

TURCK

Industrial
Automation

**KOMPAKT-
KATALOG**

**COMPACT
CATALOG**

**CATALOGUE
COMPACT**

**THE
FULL
RANGE**

**SENSORTECHNIK
SENSORS
DÉTECTEURS**

INTERFACETECHNIK

**INTERFACE
TECHNOLOGY**

**TECHNIQUE
D'INTERFAÇAGE**

**FELDBUS-
TECHNIK**

**FIELD BUS TECHNOLOGY
TECHNIQUE DU BUS
DE TERRAIN**



Sense it! Connect it! Bus it! Solve it!

Das Unternehmen

TURCK zählt zu den global führenden Unternehmensgruppen auf dem Sektor der industriellen Automation. Das Familienunternehmen erzielt mit mehr als 2800 Mitarbeitern in 27 Ländern sowie Vertretungen in weiteren 60 Staaten einen Umsatz von fast 370 Millionen Euro. Mit überlegenen Produkten und maßgeschneiderten Lösungen für die Fertigungs- und Prozessautomation setzt TURCK seit über 40 Jahren immer wieder neue Maßstäbe.

Die internationale Ausrichtung des Unternehmens begann bereits 1975 mit der Gründung der TURCK Inc. in Minneapolis, USA.

Mit modernsten Produktionsstätten in Deutschland, der Schweiz, den USA, Mexico und China ist TURCK heute in der Lage, sich weltweit den Bedingungen lokaler Märkte anzupassen. Trotz der internationalen Ausrichtung bleiben die Kernkompetenzen und die zentralen Fertigungsstätten des Unternehmens aber auch in Zukunft in Deutschland.

The Company

TURCK is one of the leading companies in the field of industrial automation. The family enterprise with more than 2800 employees in 27 countries and representations in further 60 states, achieves a turnover of nearly 370 million euros. Over 40 years TURCK has set benchmarks time and again with superior products and tailor-made solutions for factory and process automation.

The international orientation started already in 1975 with the foundation of TURCK Inc. in Minneapolis, USA.

With production sites in Germany, Switzerland, USA, Mexico and China, today TURCK has succeeded in adapting to the conditions of local markets. Despite international orientation, the company's core competence and the main production sites equipped with the latest machinery, will remain in Germany.

L'entreprise

La société TURCK est un groupement d'entreprises parmi les plus renommés dans le domaine de l'automatisation industrielle.

La société familiale, comptant plus de 2800 collaborateurs dans 27 pays et des représentations exclusives dans plus de 60 états, réalise un chiffre d'affaires de presque 370 millions d'euros. Avec des produits supérieurs et des solutions sur mesure, depuis plus de 40 ans TURCK continuera toujours à déterminer de nouveaux standards.

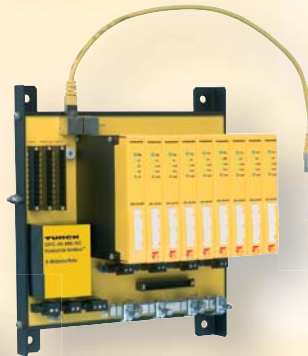
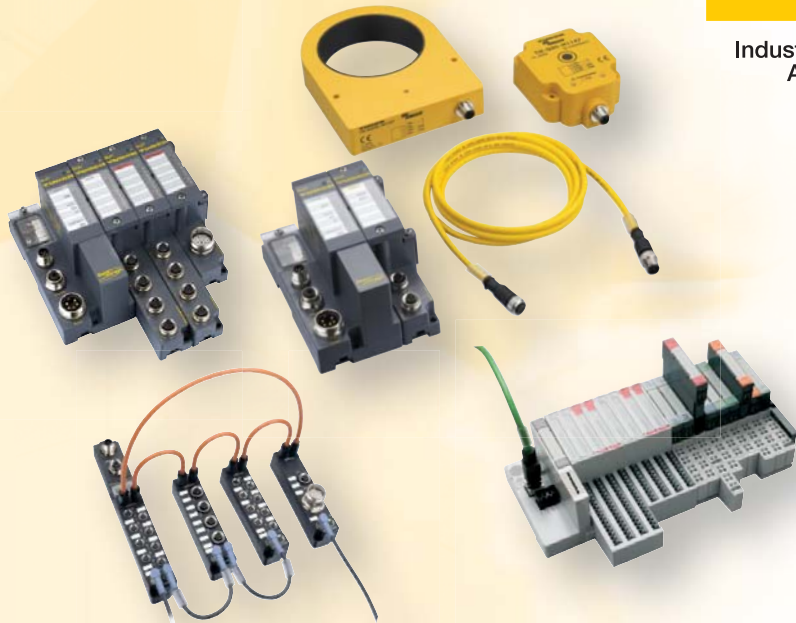
La fondation de TURCK Inc. à Minneapolis, aux Etats-Unis, en 1975, marqua l'ouverture de l'entreprise vers l'international.

Avec des points de production en Allemagne, en Suisse, aux Etats-Unis, au Mexique et en Chine, TURCK est à tout moment capable de s'adapter aux exigences du marché local. Malgré cette ouverture vers l'international, le noyau de compétences ainsi que les principaux sites de production de l'entreprise resteront à l'avenir centrés sur l'Allemagne.

Das Programm

Mit mehr als 15.000 Produkten aus der Sensor-, Interface-, Anschluss- und Feldbustechnik bietet TURCK das volle Programm für die Fertigungs- und Prozessautomation.

Beispiele für die außerordentliche Innovationsführerschaft des Unternehmens sind der induktive Faktor 1-Sensor *uprox*[®]+, das modulare IP67-I/O-System BL67 sowie *excom*[®], das kompakte Remote-I/O-System für den Ex-Bereich. Ob im Maschinen- und Anlagenbau, im Bereich Automotive, Transport & Handling, Food & Beverage oder in der Chemie- und Pharmaindustrie: Durch absolut zuverlässige Technik erhöhen TURCK-Produkte die Verfügbarkeit Ihrer Anlagen. Darüber hinaus senken sie durch effektive Standardisierung gezielt Ihre Kosten für Beschaffung, Lagerhaltung, Installation und Betriebssicherheit.



Le programme

En tant que fournisseur d'une gamme complète de plus de 15 000 détecteurs, bus de terrain et interfaces, TURCK offre aujourd'hui un portefeuille unique de solutions pour l'automatisation de process et manufacturier.

Le détecteur inductif *uprox*[®]+ facteur 1, le système E/S BL67 modulaire en IP67 et le système *excom*[®], le système E/S déporté compact pour la zone Ex sont des exemples du pouvoir d'innovation exceptionnel de l'entreprise.

Qu'il s'agisse de la construction de machines et d'installations, de l'industrie automobile, du transport & manieiment, de l'industrie agro-alimentaire ou de l'industrie chimique ou pharmaceutique: grâce à la technique robuste et absolument fiable, les produits TURCK permettent d'augmenter la disponibilité des installations. De plus, ils permettent de réduire les coûts de processus par rapport à l'approvisionnement et le stockage, l'installation et la fiabilité grâce à une standardisation efficace.



The Programme

With more than 15000 products covering the areas sensor, fieldbus, interface and connection technology, TURCK offers the full range of solutions for factory and process automation.

Examples for the outstanding innovation skills of the company are the inductive *uprox*[®] factor1 sensor, the modular I/O system BL67, *excom*[®] and the compact remote I/O system for application in explosion-hazardous areas.

Whether for machine & system engineering, automotive, transport & handling, food & beverage or the chemical and pharmaceutical industries, TURCK products optimise the system availability with robust and reliable technologies. Due to effective standardisation, the smart solutions also contribute to cost savings in purchase, inventory management, installation and maintenance.

Service & Support Service & Support Service & Support

Ein schneller Lieferservice und ein umfassendes e-Support-Angebot runden das TURCK-Programm ab.

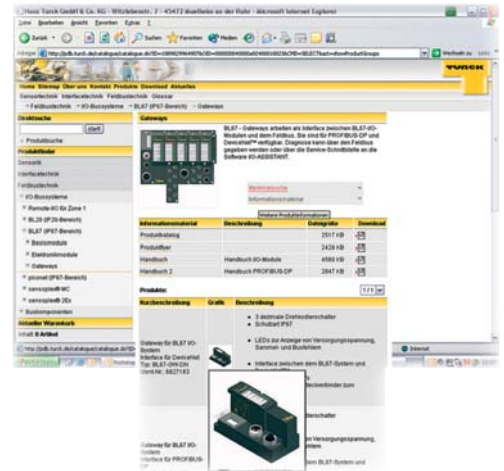
Mit der Produktdatenbank auf www.turck.com bietet Ihnen TURCK den schnellen Weg zur Lösung Ihrer Aufgabenstellung – rund um die Uhr, sieben Tage in der Woche, an jedem Ort der Welt und in sechs verschiedenen Sprachen.



A fast shipment service and a comprehensive e-support system perfectly complement the extensive TURCK programme.

With the product database, available on www.turck.com, TURCK offers a fast way to problem solving around the clock, seven days a week, at any place in this world and in six different languages.

Rund 15.000 Produkte sind klar strukturiert und vollständig dokumentiert für Sie im Internet abrufbar – mit allen Informationen, die Sie für Ihre spezielle Applikation benötigen. Überzeugen Sie sich selbst unter: www.turck.com.



Around 15000 products, clearly structured and completely documented, are ready for you to download together with all the necessary information you need. Please have a look on: www.turck.com.



Un service de transport rapide et un système e-support complètent parfaitement l'offre.

TURCK vous offre également un service rapide, efficace et gratuit, consultable 7 jours sur 7 et accessible en 6 langues différentes.

La base de données TURCK est disponible sur www.turck.com.

Vous avez donc la possibilité de télécharger la documentation complète de plus de 15 000 produits sur un site convivial et actualisé.

Sensortechnik
Sensors
Détecteurs



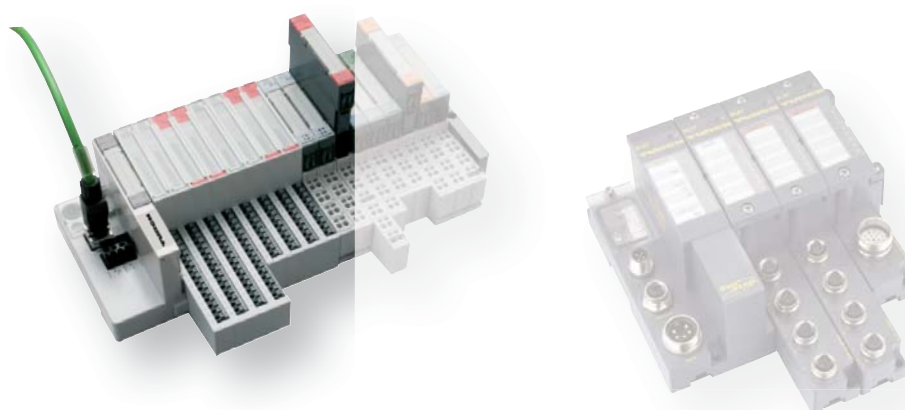
Sensortechnik/Sensors/
Détecteurs

Interfacetechnik
Interface technology
Technique d'interface



Interfacetechnik/Interface Technology/
Technique d'interface

Feldbustechnik
Fieldbus technology
Technique du bus de terrain



Feldbustechnik/Fieldbus Technology/
Technique du bus de terrain



Sensortechnik
Sensors
Détecteurs

**x = Vorzugstypen,
kurzfristig lieferbar**

TURCK-Vorzugstypen garantieren besonders kurze Lieferzeiten. In der Regel können Sie diese Produkte binnen 48 Stunden erhalten! Alle Vorzugstypen sind in diesem Katalog mit **x** gekennzeichnet.

**x = Preferred solution,
available on short notice**

TURCK preferred types guarantee particularly short delivery times. Generally these products are available within 48 hours! All preferred solutions are marked in this catalogue with an **x**.

**x = Types préférés,
livrables à bref délai**

Les types préférés de TURCK garantissent des délais de livraison particulièrement brefs. En règle générale, ces produits sont livrables dans les 48 heures! Tous les types préférés sont marqués par **x** dans ce catalogue.



Induktive Sensoren Inductive sensors Détecteurs inductifs	8
Magnetfeldsensoren Magnetic field sensors Détecteurs de champs magnétiques	190
Kapazitive Sensoren Capacitive sensors Détecteurs capacitifs	202
levelprox® – Körperschall-Füllstandssensoren levelprox® – ultrasonic level sensors levelprox® – Contrôleurs de niveau sans intrusion	244
Strömungssensoren Flow sensors Détecteurs de débit	248
Drucksensoren Pressure sensors Détecteurs de pression	274
Temperatursensoren Temperature sensors Détecteurs de température	344
Opto-Sensoren Photoelectric sensors Détecteurs photoélectriques	352
Mess- und Prüftechnik Measuring and inspection technology Techniques de mesure et de contrôle	378
Geräte für den Personenschutz Machine safety products Appareils de sécurité pour machines	380
Ultraschallsensoren Ultrasonic sensors Détecteurs ultrasoniques	382
Steckverbinder Connector systems Systèmes de connexion	390
Linearweg-Sensoren Linear displacement sensors Détecteurs de positionnement linéaire	430
BLident® – RFID-System BLident® – RFID system BLident® – Système RFID	440
Montagezubehör Mounting accessories Accessoires de montage	470

Induktive Sensoren

Induktive Näherungsschalter erfassen berührungslos und verschleißfrei metallische Objekte. Dazu benutzen sie ein hochfrequentes elektromagnetisches Wechselfeld, das mit dem Erfassungsobjekt in Wechselwirkung tritt. Bei herkömmlichen induktiven Sensoren wird dieses Feld von einem LC-Resonanzkreis mit einer Ferritkern-Spule erzeugt.

Faktor 1 neu definiert

Induktive *uprox*[®]+ Sensoren von TURCK basieren auf einem neuartigen, patentierten Multispulensystem, das die herkömmlichen gewickelten Spulen ersetzt. Dadurch erreichen die neuen *uprox*[®]+ Sensoren eine einzigartige Performance und damit entscheidende Pluspunkte für den Anwender:

- Höchster Schaltabstand: *uprox*[®]+ Sensoren bieten Faktor 1 und den größten Schaltabstand.
- Höchste Effizienz bei der Anlagenkonstruktion durch weit reichende Standardisierung: Ein *uprox*[®]+ Sensor ersetzt verschiedene „herkömmliche“ Sensortypen.
- Höchste Betriebssicherheit von Anfang an durch einfachen und sicheren Einbau.
- Höchste Flexibilität bei der Gehäuseform ermöglicht applikationsoptimierte Lösungen.

Von der Konstruktion über den Einkauf und die Produktion bis hin zum Betreiber und Instandhalter – *uprox*[®]+ Sensoren schaffen die Voraussetzungen, um Prozesse von Anfang an zu optimieren und so gezielt Kosten einzusparen.

Hohe Anlagenverfügbarkeit

Aufgrund ihres geschützten Einbaus, der hohen Magnetfeld- und EMV-Festigkeit sowie Schutzarten von IP68 bis IP69K bieten die neuen *uprox*[®]+ Sensoren auch in rauer Produktionsumgebung enorme Betriebssicherheit. Auch den besonders harten Bedingungen des Maschinenbaus und der Lebensmittelbranche halten *uprox*[®]+ Sensoren sicher stand.

Effiziente Standardisierung

Eine gezielte Variantenreduzierung zahlt sich aus: Mit wenigen *uprox*[®]+ Sensoren lässt sich die gesamte Applikationsbreite abdecken. Dadurch werden Materialengpässe vermieden, ein schneller Austausch von Geräten gesichert, die Wartung erleichtert und Prozesskosten deutlich reduziert.

Größtmögliche Flexibilität

Dank ihrer äußerst flexiblen Einbaumöglichkeiten und ihres hohen Schaltabstandes erlauben die neuen *uprox*[®]+ Sensoren weitaus größere mechanische Toleranzen als herkömmliche Standardsensoren. Ob überbündiger Einbau bei bündigen Geräten oder teilbündiger Einbau bei nichtbündigen Geräten – *uprox*[®]+ bietet maximale Planungsfreiheit bei minimalem Montageaufwand.

Inductive sensors

Inductive proximity switches are designed for wear-free and non-contact detection of metal objects. For this purpose they use a high-frequency electro-magnetic AC field that interacts with the target. On conventional inductive sensors this field is generated by an LC resonant circuit with a ferrite core coil.

Factor 1 redefined

Inductive *uprox*[®]+ sensors from TURCK are based on an innovative, patented multi-coil system which replaces the conventional coil technology. As a result the new *uprox*[®]+ sensors achieve a unique level of performance which provides the user with decisive advantages:

- Highest switching distance: *uprox*[®]+ sensors offer factor 1 and the highest switching distance.
- Maximum efficiency due to extensive standardization in system construction: One *uprox*[®]+ sensor replaces many “conventional” sensor types.
- Maximum operational safety through simple and safe mounting.
- Maximum housing flexibility for application-optimized solutions.

From construction to purchasing and manufacturing, up to operating and maintenance – *uprox*[®]+ sensors set the stage for process optimization right from the start and save costs.



Détecteurs inductifs

High system availability

Protected installation, high immunity to magnetic fields and EMC and degrees of protection from IP68 to IP69K, the new *uprox*®+ sensors provide an extremely high degree of operational reliability in harsh manufacturing environments. *uprox*®+ sensors withstand harsh conditions of machine construction and food production.

Efficient standardisation

An intelligently streamlined product line quickly pays off: The entire field of applications can be covered with just a few *uprox*®+ sensors. As a result, material bottlenecks are avoided and fast replacement of devices is assured. Maintenance is simplified and the associated process costs are reduced significantly.

Highest possible level of flexibility

Owing to their extremely flexible mounting options and their high switching distance, the new *uprox*®+ sensors accept much higher mechanical tolerances than conventional standard sensors. No matter if flush-mountable sensors are recessed or non-flush mountable sensors are partially embedded – *uprox*®+ offers the highest level of planning freedom with the minimum of mounting effort.



Les détecteurs de proximité inductifs permettent de détecter des métaux sans contact physique et sans usure en utilisant un champ magnétique variable à haute fréquence. Ce champ magnétique entre en interaction avec l'objet à détecter. Pour les détecteurs inductifs classiques, ce champ est généré par un circuit résonnant LC avec un noyau en ferrite.

Redéfinition du facteur 1

Les détecteurs *uprox*®+ de TURCK sont basés sur un nouveau système breveté de bobines multiples qui remplacent la bobine enroulée traditionnelle. Les nouveaux détecteurs *uprox*®+ permettent ainsi une performance unique et par conséquent des avantages décisifs pour l'utilisateur:

- une distance de détection maximale: les détecteurs *uprox*®+ sont des détecteurs facteur 1 et offrent une distance de détection maximale.
- une efficacité maximale dans la construction de système grâce à une standardisation approfondie: un détecteur *uprox*®+ remplace à lui seul plusieurs types de détecteurs „classiques“.
- une fiabilité opérationnelle maximale dès le départ grâce à un montage simple et sûr.
- une flexibilité maximale basée sur un large choix de styles de boîtiers pour des solutions d'application optimales.

De la construction à l'acquisition et de la production jusqu'à l'exploitant et au mécanicien – les détecteurs *uprox*®+ offrent les conditions pour optimiser les processus dès le départ et de faire des économies de coûts.

Une grande disponibilité du système

Grâce aux diverses options de montage, à l'immunité contre les champs magnétiques et à une CEM élevée, au degré de protection IP68 à IP69K, les nouveaux détecteurs *uprox*®+ offrent une fiabilité opérationnelle exceptionnelle, même dans un environnement industriel rude. Les détecteurs *uprox*®+ résistent même aux conditions d'environnement dures de la construction de machines et de l'industrie agro-alimentaire.

Une standardisation efficace

Une réduction ciblée des variantes vaut la peine: seuls quelques modèles de détecteurs *uprox*®+ sont nécessaires pour couvrir toute la gamme d'application. Des pénuries de matériel sont ainsi évitées, un remplacement d'appareils rapide assuré, la maintenance simplifiée et les coûts de processus considérablement réduits.

Une flexibilité maximale

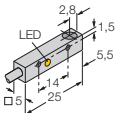
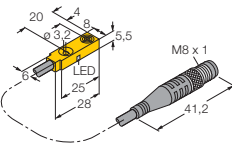



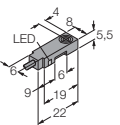






Grâce aux options de montage très flexibles et à leur distance de détection maximale, les nouveaux détecteurs *uprox*®+ offrent une tolérance mécanique beaucoup plus importante que les détecteurs traditionnels classiques. Qu'il s'agisse d'encaster des détecteurs noyables ou du blindage partiel de détecteurs non noyables, les détecteurs *uprox*®+ offrent à la fois une liberté de planification optimale et une grande facilité de montage.



Induktive Sensoren

Inductive sensors

Détecteurs inductifs

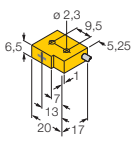




Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	Q5SE	-	0.8, 	—, PNP	10...30 VDC	100 DC, (K)
		-	0.8, 	—, NPN	10...30 VDC	100 DC, (K)
	Q5,5	-	2, 	—, PNP	10...30 VDC	150 DC, (K)
	Q5,5	-	2, 	—, PNP	10...30 VDC	150 DC, (K)
		MF immune	2, 	—, PNP	10...30 VDC	150 DC, (K)
	-	-	2, 	—, NPN	10...30 VDC	150 DC, (K)
	-	-	3.5, 	—, PNP	10...30 VDC	150 DC, (K)
	-	-	3.5, 	—, NPN	10...30 VDC	150 DC, (K)
	Q5,5K	⊕ II 2 G ⊕ II 1 D	2, 	NAMUR	nom. 8.2 VDC	-
		-	2, 	—, PNP	10...30 VDC	150 DC, (K)
	-	-	2, 	—, NPN	10...30 VDC	150 DC, (K)
	Q06	-	3, 	—, PNP	10...30 VDC	200 DC, (K)
		-	3, 	—, NPN	10...30 VDC	200 DC, (K)
	Q6,5	⊕ II 2 G ⊕ II 1 D	1, 	NAMUR	nom. 8.2 VDC	-
		MF immune	1, 	—, PNP	10...30 VDC	150 DC, (K)
	-	-	1, 	—, PNP	10...30 VDC	150 DC, (K)
	-	-	1, 	—, NPN	10...30 VDC	150 DC, (K)
	⊕ II 2 G	-	2, 	NAMUR	nom. 8.2 VDC	-
	⊕ II 1 D	-	-	-	-	-

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI0,8-Q5SE-AP6X	1619341 ✘	S001	3	-25...+70	IP67	AL	POM	PUR 2 m	-	•
BI0,8-Q5SE-AN6X	1619342 ✘	S004	3	-25...+70	IP67	AL	POM	PUR 2 m	-	•
BI2-Q5,5-AP6X-0,3-PSG3M	1613007 ✘	S002	2	-25...+85	IP67	PP	PP	PUR 0.3 m	-	•
BI2-Q5,5-AP6X	1613000 ✘	S001	2	-25...+85	IP67	PP	PP	PUR 2 m	-	•
BI2-Q5,5-AP6X/S34	1613001 ✘	S001	2	-25...+70	IP67	PP	PP	PUR 2 m	-	•
BI2-Q5,5-AN6X	1613100	S004	2	-25...+85	IP67	PP	PP	PUR 2 m	-	•
NI3,5-Q5,5-AP6X	4613601 ✘	S001	2	-25...+70	IP67	PP	PP	PUR 2 m	-	•
NI3,5-Q5,5-AN6X	4613610	S004	2	-25...+70	IP67	PP	PP	PUR 2 m	-	•
BI2-Q5,5K-Y1X	4055300	S025	2	-25...+70	IP67	PP	PP	PVC 2 m	-	•
BI2-Q5,5K-AP6X	1613015	S001	2	-25...+70	IP67	PP	PP	PUR 2 m	-	•
BI2-Q5,5K-AN6X	1613016	S004	2	-25...+70	IP67	PP	PP	PUR 2 m	-	•
BI3-Q06-AP6X2	1620100 ✘	S001	1	-25...+70	IP67	PBT	PA	PUR 2 m	•	•
BI3-Q06-AN6X2	1620150	S004	1	-25...+70	IP67	PBT	PA	PUR 2 m	•	•
BI1-Q6,5-Y1	4004000	S025	2	-25...+70	IP67	PP	PP	PVC 2 m	-	-
BI1-Q6,5-AP6/S34	4613401 ✘	S001	0.03	-25...+70	IP67	PP	PP	PUR 2 m	-	-
BI1-Q6,5-AP6	4613400 ✘	S001	2	-25...+70	IP67	PP	PP	PUR 2 m	-	-
BI1-Q6,5-AN6	4613420	S004	2	-25...+70	IP67	PP	PP	PUR 2 m	-	-
NI2-Q6,5-Y1	4004100	S025	2	-25...+70	IP67	PP	PP	PVC 2 m	-	-

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren
Inductive sensors
Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	Q6,5	MF immune	 , PNP	10...30 VDC	150 DC, (K)	
		-	2, 	 , PNP	10...30 VDC	150 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI2-Q6,5-AP6/S34	1650023 ✘	S001	0.03	-25...+70	IP67	PP	PP	PUR 2 m	-	-
NI2-Q6,5-AN6	4613520	S004	2	-25...+70	IP67	PP	PP	PUR 2 m	-	-

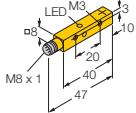







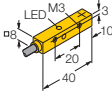





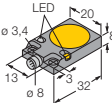















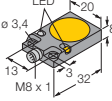



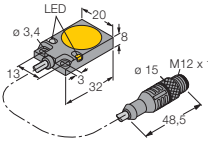





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Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	Q8SE 	uprox®+	4, 	 , PNP	10...30 VDC	150 DC, (K)
		uprox®+	4, 	 , PNP	10...30 VDC	150 DC, (K)
		uprox®+	4, 	 , NPN	10...30 VDC	150 DC, (K)
	Q8SE 	uprox®+	4, 	 , PNP	10...30 VDC	150 DC, (K)
		uprox®+	4, 	 , NPN	10...30 VDC	150 DC, (K)
	Q08 	uprox®+	8, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®+	8, 	 , NPN	10...30 VDC	200 DC, (K)
		Sn +	7, 	 , PNP	10...30 VDC	200 DC, (K)
		Sn +	7, 	 , NPN	10...30 VDC	200 DC, (K)
		uprox®	5, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	5, 	 , NPN	10...30 VDC	200 DC, (K)
		-	5, 		10...65 VDC	100 DC, (K)
	Q08 	uprox®	5, 	 , PNP	10...30 VDC	200 DC, (K)
	Q08 	uprox®	5, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	5, 	 , PNP	10...30 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI4U-Q8SE-AP6X-V1131	4635808 ✘	S002	1	-30...+85	IP68	PP	PP	-	-	•
NI4U-Q8SE-RP6X-V1131	4635820 ✘	S175	1	-30...+85	IP68	PP	PP	-	-	•
NI4U-Q8SE-AN6X-V1131	4635810	S005	1	-30...+85	IP68	PP	PP	-	-	•
NI4U-Q8SE-AP6X	4635807 ✘	S001	1	-30...+85	IP68	PP	PP	PUR 2 m	-	•
NI4U-Q8SE-AN6X	4635809 ✘	S004	1	-30...+85	IP68	PP	PP	PUR 2 m	-	•
BI8U-Q08-AP6X2-V1131	1662005 ✘	S002	0.25	-25...+70	IP68	GD-Zn	LCP	-	•	•
BI8U-Q08-AN6X2-V1131	1662008	S005	0.25	-25...+70	IP68	GD-Zn	LCP	-	•	•
BI7-Q08-VP6X2-V1141	1600902	S008	0.5	-25...+70	IP67	GD-Zn	PA	-	•	•
BI7-Q08-VN6X2-V1141	1600922	S011	0.5	-25...+70	IP67	GD-Zn	PA	-	•	•
BI5U-Q08-AP6X2-V1131	1608900 ✘	S002	0.25	-30...+85	IP67	GD-Zn	LCP	-	•	•
BI5U-Q08-AN6X2-V1131	1608910 ✘	S005	0.25	-30...+85	IP67	GD-Zn	LCP	-	•	•
BI5-Q08-AD4X-V1130	4414551	S154	1	-25...+70	IP67	GD-Zn	PA	-	-	•
BI5U-Q08-AP6X2-V2131	1608905 ✘	S002	0.25	-30...+85	IP67	GD-Zn	LCP	-	•	•
BI5U-Q08-AP6X2-0,5XOR-RS4	1608925 ✘	S002	0.25	-30...+85	IP67	GD-Zn	LCP	PVC 0.5 m	•	•
BI5U-Q08-AP6X2-1XOR-RS4	1608921 ✘	S002	0.25	-30...+85	IP67	GD-Zn	LCP	PVC 1 m	•	•

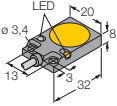


















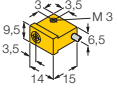



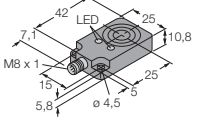





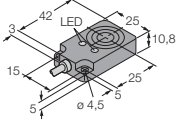





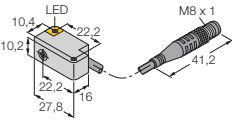



Sensortechnik/Sensors/
Détecteurs

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Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	Q08 	uprox®+	8, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®+	8, 	 , NPN	10...30 VDC	200 DC, (K)
		Sn +	7, 	 , PNP	10...30 VDC	200 DC, (K)
		Sn +	7, 	 , NPN	10...30 VDC	200 DC, (K)
		uprox®	5, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	5, 	 , NPN	10...30 VDC	200 DC, (K)
		Ex II 2 G Ex II 1 D	5, 	NAMUR	nom. 8.2 VDC	-
		-	5, 	 , PNP	10...30 VDC	200 DC, (K)
		-	5, 	 , NPN	10...30 VDC	200 DC, (K)
	Q9,5 	MF immune	2, 	 , PNP	10...30 VDC	150 DC, (K)
	Q10 	uprox®	8, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	8, 	 , NPN	10...30 VDC	200 DC, (K)
	Q10 	uprox®	8, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	8, 	 , NPN	10...30 VDC	200 DC, (K)
	Q10S 	-	2, 	 , PNP	10...30 VDC	150 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI8U-Q08-AP6X2	1662006 ✘	S001	0.25	-25...+70	IP68	GD-Zn	LCP	PUR 2 m	•	•
BI8U-Q08-AN6X2	1662007 ✘	S004	0.25	-25...+70	IP68	GD-Zn	LCP	PUR 2 m	•	•
BI7-Q08-VP6X2	1600900 ✘	S007	1	-25...+70	IP67	GD-Zn	PA	PUR 2 m	•	•
BI7-Q08-VN6X2	1600920	S010	0.5	-25...+70	IP67	GD-Zn	PA	PUR 2 m	•	•
BI5U-Q08-AP6X2	1608901 ✘	S001	0.25	-30...+85	IP67	GD-Zn	LCP	PUR 2 m	•	•
BI5U-Q08-AN6X2	1608911 ✘	S004	0.25	-30...+85	IP67	GD-Zn	LCP	PUR 2 m	•	•
BI5-Q08-Y1X	4054000 ✘	S025	1	-25...+70	IP67	GD-Zn	PA	PVC 2 m	-	•
BI5-Q08-VP6X2	16001 ✘	S007	1	-25...+70	IP67	GD-Zn	PA	PUR 2 m	•	•
BI5-Q08-VN6X2	16002 ✘	S010	1	-25...+70	IP67	GD-Zn	PA	PUR 2 m	•	•
NI2-Q9,5-AP6/S34	1650077 ✘	S001	1	-25...+70	IP67	PP	PP	PUR 2 m	-	-
BI8U-Q10-AP6X2-V1131	1662002 ✘	S002	0.25	-30...+85	IP67	PBT	PBT	-	•	•
BI8U-Q10-AN6X2-V1131	1662004	S005	0.25	-30...+85	IP67	PBT	PBT	-	•	•
BI8U-Q10-AP6X2	1662001 ✘	S001	0.25	-30...+85	IP67	PBT	PBT	PUR 2 m	•	•
BI8U-Q10-AN6X2	1662003	S004	0.25	-30...+85	IP67	PBT	PBT	PUR 2 m	•	•
BI2-Q10S-AP6X-0,2-PSG3M	1609303 ✘	S002	2	-25...+70	IP67	PP	PP	PUR 0.2 m	-	•

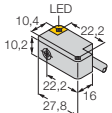












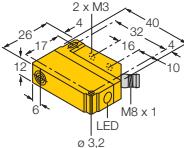







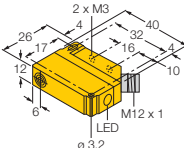





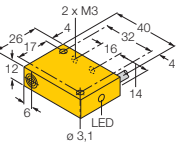





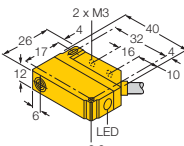









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	Q10S	Ex II 1 G Ex II 1 D, SIL2	2, 	NAMUR	nom. 8.2 VDC	-
		-	2, 	 , PNP	10...30 VDC	150 DC, K
		-	2, 	 , PNP	10...30 VDC	150 DC, K
		-	2, 	 , NPN	10...30 VDC	150 DC, K
		-	2, 	 , NPN	10...30 VDC	150 DC, K
		-	2, 		20...250 VAC 10...300 VDC	100 AC 100 mA
	Q12	uprox@+	5, 	 , PNP	10...30 VDC	200 DC, K
		uprox@+	5, 	 , PNP	10...30 VDC	200 DC, K
		uprox@+	5, 	 , NPN	10...30 VDC	200 DC, K
	Q12	uprox@+	5, 	 , PNP	10...30 VDC	200 DC, K
		uprox@+	5, 	 , NPN	10...30 VDC	200 DC, K
	Q12	-	2, 		20...250 VAC 10...300 VDC	100 AC 100 mA
		-	4, 		20...250 VAC 10...300 VDC	100 AC 100 mA
	Q12	uprox@+	5, 	 , PNP	10...30 VDC	200 DC, K
		uprox@+	5, 	 , PNP	10...30 VDC	200 DC, K
		uprox@+	5, 	 , NPN	10...30 VDC	200 DC, K
		uprox@+	5, 	 , NPN	10...30 VDC	200 DC, K

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI2-Q10S-Y1X	4012130	S025	1	-25...+70	IP67	PP	PP	PVC 2 m	-	•
BI2-Q10S-AP6X	1609360 ✘	S001	2	-25...+70	IP67	PP	PP	PUR 2 m	-	•
BI2-Q10S-VP6X	1609340	S007	2	-25...+70	IP67	PP	PP	PUR 2 m	-	•
BI2-Q10S-AN6X	1619310	S004	2	-25...+70	IP67	PP	PP	PUR 2 m	-	•
BI2-Q10S-VN6X	1609341	S010	2	-25...+70	IP67	PP	PP	PUR 2 m	-	•
BI2-Q10S-AZ31X	1309100 ✘	S092	0.06	-25...+70	IP67	PP	PP	PUR 2 m	-	•
BI5U-Q12-AP6X2-V1131	1635524 ✘	S002	1	-25...+70	IP68	PA	PA	-	•	•
BI5U-Q12-AP6X2-V1131/F2	1635528 ✘	S002	1	-25...+70	IP68	PA	PA	-	•	•
BI5U-Q12-AN6X2-V1131	1635525 ✘	S005	1	-25...+70	IP68	PA	PA	-	•	•
BI5U-Q12-AP6X2-H1141	1635526 ✘	S002	1	-25...+70	IP68	PA	PA	-	•	•
BI5U-Q12-AN6X2-H1141	1635527 ✘	S005	1	-25...+70	IP68	PA	PA	-	•	•
BI2-Q12-AZ31X	13100 ✘	S092	0.02	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI4-Q12-AZ31X	13102 ✘	S092	0.02	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI5U-Q12-AP6X2	1635522 ✘	S001	1	-25...+70	IP68	PA	PA	PUR 2 m	•	•
BI5U-Q12-VP6X2 7M	1635529	S007	1	-25...+70	IP68	PA	PA	PUR 7 m	•	•
BI5U-Q12-AN6X2	1635523 ✘	S004	1	-25...+70	IP68	PA	PA	PUR 2 m	•	•
BI5U-Q12-VN6X2 7M	1635531	S010	1	-25...+70	IP68	PA	PA	PUR 2 m	•	•

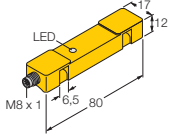



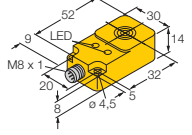






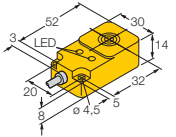









Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	TS12 	uprox®+	20, 	—, PNP	10...30 VDC	200 DC, (K)
		uprox®+	20, 	—, NPN	10...30 VDC	200 DC, (K)
	Q14 	uprox®	10, 	—, PNP	10...30 VDC	200 DC, (K)
		uprox®	10, 	—, NPN	10...30 VDC	200 DC, (K)
		—	20, 	—, PNP	10...30 VDC	200 DC, (K)
		—	20, 	—, NPN	10...30 VDC	200 DC, (K)
		e1, load dump T +85°C T -40°C 100 V/m, 100 mA BCI, Sn +	10, 	—, PNP	8.4...30 VDC	200 DC, (K)
	Q14 	uprox®	10, 	—, PNP	10...30 VDC	200 DC, (K)
		uprox®	10, 	—, NPN	10...30 VDC	200 DC, (K)
		⊕ II 2 G ⊕ II 1 D	10, 	NAMUR	nom. 8.2 VDC	—
		—	10, 	—	20...250 VAC 10...300 VDC	100 AC 100 DC, (K)
		MF immune	10, 	—	20...250 VAC 10...300 VDC	100 AC 100 DC, (K)
		—	20, 	—, PNP	10...30 VDC	200 DC, (K)
		—	20, 	—, NPN	10...30 VDC	200 DC, (K)
		e1, load dump T +85°C T -40°C 100 V/m, 100 mA BCI, Sn +	10, 	—, PNP	8.4...65 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI20U-TS12-AP6X2-V1131	1646640 ✘	S002	0.008	-25...+70	IP68	PBT	-	-	•	•
NI20U-TS12-AN6X2-V1131	1625822	S005	0.008	-25...+70	IP68	PBT	-	-	•	•
BI10U-Q14-AP6X2-V1131	1608500 ✘	S002	0.25	-30...+85	IP67	PBT	PBT	-	•	•
BI10U-Q14-AN6X2-V1131	1608510 ✘	S005	0.25	-30...+85	IP67	PBT	PBT	-	•	•
NI20-Q14-AP6X2-V1131	4690210 ✘	S002	0.25	-25...+70	IP67	PBT	PBT	-	•	•
NI20-Q14-AN6X2-V1131	4690221	S005	0.25	-25...+70	IP67	PBT	PBT	-	•	•
BI10-Q14-AP68X2LD-V1131	1584030	S002	0.5	-40...+85	IP68 / IP69K	PBT	PBT	TPE	•	•
BI10U-Q14-AP6X2	1608700 ✘	S001	0.25	-30...+85	IP67	PBT	PBT	PUR 2 m	•	•
BI10U-Q14-AN6X2	1608710 ✘	S004	0.25	-30...+85	IP67	PBT	PBT	PUR 2 m	•	•
BI10-Q14-Y1X	1608730	S025	1	-25...+70	IP67	PBT	PBT	PUR 2 m	-	•
BI10-Q14-ADZ32X2	4256220	S092	0.02	-25...+70	IP67	PBT	PBT	PUR 2 m	•	•
BI10-Q14-ADZ32X2/S34	4256225	S092	0.02	-25...+70	IP67	PBT	PBT	PUR 2 m	•	•
NI20-Q14-AP6X2	4690205 ✘	S001	0.25	-25...+70	IP67	PBT	PBT	PUR 2 m	•	•
NI20-Q14-AN6X2	4690220	S004	0.25	-25...+70	IP67	PBT	PBT	PUR 2 m	•	•
BI10-Q14-AP45X2LD	1584031 ✘	S001	0.5	-40...+85	IP68 / IP69K	PBT	PBT	TPE 2 m	•	•

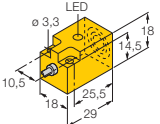

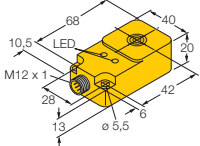







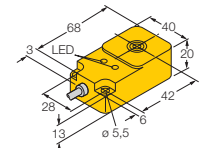







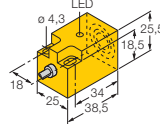



Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
	Q18	-	-	-	-		
		-	-	-	-		
	Q20	e1, load dump T +85°C T -40°C 100 V/m, 100 mA BCI Sn +	20, 	-	-		
		uprox®	15, 	-	-		
		uprox®	15, 	-	-		
		Ex II 2 G Ex II 1 D	15, 	NAMUR	nom. 8.2 VDC	-	
		-	25, 	-	-		
		-	25, 	-	-		
		-	-	-	-	-	
	Q20	e1, load dump T +85°C T -40°C 100 V/m, 100 mA BCI Sn +	20, 	-	-		
		uprox®	15, 	-	-		
		uprox®	15, 	-	-		
		Ex II 2 G Ex II 1 D	15, 	NAMUR	nom. 8.2 VDC	-	
		-	25, 	-	-		
		-	25, 	-	-		
		-	-	-	-	-	
	Q25	-	10, 	-	-		
		-	10, 	-	-		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI5-Q18-AP6X	4614606 ✘	S001	0.5	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•
NI5-Q18-AN6X	4614607	S004	0.5	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•
BI20-Q20-AP45X2LD-H1141	1584040 ✘	S002	0.5	-40...+85	IP68 / IP69K	PBT	PBT	-	•	•
BI15U-Q20-AP6X2-H1141	1608600 ✘	S002	0.25	-30...+85	IP67	PBT	PBT	-	•	•
BI15U-Q20-AN6X2-H1141	1608610	S005	0.25	-30...+85	IP67	PBT	PBT	-	•	•
BI15-Q20-Y1X-H1141	1080025	S026	1	-25...+70	IP67	PBT	PBT	-	-	•
NI25-Q20-AP6X2-H1141	1602702 ✘	S002	0.25	-25...+70	IP67	PBT	PBT	-	•	•
NI25-Q20-AN6X2-H1141	1602802	S005	0.25	-25...+70	IP67	PBT	PBT	-	•	•
BI20-Q20-AP45X2LD	1584041 ✘	S001	0.5	-40...+85	IP68 / IP69K	PBT	PBT	TPE 2 m	•	•
BI15U-Q20-AP6X2	1608800 ✘	S001	0.25	-30...+85	IP67	PBT	PBT	PUR 2 m	•	•
BI15U-Q20-AN6X2	1608810 ✘	S004	0.25	-30...+85	IP67	PBT	PBT	PUR 2 m	•	•
BI15-Q20-Y1X	1080020	S025	1	-25...+70	IP67	PBT	PBT	PUR 2 m	-	•
NI25-Q20-AP6X2	1602700 ✘	S001	0.25	-25...+70	IP67	PBT	PBT	PUR 2 m	•	•
NI25-Q20-AN6X2	1602800	S004	0.25	-25...+70	IP67	PBT	PBT	PUR 2 m	•	•
NI10-Q25-AP6X	4652225 ✘	S001	2	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•
NI10-Q25-AN6X	4652330	S004	2	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•

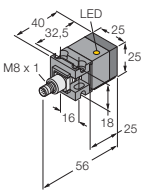






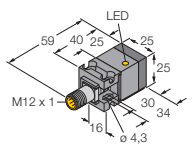






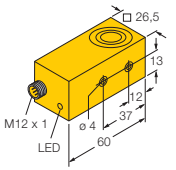


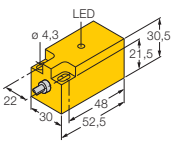




Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
 <p>CA25</p> <p>aktive Fläche in 5 Richtungen positionierbar/variable orientation of active face in 5 directions/ Face active peut être positionnée en 5 directions</p>	 harsh uprox®	10, 	 , PNP	10...30 VDC	200 DC, (K)	
	 harsh uprox®	15, 	 , PNP	10...30 VDC	200 DC, (K)	
 <p>CA25</p> <p>aktive Fläche in 5 Richtungen positionierbar/variable orientation of active face in 5 directions/ Face active peut être positionnée en 5 directions</p>	 harsh uprox®	10, 	 , PNP	10...30 VDC	200 DC, (K)	
	 harsh uprox®	15, 	 , PNP	10...30 VDC	200 DC, (K)	
 <p>Q26</p>	–	15, 	 , PNP	10...65 VDC	200 DC, (K)	
 <p>Q30</p>	–	15, 	 , PNP	10...30 VDC	200 DC, (K)	
	–	15, 	 , NPN	10...30 VDC	200 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI10U-CA25-AP6X2-V1131	1625632 ✘	S002	0.25	-30...+85	IP67	GD-CuZn	DURO	-	•	•
NI15U-CA25-AP6X2-V1131	1625642	S002	0.25	-30...+85	IP67	GD-CuZn	DURO	-	•	•
BI10U-CA25-AP6X2-H1141	1625631 ✘	S002	0.25	-30...+85	IP67	GD-CuZn	DURO	-	•	•
NI15U-CA25-AP6X2-H1141	1625641 ✘	S002	0.25	-30...+85	IP67	GD-CuZn	DURO	-	•	•
BI10S-Q26-AP4X-H1141/S34	15633 ✘	S002	0.2	-25...+70	IP67	PBT	PBT	-	-	•
NI15-Q30-AP6X	4659325 ✘	S001	2	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•
NI15-Q30-AN6X	4659330	S004	2	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•

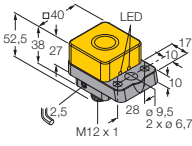



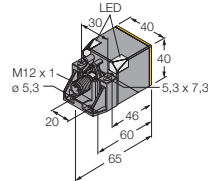





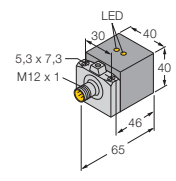





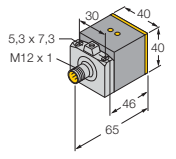































Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	Q40	uprox®+	22, 	 , PNP	10...30 VDC	200 DC, (K)
						
 <p>aktive Fläche in 5 Richtungen positionierbar/variable orientation of active face in 5 directions/ Face active peut être positionnée en 5 directions</p>	QV40	uprox®+	20, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®+	50, 	 , PNP	10...30 VDC	200 DC, (K)
 <p>aktive Fläche in 5 Richtungen positionierbar/variable orientation of active face in 5 directions/ Face active peut être positionnée en 5 directions</p>	CA40	harsh uprox®	20, 	 , PNP	10...30 VDC	200 DC, (K)
		harsh uprox®	20, 	 , NPN	10...30 VDC	200 DC, (K)
 <p>aktive Fläche in 5 Richtungen positionierbar/variable orientation of active face in 5 directions/ Face active peut être positionnée en 5 directions</p>	CK40	uprox®+	20, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®+	20, 	 , PNP	10...65 VDC	200 DC, (K)
	uprox®+	20, 	 , NPN	10...30 VDC	200 DC, (K)	
	uprox®+	20, 	 , NPN	10...65 VDC	200 DC, (K)	
	uprox®	15, 	 , PNP	10...30 VDC	200 DC, (K)	
	uprox®	15, 	 , PNP	10...65 VDC	200 DC, (K)	
	uprox®	15, 	 , NPN	10...30 VDC	200 DC, (K)	
	-	15, 	 , PNP	10...30 VDC	200 DC, (K)	
	-	15, 	 , NPN	10...30 VDC	200 DC, (K)	
	Sn +	35, 	 , PNP	10...30 VDC	200 DC, (K)	
	uprox®	25, 	 , PNP	10...30 VDC	200 DC, (K)	
	uprox®	25, 	 , PNP	10...65 VDC	200 DC, (K)	
	uprox®	25, 	 , NPN	10...30 VDC	200 DC, (K)	
	-	20, 	 , PNP	10...30 VDC	200 DC, (K)	
-	20, 	 , NPN	10...30 VDC	200 DC, (K)		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI22U-Q40-AP6X2-H1141	4690229 ✘	S002	0.25	0...+70	IP68	PBT	PBT	-	•	•
BI20U-QV40-AP6X2-H1141	1625853 ✘	S002	0.25	0...+70	IP68	PBT	PA	-	••	••
NI50U-QV40-AP6X2-H1141	1627245 ✘	S002	0.25	-30...+85	IP68	PBT	PA	-	••	••
BI20U-CA40-AP6X2-H1141	1627200 ✘	S002	0.25	0...+70	IP67	GD-AI	DURO	-	•	•
BI20U-CA40-AN6X2-H1141	1627300	S005	0.25	0...+70	IP67	GD-AI	DURO	-	•	•
BI20U-CK40-AP6X2-H1141	1627233 ✘	S002	0.25	0...+70	IP68	PBT	PA-X	-	•	•
BI20U-CK40-VP4X2-H1141	1627216 ✘	S008	0.25	0...+70	IP68	PBT	PA-X	-	•	•
BI20U-CK40-AN6X2-H1141	1627231	S005	0.25	0...+70	IP68	PBT	PA-X	-	•	•
BI20U-CK40-VN4X2-H1141	1568814	S011	0.25	0...+70	IP68	PBT	PA-X	-	•	•
BI15U-CK40-AP6X2-H1141	1625600 ✘	S002	0.25	-30...+85	IP68	PBT	PA-X	-	•	•
BI15U-CK40-VP4X2-H1141	1568801 ✘	S008	0.25	-30...+85	IP68	PBT	PA-X	-	•	•
BI15U-CK40-AN6X2-H1141	1625610	S005	0.25	-30...+85	IP68	PBT	PA-X	-	•	•
BI15-CK40-AP6X2-H1141	16250	S002	0.15	-25...+70	IP67	PBT	PA-X	-	•	•
BI15-CK40-AN6X2-H1141	16251 ✘	S005	0.15	-25...+70	IP67	PBT	PA-X	-	•	•
NI35-CK40-AP6X2-H1141	1626400 ✘	S002	0.15	-25...+70	IP67	PBT	PA-X	-	•	•
NI25U-CK40-AP6X2-H1141	1625700 ✘	S002	0.25	-30...+85	IP68	PBT	PA-X	-	•	•
NI25U-CK40-VP4X2-H1141	1568803 ✘	S008	0.25	-30...+85	IP68	PBT	PA-X	-	•	•
NI25U-CK40-AN6X2-H1141	1625710	S005	0.25	-30...+85	IP68	PBT	PA-X	-	•	•
NI20-CK40-AP6X2-H1141	16252 ✘	S002	0.15	-25...+70	IP67	PBT	PA-X	-	•	•
NI20-CK40-AN6X2-H1141	16253 ✘	S005	0.15	-25...+70	IP67	PBT	PA-X	-	•	•

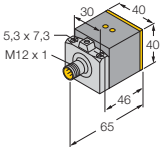




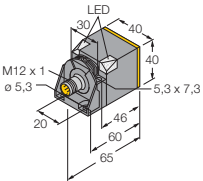













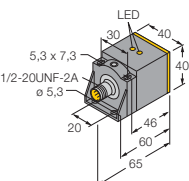

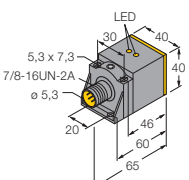

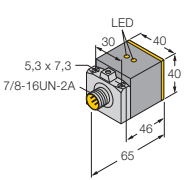

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform	Merkmale	Schaltabstand S_n	Ausgang	Betriebsspannung U_B	Betriebsstrom I_e			
Dimensions/Housing style	Features	Sensing range S_n	Output	Operational voltage U_B	Operational current I_e			
Dimensions/Format	Caractéristiques	Distance de commutation S_n [mm]	Sortie	Tension de service U_B [V]	Courant de service I_e [mA]			
 <p>CK40</p> <p>aktive Fläche in 5 Richtungen positionierbar/variable orientation of active face in 5 directions/ Face active peut être positionnée en 5 directions</p>	Ex II 2 G Ex II 1 D - Ex II 2 G Ex II 1 D -	15,  15,  20,  20, 	NAMUR - NAMUR -	nom. 8.2 VDC 10...65 VDC nom. 8.2 VDC 10...65 VDC	- 100 DC, K - 100 DC, K			
	 <p>CK40</p> <p>aktive Fläche in 5 Richtungen positionierbar/variable orientation of active face in 5 directions/ Face active peut être positionnée en 5 directions</p>	aprox@+ aprox@+ aprox@+ aprox@+ aprox@+ Ex II 3 G, Ex II 3 D aprox@+ aprox@+ aprox@+ aprox@+ aprox@+ aprox@+	30,  30,  15,  50,  50,  50,  50,  50,  50,  40,  35,  35,  35, 	- , PNP - , NPN - - , PNP - , PNP - , PNP - , NPN - , NPN - , PNP - , PNP - , NPN - -	10...30 VDC 10...30 VDC 10...65 VDC 10...30 VDC 10...65 VDC 10...65 VDC 10...30 VDC 10...65 VDC 10...30 VDC 10...30 VDC 10...30 VDC 10...65 VDC	200 DC, K 200 DC, K 100 DC, K 200 DC, K 200 DC, K 200 DC, K 200 DC, K 200 DC, K 200 DC, K 200 DC, K 200 DC, K 100 DC, K		
		 <p>CK40</p> <p>aktive Fläche in 5 Richtungen positionierbar/variable orientation of active face in 5 directions/ Face active peut être positionnée en 5 directions</p>	aprox@ -	35,  -	- -	20...250 VAC 10...300 VDC	400 AC 300 DC, K	
			 <p>CK40</p> <p>aktive Fläche in 5 Richtungen positionierbar/variable orientation of active face in 5 directions/ Face active peut être positionnée en 5 directions</p>	aprox@ -	35,  -	- -	20...250 VAC 10...300 VDC	400 AC 300 DC, K
 <p>CK40</p> <p>aktive Fläche in 5 Richtungen positionierbar/variable orientation of active face in 5 directions/ Face active peut être positionnée en 5 directions</p>		aprox@ -		15,  -	- -	20...250 VAC 10...300 VDC	400 AC 300 DC, K	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI15-CK40-Y1X-H1141	4065000	S026	0.15	-25...+70	IP67	PBT	PA-X	-	-	•
BI15-CK40-AD4X-H1141	44650 ✘	S014	0.15	-25...+70	IP67	PBT	PA-X	-	-	•
NI20-CK40-Y1X-H1141	4065200	S026	0.15	-25...+70	IP67	PBT	PA-X	-	-	•
NI20-CK40-AD4X-H1141	44652	S014	0.2	-25...+70	IP67	PBT	PA-X	-	-	•
BI30U-CK40-AP6X2-H1141	1625829 ✘	S002	0.25	-10...+60	IP68	PBT	PA-X	-	••	••
BI30U-CK40-AN6X2-H1141	1625820	S005	0.25	-10...+60	IP68	PBT	PA-X	-	••	••
BI15U-CK40-AD4X-H1144	4280032 ✘	S179	0.01	-25...+70	IP68	PBT	PA-X	-	••	••
NI50U-CK40-AP6X2-H1141	1625837 ✘	S002	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI50U-CK40-VP4X2-H1141	1538302 ✘	S008	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI50U-CK40-VP4X2-H1141/3GD	1514120	S008	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI50U-CK40-AN6X2-H1141	1625823 ✘	S005	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI50U-CK40-VN4X2-H1141	1625806	S011	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI40U-CK40-AP6X2-H1141	1623641 ✘	S002	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI35U-CK40-AP6X2-H1141	1625800 ✘	S002	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI35U-CK40-AN6X2-H1141	1625810 ✘	S005	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI35U-CK40-AD4X-H1144	4280232 ✘	S179	0.01	-25...+70	IP68	PBT	PA-X	-	••	••
NI35U-CK40-ADZ30X2-B3131	4280430 ✘	S152	0.06	-30...+85	IP68	PBT	PA-X	-	•	•
NI35U-CK40-ADZ30X2-B1131	4280410 ✘	S152	0.06	-30...+85	IP68	PBT	PA-X	-	•	•
BI15U-CK40-ADZ30X2-B1131	4280010	S152	0.06	-30...+85	IP68	PBT	PA-X	-	•	•

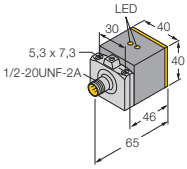


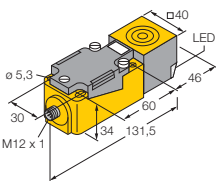






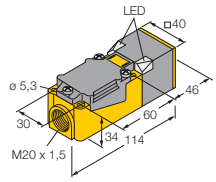



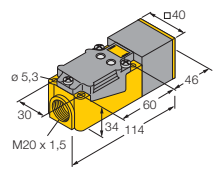















Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
 <p>CK40</p> <p>aktive Fläche in 5 Richtungen positionierbar/variable orientation of active face in 5 directions/ Face active peut être positionnée en 5 directions</p>	uprox®	15, 		20...250 VAC 10...300 VDC	400 AC 300 DC, (K)	
 <p>CP40</p> <p>aktive Fläche in 9 Richtungen positionierbar/variable orientation of active face in 9 directions/ Face active peut être positionnée en 9 directions</p>	uprox®	15, 	 , PNP	10...65 VDC	200 DC, (K)	
	uprox®+	50, 		10...30 VDC	200 DC, (K)	
	uprox®	40, 	 , PNP	10...65 VDC	200 DC, (K)	
 <p>CP40</p> <p>aktive Fläche in 9 Richtungen positionierbar/variable orientation of active face in 9 directions/ Face active peut être positionnée en 9 directions</p>	uprox®	15, 	 , NPN	10...30 VDC	200 DC, (K)	
	uprox®	15, 	program.	20...250 VAC 10...300 VDC	400 AC 300 DC, (K)	
 <p>CP40</p> <p>aktive Fläche in 9 Richtungen positionierbar/variable orientation of active face in 9 directions/ Face active peut être positionnée en 9 directions</p>	-	15, 	 , PNP	10...30 VDC	200 DC, (K)	
	-	15, 	 , PNP	10...65 VDC	200 DC, (K)	
	T -40°C	15, 	 , PNP	10...65 VDC	200 DC, (K)	
	T +100°C	15, 	 , PNP	10...65 VDC	200 DC, (K)	
	-	15, 		10...30 VDC	200 DC, (K)	
	-	15, 	 , NPN	10...65 VDC	200 DC, (K)	
	-	15, 	program.	20...250 VAC 10...300 VDC	400 AC 300 mA	
	T -40°C	15, 	program.	20...250 VAC 10...300 VDC	400 AC 300 mA	
T +100°C	15, 	program.	20...250 VAC 10...300 VDC	400 AC 300 mA		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI15U-CK40-ADZ30X2-B3131	4280030 ✕	S152	0.06	-30...+85	IP68	PBT	PA-X	-	•	•
BI15U-CP40-VP4X2-H1141	1540502 ✕	S008	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI50U-CP40-AP6X2-H1141	1625835 ✕	S002	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI40U-CP40-VP4X2-H1141	1540602 ✕	S008	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
BI15U-CP40-AN6X2	1623510	S006	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
BI15U-CP40-FDZ30X2	4280600 ✕	S016	0.06	-30...+85	IP68	PBT	PA-X	-	••	••
BI15-CP40-AP6X2	16023 ✕	S003	0.15	-25...+70	IP67	PBT	PBT	-	•	•
BI15-CP40-VP4X2	15690 ✕	S009	0.15	-25...+70	IP67	PBT	PBT	-	•	•
BI15-CP40-VP4X2/S97	15058 ✕	S009	0.15	-40...+70	IP67	PBT	PBT	-	•	•
BI15-CP40-VP4X2/S100	15045 ✕	S009	0.15	-25...+100	IP67	PBT	PBT	-	•	•
BI15-CP40-AN6X2	16223 ✕	S006	0.15	-25...+70	IP67	PBT	PBT	-	•	•
BI15-CP40-VN4X2	15790 ✕	S012	0.15	-25...+70	IP67	PBT	PBT	-	•	•
BI15-CP40-FZ3X2	13400 ✕	S016	0.02	-25...+70	IP67	PBT	PBT	-	•	•
BI15-CP40-FZ3X2/S97	1341015	S016	0.02	-40...+70	IP67	PBT	PBT	-	•	•
BI15-CP40-FZ3X2/S100	13440 ✕	S016	0.02	-25...+100	IP67	PBT	PBT	-	•	•

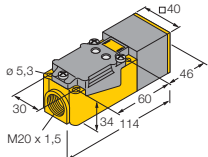


























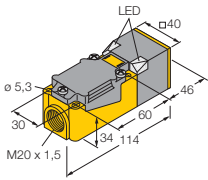























Sensortechnik/Sensors/
Détecteurs

✕ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
 <p>aktive Fläche in 9 Richtungen positionierbar/variable orientation of active face in 9 directions/ Face active peut être positionnée en 9 directions</p>	CP40	uprox®	40, 	program.	20...250 VAC 10...300 VDC	400 AC 300 DC, (K)
	-	35, 	 , PNP		10...65 VDC	200 DC, (K)
	-	35, 	 , NPN		10...65 VDC	200 DC, (K)
	-	35, 	program.		20...250 VAC 10...300 VDC	400 AC 300 mA
	-	20, 	 , PNP		10...30 VDC	200 DC, (K)
	-	20, 	 , PNP		10...65 VDC	200 DC, (K)
	T -40°C	20, 	 , PNP		10...65 VDC	200 DC, (K)
	T +100°C	20, 	 , PNP		10...65 VDC	200 DC, (K)
	selective NF	20, 	 , PNP		10...65 VDC	200 DC, (K)
	-	20, 	 , NPN		10...30 VDC	200 DC, (K)
	-	20, 	 , NPN		10...65 VDC	200 DC, (K)
	selective NF	20, 	 , NPN		10...65 VDC	200 DC, (K)
	-	20, 	program.		20...250 VAC 10...300 VDC	400 AC 300 mA
	T -40°C	20, 	program.		20...250 VAC 10...300 VDC	400 AC 300 mA
	T +100°C	20, 	program.		20...250 VAC 10...300 VDC	400 AC 300 mA
	selective NF	20, 	program.		20...250 VAC	400 AC
 <p>aktive Fläche in 9 Richtungen positionierbar/variable orientation of active face in 9 directions/ Face active peut être positionnée en 9 directions</p>	CP40	uprox®+	30, 	 , NPN	10...30 VDC	200 DC, (K)
	uprox®+	20, 	 , PNP		10...30 VDC	200 DC, (K)
	 II 3 D	20, 	 , PNP		10...30 VDC	200 DC, (K)
	uprox®+	20, 	 , NPN		10...30 VDC	200 DC, (K)
	uprox®+	20, 	 , NPN		10...65 VDC	200 DC, (K)
	uprox®+	50, 	 , PNP		10...30 VDC	200 DC, (K)
	uprox®+	50, 	 , PNP		10...65 VDC	200 DC, (K)
	uprox®+	50, 	 , NPN		10...30 VDC	200 DC, (K)
	uprox®+	50, 	 , NPN		10...65 VDC	200 DC, (K)
	uprox®	40, 	 , PNP		10...65 VDC	200 DC, (K)
	uprox®	40, 	 , NPN		10...65 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
NI40U-CP40-FDZ30X2	4280800 ✘	S016	0.06	-30...+85	IP68	PBT	PA-X	-	•	•
NI35-CP40-VP4X2	15694 ✘	S009	0.15	-25...+70	IP67	PBT	PBT	-	•	•
NI35-CP40-VN4X2	15794 ✘	S012	0.15	-25...+70	IP67	PBT	PBT	-	•	•
NI35-CP40-FZ3X2	13403 ✘	S016	0.02	-25...+70	IP67	PBT	PBT	-	•	•
NI20-CP40-AP6X2	16024 ✘	S003	0.15	-25...+70	IP67	PBT	PBT	-	•	•
NI20-CP40-VP4X2	15691 ✘	S009	0.15	-25...+70	IP67	PBT	PBT	-	•	•
NI20-CP40-VP4X2/S97	1569101	S009	0.15	-40...+70	IP67	PBT	PBT	-	•	•
NI20-CP40-VP4X2/S100	15046 ✘	S009	0.15	-25...+100	IP67	PBT	PBT	-	•	•
NI20NF-CP40-VP4X2	15684 ✘	S009	0.1	0...+60	IP67	PBT	PBT	-	•	•
NI20-CP40-AN6X2	16224 ✘	S006	0.15	-25...+70	IP67	PBT	PBT	-	•	•
NI20-CP40-VN4X2	15791 ✘	S012	0.15	-25...+70	IP67	PBT	PBT	-	•	•
NI20NF-CP40-VN4X2	15784 ✘	S012	0.1	0...+60	IP67	PBT	PBT	-	•	•
NI20-CP40-FZ3X2	13401 ✘	S016	0.02	-25...+70	IP67	PBT	PBT	-	•	•
NI20-CP40-FZ3X2/S97	1340123	S016	0.02	-40...+70	IP67	PBT	PBT	-	•	•
NI20-CP40-FZ3X2/S100	13441 ✘	S016	0.02	-25...+100	IP67	PBT	PBT	-	•	•
NI20NF-CP40-FZ3X2	13284 ✘	S016	0.02	0...+60	IP67	PBT	PBT	-	•	•
BI30U-CP40-AN6X2	1625102	S006	0.25	-10...+60	IP68	PBT	PA-X	-	••	••
BI20U-CP40-AP6X2	1627232 ✘	S003	0.25	0...+70	IP68	PBT	PA-X	-	••	••
BI20U-CP40-AP6X2/3D	1627236 ✘	S003	0.25	0...+70	IP68	PBT	PA-X	-	••	••
BI20U-CP40-AN6X2	1627230	S006	0.25	0...+70	IP68	PBT	PA-X	-	••	••
BI20U-CP40-VN4X2	1627237	S012	0.25	0...+70	IP68	PBT	PA-X	-	••	••
NI50U-CP40-AP6X2	1625831 ✘	S003	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI50U-CP40-VP4X2	1538303 ✘	S009	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI50U-CP40-AN6X2	1625846 ✘	S006	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI50U-CP40-VN4X2	1625847	S012	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI40U-CP40-VP4X2	1540600 ✘	S009	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI40U-CP40-VN4X2	1540610 ✘	S012	0.25	-30...+85	IP68	PBT	PA-X	-	••	••

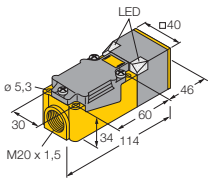













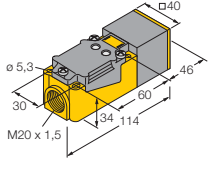













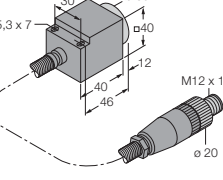

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
 <p>CP40</p> <p>aktive Fläche in 9 Richtungen positionierbar/variable orientation of active face in 9 directions/ Face active peut être positionnée en 9 directions</p>	<p>uprox®+</p> 	30, 	 , PNP	10...30 VDC	200 DC, (K)	
	uprox®+	20, 	 , PNP	10...65 VDC	200 DC, (K)	
	uprox®	15, 	 , PNP	10...30 VDC	200 DC, (K)	
	uprox®	15, 	 , PNP	10...65 VDC	200 DC, (K)	
	uprox®	40, 	 , PNP	10...30 VDC	200 DC, (K)	
	uprox®	40, 	 , NPN	10...30 VDC	200 DC, (K)	
 <p>CP40</p> <p>aktive Fläche in 9 Richtungen positionierbar/variable orientation of active face in 9 directions/ Face active peut être positionnée en 9 directions</p>	<p>II 2 G</p> <p>II 1 D, $S_n +$</p> 	20, 	NAMUR	nom. 8.2 VDC	-	
	II 2 G	15, 	NAMUR	nom. 8.2 VDC	-	
	II 1 D					
	II 2 G	15, 	NAMUR	nom. 8.2 VDC	-	
	II 1 D					
	T -40°C					
	II 2 G	15, 	NAMUR	nom. 8.2 VDC	-	
	II 1 D					
	-	15, 		10...65 VDC	100 DC, (K)	
	II 2 G	35, 	NAMUR	nom. 8.2 VDC	-	
	II 1 D					
	T +100°C					
	II 2 G	20, 	NAMUR	nom. 8.2 VDC	-	
	II 1 D					
II 2 G	20, 	NAMUR	nom. 8.2 VDC	-		
II 1 D						
T -40°C						
II 2 G	20, 	NAMUR	nom. 8.2 VDC	-		
II 1 D						
T +100°C						
-	20, 		10...65 VDC	100 DC, (K)		
 <p>CQ40</p>	T +250°C	25, 	-	-	-	

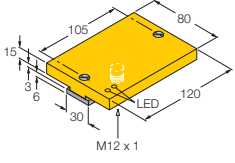



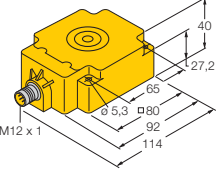

















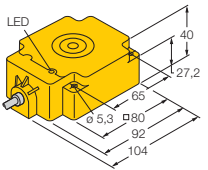







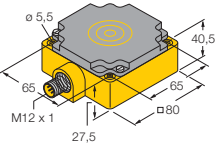




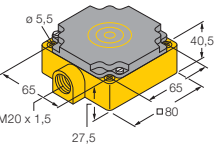







Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI30U-CP40-AP6X2	1625830 ✘	S003	0.25	-10...+60	IP68	PBT	PA-X	-	••	••
BI20U-CP40-VP4X2	1627240 ✘	S009	0.25	0...+70	IP68	PBT	PA-X	-	••	••
BI15U-CP40-AP6X2	1623500 ✘	S003	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
BI15U-CP40-VP4X2	1540500 ✘	S009	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI40U-CP40-AP6X2	1623600 ✘	S003	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
NI40U-CP40-AN6X2	1623610 ✘	S006	0.25	-30...+85	IP68	PBT	PA-X	-	••	••
BI20-CP40-Y1X	1011123 ✘	S027	0.15	-25...+70	IP67	PBT	PBT	-	-	•
BI15-CP40-Y1X	10110 ✘	S027	0.15	-25...+70	IP67	PBT	PBT	-	-	•
BI15-CP40-Y1X/S97	10397	S027	0.15	-40...+70	IP67	PBT	PBT	-	-	•
BI15-CP40-Y1X/S100	10396	S027	0.15	-25...+100	IP67	PBT	PBT	-	-	•
BI15-CP40-AD4X	44660 ✘	S015	0.15	-25...+70	IP67	PBT	PBT	-	-	•
NI35-CP40-Y1X/S100	1011125 ✘	S027	0.08	-25...+100	IP67	PBT	PBT	-	-	•
NI20-CP40-Y1X	10111 ✘	S027	0.15	-25...+70	IP67	PBT	PBT	-	-	•
NI20-CP40-Y1X/S97	10432	S027	0.15	-40...+70	IP67	PBT	PBT	-	-	•
NI20-CP40-Y1X/S100	1011121	S027	0.15	-25...+100	IP67	PBT	PBT	-	-	•
NI20-CP40-AD4X	44661 ✘	S015	0.15	-25...+70	IP67	PBT	PBT	-	-	•
NI25-CQP40/S1102 5M	1602409 ✘	S173	-	0...+250	IP60	AL	PEEK	PTFE 5 m	-	-

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
	QF15	-	30, 	 , PNP	10...30 VDC	200 DC, (K)	
							
	Q80	uprox®+	50, 	 , PNP	10...30 VDC	200 DC, (K)	
		uprox®+	50, 	 , PNP	10...65 VDC	200 DC, (K)	
		 II 3 G	50, 	 , PNP	10...65 VDC	200 DC, (K)	
		 II 3 D					
		uprox®+	50, 	 , NPN	10...30 VDC	200 DC, (K)	
		uprox®+	50, 	 , NPN	10...65 VDC	200 DC, (K)	
		uprox®+	70, 	 , PNP	10...30 VDC	200 DC, (K)	
		uprox®+	70, 	 , PNP	10...65 VDC	200 DC, (K)	
	Q80	 II 2 G	50, 	NAMUR	nom. 8.2 VDC	-	
		 II 1 D					
	$S_n +$						
	 II 2 G	60, 	NAMUR	nom. 8.2 VDC	-		
	 II 1 D						
	CP80	-	40, 	 , PNP	10...65 VDC	200 DC, (K)	
		uprox®	75, 	 , PNP	10...65 VDC	200 DC, (K)	
	CP80	 II 2 G	40, 	NAMUR	nom. 8.2 VDC	-	
		 II 1 D					
		 II 2 G	40, 	NAMUR	nom. 8.2 VDC	-	
		 II 1 D					
	T -40°C						

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED
BI30-QF15-AP6X2-H1141	1625100 ✘	S002	0.25	-25...+70	IP68	PBT	PBT	-	-	-
BI50U-Q80-AP6X2-H1141	1608940 ✘	S002	0.25	-25...+70	IP68	PBT	PBT	-	•	•
BI50U-Q80-VP4X2-H1141	1562000 ✘	S008	0.25	-25...+70	IP68	PBT	PBT	-	•	•
BI50U-Q80-VP4X2-H1141/3GD	1562004	S008	0.25	0...+50	IP68	PBT	PBT	-	•	•
BI50U-Q80-AN6X2-H1141	1608944	S005	0.25	-25...+70	IP68	PBT	PBT	-	•	•
BI50U-Q80-VN4X2-H1141	1562001	S011	0.25	-25...+70	IP68	PBT	PBT	-	•	•
NI70U-Q80-AP6X2-H1141	1625832 ✘	S002	0.25	-25...+70	IP68	PBT	PBT	-	•	•
NI70U-Q80-VP4X2-H1141	1625833 ✘	S008	0.25	-25...+70	IP68	PBT	PBT	-	•	•
BI50-Q80-Y1X	1008701 ✘	S025	0.1	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•
NI60-Q80-Y1X	1008700 ✘	S025	0.1	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•
BI40-CP80-VP4X2-H1141	1569702 ✘	S008	0.1	-25...+70	IP67	PBT	PBT	-	•	•
NI75U-CP80-VP4X2-H1141	1540802	S008	0.25	-30...+85	IP67	PBT	PBT	-	•	•
NI40-CP80-Y1	10085 ✘	S027	0.1	-25...+70	IP67	PBT	PBT	-	-	-
NI40-CP80-Y1/S97	1040010	S027	0.1	-40...+70	IP67	PBT	PBT	-	-	-

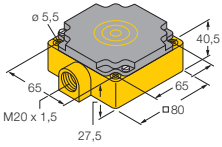




Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
 <p>CP80</p> 	<p>  II 2 G  II 1 D T +100°C </p>	<p>40, </p>	<p>NAMUR</p>	<p>nom. 8.2 VDC</p>	<p>–</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI40-CP80-Y1/S100	10404 x	S027	0.1	-25...+100	IP67	PBT	PBT	-	-	-

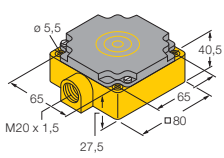































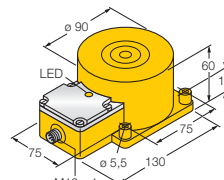





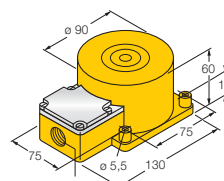










Sensortechnik/Sensors/
Détecteurs

x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	CP80 	-	40, 	 , PNP	10...65 VDC	200 DC, (K)
		-	40, 	 , NPN	10...65 VDC	200 DC, (K)
		-	40, 	program.	20...250 VAC 10...300 VDC	400 AC 300 mA
		uprox®	75, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	75, 	 , PNP	10...65 VDC	200 DC, (K)
		uprox®	75, 	 , NPN	10...30 VDC	200 DC, (K)
		uprox®	75, 	 , NPN	10...65 VDC	200 DC, (K)
		uprox®	75, 	program.	20...250 VAC 10...300 VDC	400 AC 300 DC, (K)
		Sn +	50, 	 , PNP	10...65 VDC	200 DC, (K)
		Sn +	50, 	 , NPN	10...65 VDC	200 DC, (K)
		Sn +	50, 	program.	20...250 VAC 10...300 VDC	400 AC 300 mA
		-	40, 	 , PNP	10...65 VDC	200 DC, (K)
		T -40°C	40, 	 , PNP	10...65 VDC	200 DC, (K)
		T +100°C	40, 	 , PNP	10...65 VDC	200 DC, (K)
		-	40, 	 , NPN	10...65 VDC	200 DC, (K)
		-	40, 	program.	20...250 VAC 10...300 VDC	400 AC 300 mA
		T -40°C	40, 	program.	20...250 VAC 10...300 VDC	400 AC 300 mA
		T +100°C	40, 	program.	20...250 VAC 10...300 VDC	400 AC 300 mA
	K90 	uprox®+	100, 	 , PNP	10...65 VDC	200 DC, (K)
		uprox®+	100, 	 , NPN	10...65 VDC	200 DC, (K)
	K90 	uprox®+	100, 	 , PNP	10...65 VDC	200 DC, (K)
		uprox®+	100, 	 , NPN	10...65 VDC	200 DC, (K)
		-	60, 	 , PNP	10...65 VDC	200 DC, (K)
		-	60, 	 , NPN	10...65 VDC	200 DC, (K)
		-	60, 	program.	20...250 VAC 10...300 VDC	400 AC 300 mA

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI40-CP80-VP4X2	15697 ✘	S009	0.1	-25...+70	IP67	PBT	PBT	-	•	•
BI40-CP80-VN4X2	15797	S012	0.1	-25...+70	IP67	PBT	PBT	-	•	•
BI40-CP80-FZ3X2	13404	S016	0.02	-25...+70	IP67	PBT	PBT	-	•	•
NI75U-CP80-AP6X2	1623800 ✘	S003	0.25	-30...+85	IP67	PBT	PBT	-	•	•
NI75U-CP80-VP4X2	1540800 ✘	S009	0.25	-30...+85	IP67	PBT	PBT	-	•	•
NI75U-CP80-AN6X2	1623810 ✘	S006	0.25	-30...+85	IP67	PBT	PBT	-	•	•
NI75U-CP80-VN4X2	1540810 ✘	S012	0.25	-30...+85	IP67	PBT	PBT	-	•	•
NI75U-CP80-FDZ30X2	4280900 ✘	S016	0.06	-30...+85	IP67	PBT	PBT	-	•	•
NI50-CP80-VP4X2	15696 ✘	S009	0.1	-25...+70	IP67	PBT	PBT	-	•	•
NI50-CP80-VN4X2	15796 ✘	S012	0.1	-25...+70	IP67	PBT	PBT	-	•	•
NI50-CP80-FZ3X2	13406 ✘	S016	0.02	-25...+70	IP67	PBT	PBT	-	•	•
NI40-CP80-VP4X2	15695 ✘	S009	0.1	-25...+70	IP67	PBT	PBT	-	•	•
NI40-CP80-VP4X2/S97	1569522	S009	0.1	-40...+70	IP67	PBT	PBT	-	•	•
NI40-CP80-VP4X2/S100	15095 ✘	S009	0.1	-25...+100	IP67	PBT	PBT	-	•	•
NI40-CP80-VN4X2	15795 ✘	S012	0.1	-25...+70	IP67	PBT	PBT	-	•	•
NI40-CP80-FZ3X2	13405 ✘	S016	0.02	-25...+70	IP67	PBT	PBT	-	•	•
NI40-CP80-FZ3X2/S97	1340510	S016	0.02	-40...+70	IP67	PBT	PBT	-	•	•
NI40-CP80-FZ3X2/S100	13443 ✘	S016	0.02	-25...+100	IP67	PBT	PBT	-	•	•
NI100U-K90SR-VP4X2-H1141	1625844 ✘	S008	0.25	-30...+85	IP68	PBT	PBT	-	•	•
NI100U-K90SR-VN4X2-H1141	1515510	S011	0.25	-30...+85	IP68	PBT	PBT	-	•	•
NI100U-K90SR-VP4X2	1625834 ✘	S009	0.25	-30...+85	IP68	PBT	PBT	-	•	•
NI100U-K90SR-VN4X2	1515503 ✘	S012	0.25	-30...+85	IP68	PBT	PBT	-	•	•
NI60-K90SR-VP4X2	15640 ✘	S009	0.06	-25...+70	IP67	PBT	PBT	-	•	•
NI60-K90SR-VN4X2	15740 ✘	S012	0.06	-25...+70	IP67	PBT	PBT	-	•	•
NI60-K90SR-FZ3X2	13429 ✘	S016	0.02	-25...+70	IP67	PBT	PBT	-	•	•

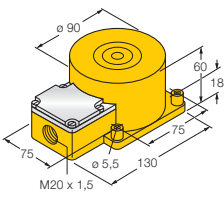


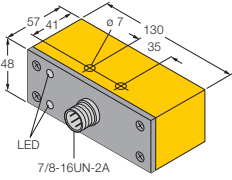



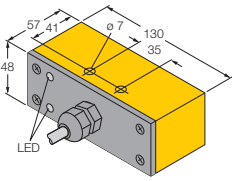







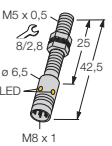







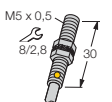








Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	K90 	II 2 G II 1 D	50, 	NAMUR	nom. 8.2 VDC	-
	Q130 	-	30, 		20...250 VAC 10...300 VDC	400 AC 300 DC, (K)
	Q130 	-	30, 	 , PNP	10...65 VDC	200 DC, (K)
		-	30, 	 , NPN	10...65 VDC	200 DC, (K)
		-	30, 		20...250 VAC 10...300 VDC	400 AC 300 DC, (K)
	M5 x 0,5 	-	1, 	 , PNP	10...30 VDC	100 DC, (K)
		-	1, 	 , PNP	10...30 VDC	100 DC, (K)
		-	1, 		10...30 VDC	100 DC, (K)
	M5 x 0,5 	II 1 G II 1 D	1, 	NAMUR	nom. 8.2 VDC	-
		-	1, 		10...30 VDC	100 DC, (K)
		-	1, 		10...30 VDC	100 DC, (K)
		-	1, 		10...30 VDC	100 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
NI50-K90SR-Y1	10074 ✘	S027	0.1	-25...+70	IP67	PBT	PBT	-	-	-
NI30-Q130-ADZ30X2-B1131	42100 ✘	S153	0.03	-25...+70	IP67	PBT	PBT	-	•	•
NI30-Q130-VP4X2	15179 ✘	S007	0.06	-25...+70	IP67	PBT	PBT	PVC	•	•
NI30-Q130-VN4X2	15178	S010	0.06	-25...+70	IP67	PBT	PBT	PVC	•	•
NI30-Q130-ADZ30X2	42095 ✘	S155	0.03	-25...+70	IP67	PBT	PBT	PVC	•	•
B11-EG05-AP6X-V1331	4608640 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
B11-EG05-RP6X-V1331	4609752	S175	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
B11-EG05-AN6X-V1331	4608740 ✘	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
B11-EG05-Y1	1003240 ✘	S025	5	-25...+70	IP67	V4A (1.4404)	PA	PVC 2 m	-	-
B11-EG05-AP6X	4609740 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
B11-EG05-RP6X	4609750	S054	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
B11-EG05-AN6X	4609840 ✘	S004	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•

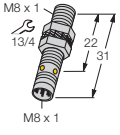









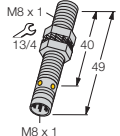























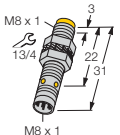





Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
	M8 x 1						
		Sn +	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		Sn +	2, 	 , NPN	10...30 VDC	150 DC, (K)	
		-	1.5, 	 , PNP	10...30 VDC	150 DC, (K)	
		-	1.5, 	 , NPN	10...30 VDC	150 DC, (K)	
	M8 x 1						
		uprox®+	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		teflon uprox®+	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		uprox®+	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		uprox®+	2, 	 , NPN	10...30 VDC	150 DC, (K)	
		Sn +	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		Sn +	2, 	 , NPN	10...30 VDC	150 DC, (K)	
		uprox®	1.5, 	 , PNP	10...30 VDC	150 DC, (K)	
		teflon uprox®	1.5, 	 , PNP	10...30 VDC	150 DC, (K)	
		uprox®	1.5, 	 , NPN	10...30 VDC	150 DC, (K)	
		-	1.5, 	 , PNP	10...30 VDC	150 DC, (K)	
	-	1.5, 	 , NPN	10...30 VDC	150 DC, (K)		
	M8 x 1						
		-	3, 	 , PNP	10...30 VDC	150 DC, (K)	
		-	3, 	 , NPN	10...30 VDC	150 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI2-EG08K-AP6X-V1131	4669450 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI2-EG08K-AN6X-V1131	4669550 ✘	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI1,5-EG08K-AP6X-V1131	4672440 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI1,5-EG08K-AN6X-V1131	4672540 ✘	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI2U-EG08-AP6X-V1131	4602033 ✘	S002	1	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
BI2U-EGT08-AP6X-V1131	4602070 ✘	S002	1	-30...+85	IP68	V4A (1.4404)-T	PP	-	-	•
BI2U-EG08-RP6X-V1131	4602091 ✘	S175	1	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
BI2U-EG08-AN6X-V1131	4602036	S005	1	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
BI2-EG08-AP6X-V1131	4602050 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI2-EG08-AN6X-V1131	4602150 ✘	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI1,5U-EG08-AP6X-V1131	4600520 ✘	S002	2	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
BI1,5U-EGT08-AP6X-V1131	4600556 ✘	S002	2	-30...+85	IP67	V4A (1.4404)-T	PA	-	-	•
BI1,5U-EG08-AN6X-V1131	4600530 ✘	S005	2	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
BI1,5-EG08-AP6X-V1131	4602220 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI1,5-EG08-AN6X-V1131	4602350	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
NI3-EG08K-AP6X-V1131	4669650 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
NI3-EG08K-AN6X-V1131	4669750	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M8 x 1	–	3, 	 , PNP	10...30 VDC	150 DC, (K)
		–	3, 	 , NPN	10...30 VDC	150 DC, (K)
	M8 x 1	uprox®+	6, 	 , PNP	10...30 VDC	150 DC, (K)
		uprox®+	6, 	 , PNP	10...30 VDC	150 DC, (K)
		uprox®+	6, 	 , NPN	10...30 VDC	150 DC, (K)
		uprox®	4, 	 , PNP	10...30 VDC	150 DC, (K)
		uprox®	4, 	 , NPN	10...30 VDC	150 DC, (K)
	M8 x 1	Sn +	2, 	 , PNP	10...30 VDC	150 DC, (K)
		Sn +	2, 	 , NPN	10...30 VDC	150 DC, (K)
		 II 1 G  II 1 D	1.5, 	NAMUR	nom. 8.2 VDC	–
		–	1.5, 	 , PNP	10...30 VDC	150 DC, (K)
		–	1.5, 	 , NPN	10...30 VDC	150 DC, (K)
	M8 x 1	 II 1 G  II 1 D	1.5, 	NAMUR	nom. 8.2 VDC	–
						

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI3-EG08-AP6X-V1131	4602750 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
NI3-EG08-AN6X-V1131	4602850	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
NI6U-EG08-AP6X-V1131	4635801 ✘	S002	1	0...+70	IP68	V4A (1.4404)	PA	-	-	•
NI6U-EG08-RP6X-V1131	4635831 ✘	S175	1	0...+70	IP68	V4A (1.4404)	PA	-	-	•
NI6U-EG08-AN6X-V1131	4635804	S005	1	0...+70	IP68	V4A (1.4404)	PA	-	-	•
NI4U-EG08-AP6X-V1131	4600620 ✘	S002	2	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
NI4U-EG08-AN6X-V1131	4600630 ✘	S005	2	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
BI2-EG08K-AP6X-H1341	4669460 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI2-EG08K-AN6X-H1341	4669560	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI1,5-EG08K-Y1-H1341	1003620 ✘	S026	5	-25...+70	IP67	V4A (1.4404)	PA	-	-	-
BI1,5-EG08K-AP6X-H1341	4669050 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI1,5-EG08K-AN6X-H1341	4669150 ✘	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI1,5-EG08-Y1-H1341	1003502	S026	5	-25...+70	IP67	V4A (1.4404)	PA	-	-	-

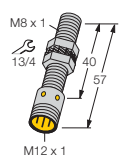

































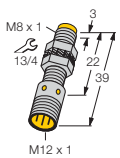






Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
	M8 x 1						
		uprox®+	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		teflon uprox®+	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		uprox®+	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		uprox®+	2, 	 , NPN	10...30 VDC	150 DC, (K)	
		Sn +	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		Sn +	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		Sn +	2, 	 , NPN	10...30 VDC	150 DC, (K)	
		Sn +	2, 	 , 2-wire	10...55 VDC	100 DC, (K)	
		uprox®	1.5, 	 , PNP	10...30 VDC	150 DC, (K)	
		teflon uprox®	1.5, 	 , PNP	10...30 VDC	150 DC, (K)	
		uprox®	1.5, 	 , NPN	10...30 VDC	150 DC, (K)	
		teflon uprox®	1.5, 	 , NPN	10...30 VDC	150 DC, (K)	
		-	1.5, 	 , PNP	10...30 VDC	150 DC, (K)	
		20 bar wash down	1.5, 	 , PNP	10...30 VDC	150 DC, (K)	
		-	1.5, 	 , NPN	10...30 VDC	150 DC, (K)	
		20 bar wash down	1.5, 	 , NPN	10...30 VDC	150 DC, (K)	
	M8 x 1						
		Ex II 1 G Ex II 1 D	3, 	NAMUR	nom. 8.2 VDC	-	
		-	3, 	 , PNP	10...30 VDC	150 DC, (K)	
	-	3, 	 , NPN	10...30 VDC	150 DC, (K)		





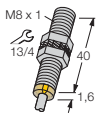


Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials (IEC 852) Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI2U-EG08-AP6X-H1341	4602034 ✘	S002	1	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
BI2U-EGT08-AP6X-H1341	4602071 ✘	S002	1	-30...+85	IP68	V4A (1.4404)-T	PP	-	-	•
BI2U-EG08-RP6X-H1341	4602080 ✘	S056	1	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
BI2U-EG08-AN6X-H1341	4602037	S005	1	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
BI2-EG08-AP6X-H1341	4602060 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI2-EG08-VP6X-H1341	4602522 ✘	S008	2	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI2-EG08-AN6X-H1341	4602160 ✘	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI2-EG08-AG41X-H1341	4562001	S093	1	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI1,5U-EG08-AP6X-H1341	4600540 ✘	S002	2	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
BI1,5U-EGT08-AP6X-H1341	4600555 ✘	S002	2	-30...+85	IP68	V4A (1.4404)-T	PA	-	-	•
BI1,5U-EG08-AN6X-H1341	4600550	S005	2	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
BI1,5U-EGT08-AN6X-H1341	4600558	S005	2	-30...+85	IP68	V4A (1.4404)-T	PA	-	-	•
BI1,5-EG08-AP6X-H1341	4602260 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI1,5-EG08WD-AP6X-H1341	4602210 ✘	S002	3	-25...+85	IP68 / IP69K	V4A (1.4404)	PVDF	-	-	•
BI1,5-EG08-AN6X-H1341	4602360 ✘	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI1,5-EG08WD-AN6X-H1341	4602211	S005	3	-25...+85	IP68 / IP69K	V4A (1.4404)	PVDF	-	-	•
NI3-EG08K-Y1-H1341	1003720 ✘	S026	5	-25...+70	IP67	V4A (1.4404)	PA	-	-	-
NI3-EG08K-AP6X-H1341	4669660 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
NI3-EG08K-AN6X-H1341	4669760 ✘	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M8 x 1	uprox®+	6, 	—, PNP	10...30 VDC	150 DC, (K)
		uprox®+	6, 	—, PNP	10...30 VDC	150 DC, (K)
		uprox®+	6, 	—, NPN	10...30 VDC	150 DC, (K)
		uprox®	4, 	—, PNP	10...30 VDC	150 DC, (K)
		uprox®	4, 	—, NPN	10...30 VDC	150 DC, (K)
	M8 x 1	—	3, 	—, PNP	10...30 VDC	150 DC, (K)
		—	3, 	—, NPN	10...30 VDC	150 DC, (K)
	M8 x 1	Sn +	2, 	—, PNP	10...30 VDC	150 DC, (K)
		Sn +	2, 	—, NPN	10...30 VDC	150 DC, (K)
		Ex II 1 G Ex II 1 D	1,5, 	NAMUR	nom. 8.2 VDC	—
		—	1,5, 	—, PNP	10...30 VDC	150 DC, (K)
		—	1,5, 	—, NPN	10...30 VDC	150 DC, (K)
	M8 x 1	uprox®+	2, 	—, PNP	10...30 VDC	150 DC, (K)
		uprox®+	2, 	—, NPN	10...30 VDC	150 DC, (K)
		Sn +	2, 	—, PNP	10...30 VDC	150 DC, (K)
		T +100°C	2, 	—, PNP	10...30 VDC	150 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI6U-EG08-AP6X-H1341	4635802 ✘	S002	1	0...+70	IP68	V4A (1.4404)	PA	-	-	•
NI6U-EG08-RP6X-H1341	4635830 ✘	S056	1	0...+70	IP68	V4A (1.4404)	PA	-	-	•
NI6U-EG08-AN6X-H1341	4635805	S005	1	0...+70	IP68	V4A (1.4404)	PA	-	-	•
NI4U-EG08-AP6X-H1341	4600640 ✘	S002	2	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
NI4U-EG08-AN6X-H1341	4600650	S005	2	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
NI3-EG08-AP6X-H1341	4602760 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
NI3-EG08-AN6X-H1341	4602860 ✘	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI2-EG08K-AP6X	4669400 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI2-EG08K-AN6X	4669500 ✘	S004	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI1,5-EG08K-Y1	1003600 ✘	S025	5	-25...+70	IP67	V4A (1.4404)	PA	PVC 2 m	-	-
BI1,5-EG08K-AP6X	4669040 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI1,5-EG08K-AN6X	4669140 ✘	S004	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI2U-EG08-AP6X	4602032 ✘	S001	1	-30...+85	IP68	V4A (1.4404)	PA	PUR 2 m	-	•
BI2U-EG08-AN6X	4602035 ✘	S004	1	-30...+85	IP68	V4A (1.4404)	PA	PUR 2 m	-	•
BI2-EG08-AP6X	4602040 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI2-EG08-AP6X/S100	4602047 ✘	S001	3	-25...+100	IP67	V4A (1.4404)	PA	TPE 2 m	-	•

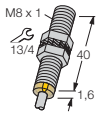





















Sensortechnik/Sensors/
DéTECTEURS

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M8 x 1	Sn +	2, 	 , NPN	10...30 VDC	150 DC, (K)
		T +100°C	2, 	 , NPN	10...30 VDC	150 DC, (K)
	Sn +	2, 	 , 2-wire	10...55 VDC	100 DC, (K)	
	-	2, 		20...132 VAC 10...140 VDC	100 AC 100 mA	
	uprox®	1.5, 	 , PNP	10...30 VDC	150 DC, (K)	
	uprox®	1.5, 	 , PNP	10...30 VDC	150 DC, (K)	
	uprox®	1.5, 	 , NPN	10...30 VDC	150 DC, (K)	
	uprox®	1.5, 	 , NPN	10...30 VDC	150 DC, (K)	
	-	1.5, 	 , PNP	10...30 VDC	150 DC, (K)	
	-	1.5, 	 , NPN	10...30 VDC	150 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI2-EG08-AN6X	4602140 ✘	S004	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI2-EG08-AN6X/S100	4602108	S004	3	-25...+100	IP67	V4A (1.4404)	PA	TPE 2 m	-	•
BI2-EG08-AG41X	4562000	S042	1	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI2-EG08-AZ14X	4100001 ✘	S092	0.02	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI1,5U-EG08-AP6X	4600500 ✘	S001	2	-30...+85	IP68	V4A (1.4404)	PA	PUR 2 m	-	•
BI1,5U-EG08-AP6X 7M	4600501	S001	2	-30...+85	IP68	V4A (1.4404)	PA	PUR 7 m	-	•
BI1,5U-EG08-AN6X	4600510 ✘	S004	2	-30...+85	IP68	V4A (1.4404)	PA	PUR 2 m	-	•
BI1,5U-EG08-AN6X 7M	4600504	S004	2	-30...+85	IP68	V4A (1.4404)	PA	PUR 7 m	-	•
BI1,5-EG08-AP6X	4602240 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI1,5-EG08-AN6X	4602340 ✘	S004	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M8 x 1	II 1 G II 1 D	1.5, NAMUR	nom. 8.2 VDC	-	
		-	1.5, PNP	10...30 VDC	150 DC, (K)	
		-	1.5, NPN	10...30 VDC	150 DC, (K)	
	M8 x 1	II 1 G II 1 D	3, NAMUR	nom. 8.2 VDC	-	
		-	3, PNP	10...30 VDC	150 DC, (K)	
		-	3, NPN	10...30 VDC	150 DC, (K)	
	M8 x 1	uprox@+	6, PNP	10...30 VDC	150 DC, (K)	
		uprox@+	6, NPN	10...30 VDC	150 DC, (K)	
		uprox@	4, PNP	10...30 VDC	150 DC, (K)	
		uprox@	4, NPN	10...30 VDC	150 DC, (K)	
		Sn +	4, 2-wire	10...55 VDC	100 DC, (K)	
	M8 x 1	-	3, PNP	10...30 VDC	150 DC, (K)	
		-	3, NPN	10...30 VDC	150 DC, (K)	
	M12 x 1	uprox@+	4, PNP	10...30 VDC	200 DC, (K)	
		uprox@+	4, NPN	10...30 VDC	200 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI1,5-GS880-Y1	1004401	S025	5	-25...+70	IP67	V4A (1.4404)	POM	PVC 2 m	-	-
BI1,5-GS880-AP6X	4604401 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	POM	PUR 2 m	-	•
BI1,5-GS880-AN6X	4604501	S004	3	-25...+70	IP67	V4A (1.4404)	POM	PUR 2 m	-	•
NI3-EG08K-Y1	1003700 ✘	S025	5	-25...+70	IP67	V4A (1.4404)	PA	PVC 2 m	-	-
NI3-EG08K-AP6X	4669600 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
NI3-EG08K-AN6X	4669700 ✘	S004	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
NI6U-EG08-AP6X	4635800 ✘	S001	1	0...+70	IP68	V4A (1.4404)	PA	PUR 2 m	-	•
NI6U-EG08-AN6X	4635803 ✘	S004	1	0...+70	IP68	V4A (1.4404)	PA	PUR 2 m	-	•
NI4U-EG08-AP6X	4600600 ✘	S001	2	-30...+85	IP68	V4A (1.4404)	PA	PUR 2 m	-	•
NI4U-EG08-AN6X	4600610 ✘	S004	2	-30...+85	IP68	V4A (1.4404)	PA	PUR 2 m	-	•
NI4-EG08-AG41X	4561000	S042	1	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
NI3-EG08-AP6X	4602740 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
NI3-EG08-AN6X	4602840 ✘	S004	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI4U-M12-AP6X-V1131	1634780 ✘	S002	2	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI4U-M12-AN6X-V1131	1635430	S005	2	-30...+85	IP68	CuZn-Cr	LCP	-	-	•

Sensortechnik/Sensors/
Détecteurs

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Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M12 x 1	Sn +	4, 	 , PNP	10...30 VDC	200 DC, (K)
						
	M12 x 1	uprox®+	10, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®+	10, 	 , NPN	10...30 VDC	200 DC, (K)
	M12 x 1	-	2, 	 , PNP	10...30 VDC	200 DC, (K)
						
	M12 x 1	uprox®+	4, 	 , PNP	10...30 VDC	200 DC, (K)
		teflon	4, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®+	4, 	 , PNP	10...30 VDC	200 DC, (K)
		20 bar	4, 	 , PNP	10...30 VDC	200 DC, (K)
		wash down				
		T -40°C				
		T +100°C				
		⊕ II 3 D	4, 	 , PNP	10...30 VDC	200 DC, (K)
	20 bar					
	uprox®+	4, 	 , PNP	10...30 VDC	200 DC, (K)	
	wash down					
	uprox®+	4, 	 , NPN	10...30 VDC	200 DC, (K)	
	uprox®+	4, 	 , NPN	10...30 VDC	200 DC, (K)	
	teflon	4, 	 , NPN	10...30 VDC	200 DC, (K)	
	uprox®+	4, 	 , NPN	10...30 VDC	200 DC, (K)	
	20 bar	4, 	 , NPN	10...30 VDC	200 DC, (K)	
	wash down					
	T -40°C					
	T +100°C					

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI4-G12-AP6X-V1131	1690703 ✕	S002	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI10U-M12-AP6X-V1131	1634790 ✕	S002	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI10U-M12-AN6X-V1131	1634795	S005	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI2-G12K-AP6X-H1141	4670260 ✕	S002	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI4U-M12-AP6X-H1141	1634804 ✕	S002	2	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI4U-MT12-AP6X-H1141	1634809 ✕	S002	2	-30...+85	IP68	CuZn-T	LCP	-	-	•
BI4U-EM12WD-AP6X-H1141	1634812 ✕	S002	2	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
BI4U-EM12WD-AP6X-H1141/3D	1634851 ✕	S002	2	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
BI4U-M12-RP6X-H1141	1634846 ✕	S056	2	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI4U-M12-AN6X-H1141	1634824 ✕	S005	2	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI4U-MT12-AN6X-H1141	1634829	S005	2	-30...+85	IP68	CuZn-T	LCP	-	-	•
BI4U-EM12WD-AN6X-H1141	1634841	S005	2	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•

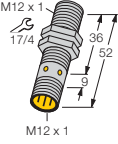





































Sensortechnik/Sensors/
Détecteurs

✕ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S _n Sensing range S _n Distance de commutation S _n [mm]	Ausgang Output Sortie	Betriebsspannung U _B Operational voltage U _B Tension de service U _B [V]	Betriebsstrom I _e Operational current I _e Courant de service I _e [mA]	
	M12 x 1					
	 ⓧ II 3 D 20 bar uprox®+ wash down	4, 	 , NPN	10...30 VDC	200 DC, ⓐ	
	Sn +	4, 	 , PNP	10...30 VDC	200 DC, ⓐ	
	Sn +	4, 	 , PNP	10...30 VDC	200 DC, ⓐ	
	Sn +	4, 	 , NPN	10...30 VDC	200 DC, ⓐ	
	Sn +	4, 	 , NPN	10...30 VDC	200 DC, ⓐ	
	uprox®	3, 	 , PNP	10...30 VDC	200 DC, ⓐ	
	teflon uprox®	3, 	 , PNP	10...30 VDC	200 DC, ⓐ	
	uprox®	3, 	 , PNP	10...30 VDC	200 DC, ⓐ	
	uprox®	3, 	 , NPN	10...30 VDC	200 DC, ⓐ	
	teflon uprox®	3, 	 , NPN	10...30 VDC	200 DC, ⓐ	
	uprox®	3, 	 , NPN	10...30 VDC	200 DC, ⓐ	
	-	3, 		10...65 VDC	100 DC, ⓐ	
	ⓧ II 1 G ⓧ II 1 D	2, 	NAMUR	nom. 8.2 VDC	-	
	ⓧ II 1 G ⓧ II 1 D SIL2	2, 	NAMUR	nom. 8.2 VDC	-	
	-	2, 	 , PNP	10...30 VDC	200 DC, ⓐ	
	-	2, 	 , PNP	10...30 VDC	200 DC, ⓐ	
	-	2, 	 , NPN	10...30 VDC	200 DC, ⓐ	
	-	2, 	 , NPN	10...30 VDC	200 DC, ⓐ	
	-	2, 		10...65 VDC	100 DC, ⓐ	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI4U-EM12WD-AN6X-H1141/3D	1634852	S005	2	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
BI4-M12-AP6X-H1141	46070 ✘	S002	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI4-M12-VP6X-H1141	1633200 ✘	S008	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI4-M12-AN6X-H1141	46071 ✘	S005	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI4-M12-VN6X-H1141	1643200	S011	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI3U-M12-AP6X-H1141	1634140 ✘	S002	3	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI3U-MT12-AP6X-H1141	1634240 ✘	S002	0.25	-30...+85	IP67	CuZn-T	PBT	-	-	•
BI3U-EM12-AP6X-H1141	1634340 ✘	S002	3	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI3U-M12-AN6X-H1141	1634150 ✘	S005	3	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI3U-MT12-AN6X-H1141	1634250 ✘	S005	0.25	-30...+85	IP67	CuZn-T	PBT	-	-	•
BI3U-EM12-AN6X-H1141	1634350 ✘	S005	3	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI3-M12-AD4X-H1141	4405041 ✘	S014	1	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI2-M12-Y1X-H1141	40102 ✘	S026	5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI2-EM12-Y1X-H1141	4010201 ✘	S026	5	-25...+70	IP67	V2A (1.4301)	PA	-	-	•
BI2-M12-AP6X-H1141	46065 ✘	S002	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI2-M12-VP6X-H1141	16330 ✘	S008	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI2-M12-AN6X-H1141	46066 ✘	S005	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI2-M12-VN6X-H1141	16430 ✘	S011	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI2-M12-AD4X-H1141	44065 ✘	S014	1	-25...+70	IP67	CuZn-Cr	PA	-	-	•

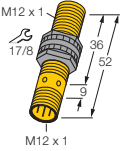





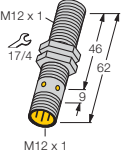















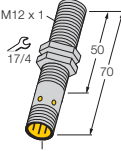

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S _n Sensing range S _n Distance de commutation S _n [mm]	Ausgang Output Sortie	Betriebsspannung U _B Operational voltage U _B Tension de service U _B [V]	Betriebsstrom I _e Operational current I _e Courant de service I _e [mA]	
	M12 x 1 	uprox®	3, 	—, PNP	10...30 VDC	200 DC, (K)
		uprox®	3, 	—, NPN	10...30 VDC	200 DC, (K)
		uprox®	8, 	—, PNP	10...30 VDC	200 DC, (K)
		uprox®	8, 	—, NPN	10...30 VDC	200 DC, (K)
	M12 x 1 	uprox®+	4, 	—, PNP	10...55 VDC	200 DC, (K)
		20 bar uprox®+ wash down	4, 	—, PNP	10...55 VDC	200 DC, (K)
		uprox®+	4, 	—, NPN	10...55 VDC	200 DC, (K)
		Sn +	4, 	—, PNP	10...30 VDC	200 DC, (K)
		e1, load dump T +85°C T -40°C 100 V/m, 100 mA BCI Sn +	4, 	—, PNP	8.4...65 VDC	200 DC, (K)
		uprox®	3, 	—, PNP	10...65 VDC	200 DC, (K)
		uprox®	3, 	—, NPN	10...65 VDC	200 DC, (K)
		uprox®	3, 	—, NPN	10...65 VDC	200 DC, (K)
		harsh selective NF	3, 	—, PNP	10...30 VDC	200 DC, (K)
		harsh selective NF	3, 	—, NPN	10...30 VDC	200 DC, (K)
		uprox®+	2, 	—	10...65 VDC	100 DC, (K)
		teflon uprox®+	2, 	—	10...65 VDC	100 DC, (K)
		—	2, 	—, PNP	10...30 VDC	200 DC, (K)
		—	2, 	—, NPN	10...30 VDC	200 DC, (K)
	M12 x 1	selective FE	3, 	—, PNP	10...30 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI3U-S12-AP6X-H1141	1634600 ✘	S002	3	-30...+85	IP68	PBT	PBT	-	-	•
BI3U-S12-AN6X-H1141	1634620	S005	3	-30...+85	IP68	PBT	PBT	-	-	•
NI8U-S12-AP6X-H1141	1644600 ✘	S002	2	-30...+85	IP68	PBT	PBT	-	-	•
NI8U-S12-AN6X-H1141	1644620	S005	2	-30...+85	IP68	PBT	PBT	-	-	•
BI4U-M12E-VP44X-H1141	1634869 ✘	S008	2	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI4U-EM12EWD-VP44X-H1141	1634905 ✘	S008	2	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
BI4U-M12E-VN44X-H1141	1634873 ✘	S011	2	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI4-M12E-AP6X-H1141	4608030 ✘	S002	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI4-EM12E-AP45XLD-H1141	1584000 ✘	S002	2	-40...+85	IP68 / IP69K	V4A (1.4404)	PA	-	-	•
BI3U-M12E-VP4X-H1141	1580252 ✘	S008	3	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI3U-M12E-VN4X-H1141	1580354	S011	3	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI3U-EM12E-VN4X-H1141	1580363	S011	3	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI3NF-EM12HE-AP6X2-H1141	1615001 ✘	S002	3	0...+60	IP67	V2A (1.4301)	DURO	-	•	•
BI3NF-EM12HE-AN6X2-H1141	1615003	S005	3	0...+60	IP67	V2A (1.4301)	DURO	-	•	•
BI2U-M12E-AD4X-H1144	4405060 ✘	S179	0.01	0...+70	IP68	CuZn-Cr	LCP	-	-	•
BI2U-MT12E-AD4X-H1144	4405061 ✘	S179	0.01	0...+70	IP68	CuZn-T	LCP	-	-	•
BI2-M12E-AP6X-H1141	4606505 ✘	S002	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI2-M12E-AN6X-H1141	4606602	S005	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI3FE-M12FEE-AP6X-H1141	1615108 ✘	S002	0.025	0...+60	IP67	CuZn-OP	VA	-	-	•

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]
<p>M12 x 1</p>	M12 x 1 	uprox® 8,		10...30 VDC	200 DC, (K)
<p>M12 x 1</p>	M12 x 1 	uprox® 3,		10...30 VDC	200 DC, (K)
<p>M12 x 1</p>	M12 x 1 	uprox®+ 4,		10...55 VDC	200 DC, (K)
<p>M12 x 1</p>	M12 x 1 	uprox®+ 4,		10...55 VDC	200 DC, (K)
<p>M12 x 1</p>	M12 x 1 	teflon uprox®+ 2,		10...65 VDC	100 DC, (K)
<p>M12 x 1</p>	M12 x 1 	- 2,		10...30 VDC	200 DC, (K)
		- 2,		10...30 VDC	200 DC, (K)
		- 4,		10...30 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials (IEC 852) Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
NI8U-M12EE-AP6X-H1141	1644147 ✘	S002	2	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI3U-M12EE-AP6X-H1141	1634149 ✘	S002	3	-30...+85	IP67	CuZn-Cr	PA	-	-	•
BI4U-M12-VP44X-H1141 L80	1634918 ✘	S008	2	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI4U-M12-VP44X-H1141 L100	1634917 ✘	S008	2	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI2U-MT12E-AD4X-0,3-RS4.23/XOR	4405048 ✘	S179	0.01	0...+70	IP68	CuZn-T	LCP	PVC 0.3 m	-	•
BI2-S12-AP6X-H1141	46520 ✘	S002	2	-25...+70	IP67	PA	PA	-	-	•
BI2-S12-AN6X-H1141	46521	S005	2	-25...+70	IP67	PA	PA	-	-	•
NI4-S12-AP6X-H1141	46522 ✘	S002	2	-25...+70	IP67	PA	PA	-	-	•








Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M12 x 1					
						
	uprox®+	10, 	 , PNP	10...30 VDC	200 DC, (K)	
	teflon uprox®+	10, 	 , PNP	10...30 VDC	200 DC, (K)	
	20 bar uprox®+ wash down T -40°C T +100°C	10, 	 , PNP	10...30 VDC	200 DC, (K)	
	 II 3 D 20 bar uprox®+ wash down	10, 	 , PNP	10...30 VDC	200 DC, (K)	
	uprox®+	10, 	 , PNP	10...30 VDC	200 DC, (K)	
	uprox®+	10, 	 , NPN	10...30 VDC	200 DC, (K)	
	teflon uprox®+	10, 	 , NPN	10...30 VDC	200 DC, (K)	
	20 bar uprox®+ wash down T -40°C T +100°C	10, 	 , NPN	10...30 VDC	200 DC, (K)	
	 II 3 D 20 bar uprox®+ wash down	10, 	 , NPN	10...30 VDC	200 DC, (K)	
	uprox®	8, 	 , PNP	10...30 VDC	200 DC, (K)	
	teflon uprox®	8, 	 , PNP	10...30 VDC	200 DC, (K)	
	uprox®	8, 	 , PNP	10...30 VDC	200 DC, (K)	
	uprox®	8, 	 , NPN	10...30 VDC	200 DC, (K)	
	teflon uprox®	8, 	 , NPN	10...30 VDC	200 DC, (K)	
	uprox®	8, 	 , NPN	10...30 VDC	200 DC, (K)	
	Sn +	8, 	 , PNP	10...30 VDC	200 DC, (K)	
	Sn +	8, 	 , NPN	10...30 VDC	200 DC, (K)	
	-	8, 		10...65 VDC	100 DC, (K)	
 II 1 G  II 1 D	5, 	NAMUR	nom. 8.2 VDC	-		
 II 1 G  II 1 D	5, 	NAMUR	nom. 8.2 VDC	-		
-	4, 	 , PNP	10...30 VDC	200 DC, (K)		
-	4, 	 , PNP	10...30 VDC	200 DC, (K)		
-	4, 	 , NPN	10...30 VDC	200 DC, (K)		

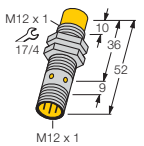


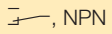


Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
NI10U-M12-AP6X-H1141	1634806 ✘	S002	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI10U-MT12-AP6X-H1141	1634810 ✘	S002	1	-30...+85	IP68	CuZn-T	LCP	-	-	•
NI10U-EM12WD-AP6X-H1141	1634814 ✘	S002	1	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
NI10U-EM12WD-AP6X- H1141/3D	1634857 ✘	S002	1	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
NI10U-M12-RP6X-H1141	1634848 ✘	S056	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI10U-M12-AN6X-H1141	1634826 ✘	S005	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI10U-MT12-AN6X-H1141	1634830	S005	1	-30...+85	IP68	CuZn-T	LCP	-	-	•
NI10U-EM12WD-AN6X-H1141	1634837	S005	1	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
NI10U-EM12WD-AN6X- H1141/3D	1634858	S005	1	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
NI8U-M12-AP6X-H1141	1644140 ✘	S002	2	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
NI8U-MT12-AP6X-H1141	1644240 ✘	S002	2	-30...+85	IP67	CuZn-T	PBT	-	-	•
NI8U-EM12-AP6X-H1141	1644340 ✘	S002	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
NI8U-M12-AN6X-H1141	1644150 ✘	S005	2	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
NI8U-MT12-AN6X-H1141	1644250	S005	2	-30...+85	IP67	CuZn-T	PBT	-	-	•
NI8U-EM12-AN6X-H1141	1644350 ✘	S005	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
NI8-M12-AP6X-H1141	4611310 ✘	S002	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI8-M12-AN6X-H1141	4611315	S005	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI8-M12-AD4X-H1141	4411241 ✘	S014	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI5-M12-Y1X-H1141	40103 ✘	S026	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI5-EM12-Y1X-H1141	4010301 ✘	S026	2	-25...+70	IP67	V2A (1.4301)	PA	-	-	•
NI4-M12-AP6X-H1141	46067 ✘	S002	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI4-M12-VP6X-H1141	16331 ✘	S008	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI4-M12-AN6X-H1141	46068 ✘	S005	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform	Merkmale	Schaltabstand S_n	Ausgang	Betriebsspannung U_B	Betriebsstrom I_e		
Dimensions/Housing style	Features	Sensing range S_n	Output	Operational voltage U_B	Operational current I_e		
Dimensions/Format	Caractéristiques	Distance de commutation S_n [mm]	Sortie	Tension de service U_B [V]	Courant de service I_e [mA]		
	M12 x 1						
		-	4, 	 , NPN	10...30 VDC	200 DC, (K)	
		-	4, 		10...65 VDC	100 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI4-M12-VN6X-H1141	16431 x	S011	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI4-M12-AD4X-H1141	44067 x	S014	1	-25...+70	IP67	CuZn-Cr	PA	2 m	-	•

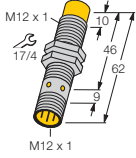









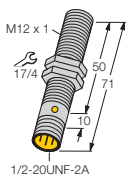


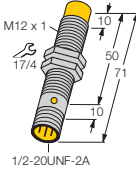


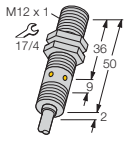



Sensortechnik/Sensors/
Détecteurs

x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M12 x 1	uprox@+	10, 	—, PNP	10...30 VDC	200 DC, (K)
		uprox@+	10, 	—, PNP	10...55 VDC	200 DC, (K)
		20 bar uprox@+ wash down	10, 	—, PNP	10...55 VDC	200 DC, (K)
		uprox@+	10, 	—, NPN	10...55 VDC	200 DC, (K)
		uprox@	8, 	—, PNP	10...65 VDC	200 DC, (K)
		uprox@	8, 	—, NPN	10...65 VDC	200 DC, (K)
		uprox@+	5, 	—	10...65 VDC	100 DC, (K)
		teflon uprox@+	5, 	—	10...65 VDC	100 DC, (K)
	M12 x 1	uprox@	2, 	—	20...250 VAC 10...300 VDC	100 AC 100 DC, (K)
						
	M12 x 1	uprox@	8, 	—	20...250 VAC 10...300 VDC	100 AC 100 DC, (K)
						
	M12 x 1	20 bar uprox@+ wash down T -40°C T +100°C	4, 	—, PNP	10...30 VDC	200 DC, (K)
		20 bar uprox@+ wash down T -40°C T +100°C	4, 	—, NPN	10...30 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
NI10U-M12E-AP6X-H1141	1634901	S002	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI10U-M12E-VP44X-H1141	1634871 ✘	S008	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI10U-EM12EWD-VP44X-H1141	1634896	S008	1	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
NI10U-M12E-VN44X-H1141	1634875 ✘	S011	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI8U-M12E-VP4X-H1141	1580454 ✘	S008	2	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
NI8U-M12E-VN4X-H1141	1580552 ✘	S011	2	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
NI5U-M12E-AD4X-H1144	4405063 ✘	S179	0.01	0...+70	IP68	CuZn-Cr	LCP	-	-	•
NI5U-MT12E-AD4X-H1144	4405065 ✘	S179	0.01	0...+70	IP68	CuZn-T	LCP	-	-	•
BI2U-G12-ADZ32X-B3131	4281005 ✘	S019	0.06	-30...+85	IP67	CuZn-Cr	PA	-	-	•
NI8U-G12-ADZ32X-B3131	4281105 ✘	S019	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI4U-EM12WD-AP6X	1634811 ✘	S001	2	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	PP 2 m	-	•
BI4U-EM12WD-AN6X	1634842	S004	2	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	PP 2 m	-	•

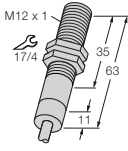



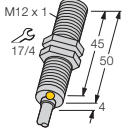


























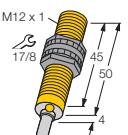





Sensortechnik/Sensors/
DéTECTEURS

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M12 x 1	T +120°C wash down 20 bar wash down T -60°C	2, 	—, PNP	10...30 VDC	200 DC, (K)
		2, 	—, PNP	10...30 VDC	200 DC, (K)	
	M12 x 1	uprox®+	4, 	—, PNP	10...30 VDC	200 DC, (K)
		uprox®+	4, 	—, NPN	10...30 VDC	200 DC, (K)
	Sn +	4, 	—, PNP	10...30 VDC	200 DC, (K)	
	Sn +	4, 	 , PNP	10...30 VDC	200 DC, (K)	
	Sn +	4, 	—, NPN	10...30 VDC	200 DC, (K)	
	Sn +	4, 	 , NPN	10...30 VDC	200 DC, (K)	
	uprox®	3, 	—, PNP	10...30 VDC	200 DC, (K)	
	uprox®	3, 	—, PNP	10...30 VDC	200 DC, (K)	
	uprox®	3, 	—, NPN	10...30 VDC	200 DC, (K)	
	uprox®	3, 	—, NPN	10...30 VDC	200 DC, (K)	
	—	3, 	—	10...65 VDC	100 DC, (K)	
	—	2, 	—, PNP	10...30 VDC	200 DC, (K)	
	—	2, 	 , PNP	10...30 VDC	200 DC, (K)	
	—	2, 	 , PNP	10...30 VDC	200 DC, (K)	
	T +100°C	2, 	—, PNP	10...30 VDC	200 DC, (K)	
	—	2, 	—, NPN	10...30 VDC	200 DC, (K)	
	—	2, 	 , NPN	10...30 VDC	200 DC, (K)	
—	2, 	 , NPN	10...30 VDC	200 DC, (K)		
—	2, 	—	10...65 VDC	100 DC, (K)		
	M12 x 1	uprox®	3, 	—, PNP	10...30 VDC	200 DC, (K)
		uprox®	3, 	—, NPN	10...30 VDC	200 DC, (K)
	uprox®	8, 	—, PNP	10...30 VDC	200 DC, (K)	
	uprox®	8, 	—, NPN	10...30 VDC	200 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI2-EM12D-AP6/S120	4614512 ✘	S001	0.1	-25...+120	IP68 / IP69K	V4A (1.4571)	PTFE	PTFE 2 m	-	-
BI2-EM12WD-AP6/S929	4614515	S001	1	-60...+60	IP68 / IP69K	V4A (1.4571)	PTFE	FEP 2 m	-	-
BI4U-M12-AP6X	1634803 ✘	S001	2	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
BI4U-M12-AN6X	1634823	S004	2	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
BI4-M12-AP6X	4607006 ✘	S001	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI4-M12-VP6X	1633300	S007	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI4-M12-AN6X	4607130	S004	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI4-M12-VN6X	1643300	S010	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI3U-M12-AP6X	1634100 ✘	S001	3	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BI3U-EM12-AP6X	1634300 ✘	S001	3	-30...+85	IP68	V2A (1.4301)	PBT	PVC 2 m	-	•
BI3U-M12-AN6X	1634120 ✘	S004	3	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BI3U-EM12-AN6X	1634320	S004	3	-30...+85	IP68	V2A (1.4301)	PBT	PVC 2 m	-	•
BI3-M12-AD4X	4405035	S013	1	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI2-M12-AP6X	46050 ✘	S001	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI2-M12-VP6X	16302 ✘	S007	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI2-EM12-VP6X 7M	1630230 ✘	S007	2	-25...+70	IP67	V2A (1.4301)	PA	PVC 7 m	-	•
BI2-M12-AP6X/S100	4605003 ✘	S001	2	-25...+100	IP67	CuZn-Cr	PA-X	PVC 2 m	-	•
BI2-M12-AN6X	46051 ✘	S004	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI2-M12-VN6X	16402 ✘	S010	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI2-EM12-VN6X 7M	1630231	S010	2	-25...+70	IP67	V2A (1.4301)	PA	PVC 7 m	-	•
BI2-M12-AD4X	44050 ✘	S013	1	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI3U-S12-AP6X	1634500 ✘	S001	3	-30...+85	IP68	PBT	PBT	PVC 2 m	-	•
BI3U-S12-AN6X	1634520	S004	3	-30...+85	IP68	PBT	PBT	PVC 2 m	-	•
NI8U-S12-AP6X	1644500 ✘	S001	2	-30...+85	IP68	PBT	PBT	PVC 2 m	-	•
NI8U-S12-AN6X	1644520	S004	2	-30...+85	IP68	PBT	PBT	PVC 2 m	-	•





















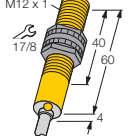

































Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M12 x 1 	Sn +	4, 	 , PNP	10...30 VDC	200 DC, (K)
		Sn +	4, 	 , NPN	10...30 VDC	200 DC, (K)
		-	3, 		10...65 VDC	100 DC, (K)
		 II 1 G  II 1 D	2, 	NAMUR	nom. 8.2 VDC	-
		 I M1	2, 	NAMUR	nom. 8.2 VDC	-
		 II 1 G  II 1 D SIL2 T +100°C	2, 	NAMUR	nom. 8.2 VDC	-
		-	2, 	 , PNP	10...30 VDC	200 DC, (K)
		-	2, 	 , NPN	10...30 VDC	200 DC, (K)
			M12 x 1 	-	2, 	 , PNP
T -40°C	2, 			 , PNP	10...30 VDC	200 DC, (K)
T +100°C	2, 			 , PNP	10...30 VDC	200 DC, (K)
-	2, 			 , NPN	10...30 VDC	200 DC, (K)
-	2, 				10...65 VDC	100 DC, (K)
-	2, 				20...250 VAC 10...300 VDC	100 AC 100 mA
T -40°C	2, 				20...250 VAC 10...300 VDC	100 AC 100 mA
T +100°C	2, 				20...250 VAC 10...300 VDC	100 AC 100 mA
-	4, 			 , PNP	10...30 VDC	200 DC, (K)
T -40°C	4, 			 , PNP	10...30 VDC	200 DC, (K)
T +100°C	4, 			 , PNP	10...30 VDC	200 DC, (K)
-	4, 			 , NPN	10...30 VDC	200 DC, (K)
-	4, 				10...65 VDC	100 DC, (K)
-	4, 				20...250 VAC 10...300 VDC	100 AC 100 mA
T -40°C	4, 				20...250 VAC 10...300 VDC	100 AC 100 mA
T +100°C	4, 				20...250 VAC 10...300 VDC	100 AC 100 mA

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI4-G12K-AP6X	4670250 ✘	S001	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI4-G12K-AN6X	4670251	S004	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI3-G12K-AD4X	4405030	S013	1	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI2-G12-Y1X	40100 ✘	S025	5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI2-G12-Y2X 7M	4010501	S025	5	-25...+70	IP67	CuZn-Cr	PA	PVC 7 m	-	•
BI2-EG12-Y1X/S100 7M	4012003 ✘	S025	5	-25...+100	IP67	V2A (1.4301)	PA	PVC 7 m	-	•
BI2-G12K-AP6X	46702 ✘	S001	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI2-G12K-AN6X	46712	S004	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI2-S12-AP6X	46530 ✘	S001	2	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI2-S12-AP6X/S97	16645	S001	2	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
BI2-S12-AP6X/S100	4653023 ✘	S001	2	-25...+100	IP67	PA	PA	PVC 2 m	-	•
BI2-S12-AN6X	46531 ✘	S004	2	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI2-S12-AD4X	44530 ✘	S013	1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI2-S12-AZ31X	13020 ✘	S092	0.02	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI2-S12-AZ31X/S97	1302002	S092	0.02	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
BI2-S12-AZ31X/S100	1302001	S092	0.02	-25...+100	IP67	PA	PA	PVC 2 m	-	•
NI4-S12-AP6X	46532 ✘	S001	2	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI4-S12-AP6X/S97	4653221	S001	2	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
NI4-S12-AP6X/S100	4653201 ✘	S001	2	-25...+100	IP67	PA	PA	PVC 2 m	-	•
NI4-S12-AN6X	46533 ✘	S004	2	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI4-S12-AD4X	44532 ✘	S013	1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI4-S12-AZ31X	13022 ✘	S092	0.02	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI4-S12-AZ31X/S97	1302202	S092	0.02	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
NI4-S12-AZ31X/S100	1302201	S092	0.02	-25...+100	IP67	PA	PA	PVC 2 m	-	•

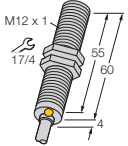

















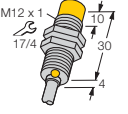















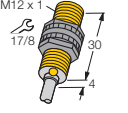









Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M12 x 1 	uprox®+	4, 	 , PNP	10...55 VDC	200 DC, (K)
		uprox®+	4, 	 , NPN	10...55 VDC	200 DC, (K)
		e1, load dump T +85°C T -40°C 100 V/m, 100 mA BCI Sn +	4, 	 , PNP	8.4...65 VDC	200 DC, (K)
		uprox®	3, 	 , PNP	10...65 VDC	200 DC, (K)
		uprox®	3, 	 , NPN	10...65 VDC	200 DC, (K)
		uprox®	3, 	 , NPN	10...65 VDC	200 DC, (K)
		uprox®+	2, 		10...65 VDC	100 DC, (K)
		-	2, 		20...250 VAC 10...300 VDC	100 AC 100 mA
	M12 x 1 	-	8, 		10...65 VDC	100 DC, (K)
		 II 1 G	5, 	NAMUR	nom. 8.2 VDC	-
		 II 1 D	5, 	NAMUR	nom. 8.2 VDC	-
		 II 1 G	5, 	NAMUR	nom. 8.2 VDC	-
		 II 1 D	5, 	NAMUR	nom. 8.2 VDC	-
		T +100°C	5, 	 , PNP	10...30 VDC	200 DC, (K)
-	5, 	 , NPN	10...30 VDC	200 DC, (K)		
	M12 x 1 	 II 2 G	2, 	NAMUR	nom. 8.2 VDC	-
		 II 1 D	2, 	NAMUR	nom. 8.2 VDC	-
		 II 2 G	2, 	NAMUR	nom. 8.2 VDC	-
		 II 1 D	2, 	NAMUR	nom. 8.2 VDC	-
T -40°C						

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI4U-M12E-VP44X	1634868 ✘	S007	2	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
BI4U-M12E-VN44X	1634872	S010	2	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
BI4-EM12E-AP45XLD	1584001 ✘	S001	2	-40...+85	IP68 / IP69K	V4A (1.4404)	PA	TPE 2 m	-	•
BI3U-M12E-VP4X	1580203 ✘	S007	3	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BI3U-M12E-VN4X	1580302	S010	3	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BI3U-EM12E-VN4X	1580362	S010	3	-30...+85	IP68	V2A (1.4301)	PBT	PVC 2 m	-	•
BI2U-M12E-AD4X	4405062 ✘	S013	0.01	0...+70	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
BI2-M12-AZ31X	13030 ✘	S092	0.02	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI8-G12K-AD4X	4411230	S013	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI5-G12-Y1X	40101 ✘	S025	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI5-EG12-Y1X/S100 7M	4012008 ✘	S025	2	-25...+100	IP67	V2A (1.4301)	PA	PVC 7 m	-	•
NI5-G12K-AP6X	46703 ✘	S001	1.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI5-G12K-AN6X	46713 ✘	S004	1.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI2-P12-Y1X	40300 ✘	S025	5	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI2-P12-Y1X/S97	4030021	S025	5	-40...+70	IP67	PA	PA	Silicone 2 m	-	•







Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M12 x 1 	Ex II 2 G Ex II 1 D T +100°C	2, 	NAMUR	nom. 8.2 VDC	–
		Ex II 2 G Ex II 1 D	5, 	NAMUR	nom. 8.2 VDC	–
		Ex II 2 G Ex II 1 D T -40°C	5, 	NAMUR	nom. 8.2 VDC	–
		Ex II 2 G Ex II 1 D T +100°C	5, 	NAMUR	nom. 8.2 VDC	–

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI2-P12-Y1/S100	10302 x	S025	5	-25...+100	IP67	PA	PA	PVC 2 m	-	-
NI5-P12-Y1X	40301 x	S025	2	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI5-P12-Y1X/S97	1009402	S025	2	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
NI5-P12-Y1/S100	10242	S025	2	-25...+100	IP67	PA	PA	PVC 2 m	-	-

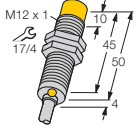
















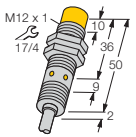



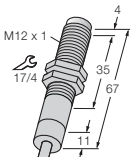



Sensortechnik/Sensors/
Détecteurs

x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M12 x 1 	uprox®+	10, 	—, PNP	10...30 VDC	200 DC, (K)
		uprox®+	10, 	—, NPN	10...30 VDC	200 DC, (K)
		uprox®	8, 	—, PNP	10...30 VDC	200 DC, (K)
		uprox®	8, 	—, NPN	10...30 VDC	200 DC, (K)
		uprox®	8, 	—, PNP	10...30 VDC	200 DC, (K)
		uprox®	8, 	—, NPN	10...30 VDC	200 DC, (K)
		—	8, 	—	10...65 VDC	100 DC, (K)
		—	4, 	—, PNP	10...30 VDC	200 DC, (K)
		—	4, 	—, PNP	10...30 VDC	200 DC, (K)
		—	4, 	—, PNP	10...30 VDC	200 DC, (K)
		T +100°C	4, 	—, PNP	10...30 VDC	200 DC, (K)
		—	4, 	—, NPN	10...30 VDC	200 DC, (K)
		—	4, 	—, NPN	10...30 VDC	200 DC, (K)
		—	4, 	—, NPN	10...30 VDC	200 DC, (K)
		—	4, 	—	10...65 VDC	100 DC, (K)
	M12 x 1 	20 bar uprox®+ wash down T -40°C T +100°C	10, 	—, PNP	10...30 VDC	200 DC, (K)
		20 bar uprox®+ wash down T -40°C T +100°C	10, 	—, NPN	10...30 VDC	200 DC, (K)
	M12 x 1 	T +120°C wash down	4, 	—, PNP	10...30 VDC	200 DC, (K)
		20 bar wash down T -60°C	4, 	—, PNP	10...30 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI10U-M12-AP6X	1634805 ✘	S001	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
NI10U-M12-AN6X	1634825 ✘	S004	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
NI8U-M12-AP6X	1644100 ✘	S001	2	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
NI8U-EM12-AP6X	1644300 ✘	S001	2	-30...+85	IP68	V2A (1.4301)	PBT	PVC 2 m	-	•
NI8U-M12-AN6X	1644120 ✘	S004	2	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
NI8U-EM12-AN6X	1644320	S004	2	-30...+85	IP68	V2A (1.4301)	PBT	PVC 2 m	-	•
NI8-M12-AD4X	4411235 ✘	S013	1	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI4-M12-AP6X	46052 ✘	S001	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI4-M12-VP6X	16304 ✘	S007	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI4-EM12-VP6X 7M	1630233 ✘	S007	2	-25...+70	IP67	V2A (1.4301)	PA	PVC 7 m	-	•
NI4-M12-AP6X/S100	4605201 ✘	S001	2	-25...+100	IP67	CuZn-Cr	PA-X	PVC 2 m	-	•
NI4-M12-AN6X	46053 ✘	S004	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI4-M12-VN6X	16404 ✘	S010	2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI4-EM12-VN6X 7M	1630232	S010	2	-25...+70	IP67	V2A (1.4301)	PA	PVC 7 m	-	•
NI4-M12-AD4X	44052 ✘	S013	1	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI10U-EM12WD-AP6X	1634813 ✘	S001	1	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	PP 2 m	-	•
NI10U-EM12WD-AN6X	1634838	S004	1	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	PP 2 m	-	•
NI4-EM12D-AP6/S120	1633110 ✘	S001	0.1	-25...+120	IP68 / IP69K	V4A (1.4571)	PTFE	PTFE 2 m	-	-
NI4-EM12WD-AP6/S929	1633111	S001	1	-60...+60	IP68 / IP69K	V4A (1.4571)	PTFE	FEP 2 m	-	-

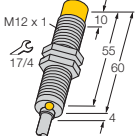










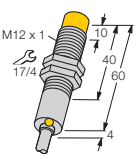


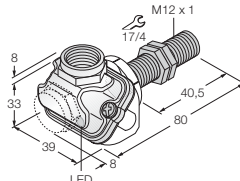


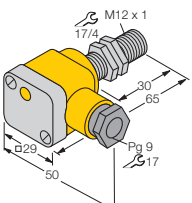












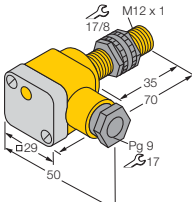












Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M12 x 1	uprox®+	10, 	 , PNP	10...55 VDC	200 DC, (K)
		uprox®+	10, 	 , NPN	10...55 VDC	200 DC, (K)
		uprox®	8, 	 , PNP	10...65 VDC	200 DC, (K)
		uprox®	8, 	 , NPN	10...65 VDC	200 DC, (K)
		uprox®+	5, 		10...65 VDC	100 DC, (K)
	M12 x 1	-	4, 		20...250 VAC 10...300 VDC	100 AC 100 mA
	M12 x 1	20 bar uprox®+ wash down	4, 	 , PNP	10...30 VDC	200 DC, (K)
	M12 x 1	 II 1 G  II 1 D	2, 	NAMUR	nom. 8.2 VDC	-
		 II 1 G  II 1 D	2, 	NAMUR	nom. 8.2 VDC	-
		 II 2 G  II 1 D	5, 	NAMUR	nom. 8.2 VDC	-
		 II 2 G  II 1 D	5, 	NAMUR	nom. 8.2 VDC	-
	M12 x 1	uprox®	3, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	3, 	 , PNP	10...65 VDC	200 DC, (K)
		uprox®	3, 	 , NPN	10...30 VDC	200 DC, (K)
		uprox®	3, 	 , NPN	10...65 VDC	200 DC, (K)
		-	2, 	 , PNP	10...30 VDC	200 DC, (K)
		-	2, 	 , NPN	10...30 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Face active	Matériaux Kabel Câble	LED U _B	LED └┘
NI10U-M12E-VP44X	1634870 ✘	S007	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
NI10U-M12E-VN44X	1634874	S010	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
NI8U-M12E-VP4X	1580406 ✘	S007	2	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
NI8U-M12E-VN4X	1580501 ✘	S010	2	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
NI5U-M12E-AD4X	4405064 ✘	S013	0.01	0...+70	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
NI4-M12-AZ31X	13032 ✘	S092	0.02	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI4U-EM12WDTC-AP6X	1634760 ✘	S003	2	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
BI2-G12SK-Y1X	40110 ✘	S027	5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI2-EG12SK-Y1X	4012050 ✘	S027	5	-25...+70	IP67	V2A (1.4301)	PA	-	-	•
BI2-P12SK-Y1X	40310 ✘	S027	5	-25...+70	IP67	PA	PA	-	-	•
NI5-P12SK-Y1X	40311 ✘	S027	2	-25...+70	IP67	PA	PA	-	-	•
BI3U-EG12SK-AP6X	1634400 ✘	S003	3	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI3U-EG12SK-VP4X	1580601 ✘	S009	3	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI3U-EG12SK-AN6X	1634420	S006	3	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI3U-EG12SK-VN4X	1580701	S012	3	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI2-G12SK-AP6X	46360 ✘	S003	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI2-G12SK-AN6X	46361	S006	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•

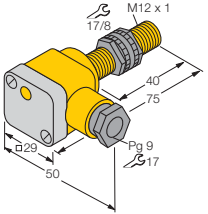









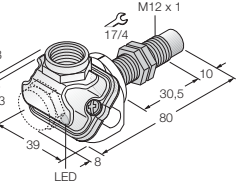


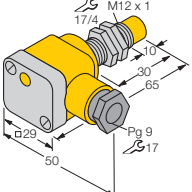





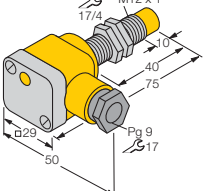







Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M12 x 1 	uprox®	3, 	—, PNP	10...30 VDC	200 DC, (K)
		uprox®	3, 	—, NPN	10...30 VDC	200 DC, (K)
		—	2, 	—, PNP	10...30 VDC	200 DC, (K)
		—	2, 	—, NPN	10...30 VDC	200 DC, (K)
		uprox®	8, 	—, PNP	10...30 VDC	200 DC, (K)
		uprox®	8, 	—, NPN	10...30 VDC	200 DC, (K)
		—	5, 	—, PNP	10...30 VDC	200 DC, (K)
		—	5, 	—, NPN	10...30 VDC	200 DC, (K)
	M12 x 1 	20 bar uprox®+ wash down	10, 	—, PNP	10...30 VDC	200 DC, (K)
	M12 x 1 	⊕ II 1 G	5, 	NAMUR	nom. 8.2 VDC	—
		⊕ II 1 D	5, 	NAMUR	nom. 8.2 VDC	—
		⊕ II 1 G	5, 	NAMUR	nom. 8.2 VDC	—
		⊕ II 1 D, SIL2	5, 	NAMUR	nom. 8.2 VDC	—
	M12 x 1 	uprox®	8, 	—, PNP	10...30 VDC	200 DC, (K)
		uprox®	8, 	—, PNP	10...65 VDC	200 DC, (K)
		uprox®	8, 	—, NPN	10...30 VDC	200 DC, (K)
		uprox®	8, 	—, NPN	10...65 VDC	200 DC, (K)
		—	5, 	—, PNP	10...30 VDC	200 DC, (K)
		—	5, 	—, NPN	10...30 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI3U-P12SK-AP6X	1634700 ✘	S003	3	-30...+85	IP68	PA	PA	-	-	•
BI3U-P12SK-AN6X	1634720	S006	3	-30...+85	IP68	PA	PA	-	-	•
BI2-P12SK-AP6X	46535 ✘	S003	2	-25...+70	IP67	PA	PA	-	-	•
BI2-P12SK-AN6X	46536	S006	2	-25...+70	IP67	PA	PA	-	-	•
NI8U-P12SK-AP6X	1644700 ✘	S003	2	-30...+85	IP68	PA	PA	-	-	•
NI8U-P12SK-AN6X	1644720	S006	2	-30...+85	IP68	PA	PA	-	-	•
NI5-P12SK-AP6X	46537 ✘	S003	1.5	-25...+70	IP67	PA	PA	-	-	•
NI5-P12SK-AN6X	46538	S006	1.5	-25...+70	IP67	PA	PA	-	-	•
NI10U-EM12WDTC-AP6X	1634761 ✘	S003	1	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
NI5-G12SK-Y1X	40111 ✘	S027	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI5-EG12SK-Y1X	4012140 ✘	S027	2	-25...+70	IP67	V2A (1.4301)	PA	-	-	•
NI8U-EG12SK-AP6X	1644400 ✘	S003	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
NI8U-EG12SK-VP4X	1580901 ✘	S009	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
NI8U-EG12SK-AN6X	1644420	S006	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
NI8U-EG12SK-VN4X	1580902	S012	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
NI5-G12SK-AP6X	46362 ✘	S003	1.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI5-G12SK-AN6X	46363 ✘	S006	1.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•

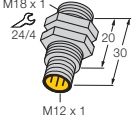


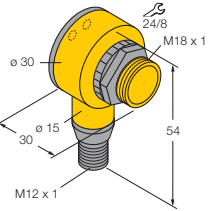



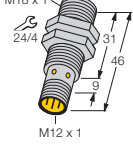


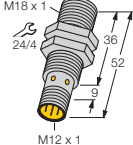

















Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M18 x 1 	–	5, 	 , PNP	10...30 VDC	200 DC, (K)
	M18 x 1 	uprox®	5, 	 , PNP	10...30 VDC	200 DC, (K)
	M18 x 1 	Sn +	8, 	 , PNP	10...30 VDC	200 DC, (K)
	M18 x 1 	uprox®+	8, 	 , PNP	10...30 VDC	200 DC, (K)
		teflon	8, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®+	8, 	 , PNP	10...30 VDC	200 DC, (K)
		15 bar	8, 	 , PNP	10...30 VDC	200 DC, (K)
		wash down T -40°C T +100°C	8, 	 , PNP	10...30 VDC	200 DC, (K)
		Ex II 3 G Ex II 3 D 15 bar uprox®+	8, 	 , PNP	10...30 VDC	200 DC, (K)
	wash down					
	uprox®+		8, 	 , NPN	10...30 VDC	200 DC, (K)
	uprox®+		8, 	 , NPN	10...30 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI5-G18KK-AP6-H1141	4670410 ✘	S002	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	-
BI5U-T18-AP6X2-H1141	1635136 ✘	S002	2	-30...+85	IP68	PBT	PBT	-	•	•
BI8-M18K-AP6X-H1141	4615050 ✘	S002	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI8U-M18-AP6X-H1141	1644731 ✘	S002	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI8U-MT18-AP6X-H1141	1644730 ✘	S002	1.5	-30...+85	IP68	CuZn-T	LCP	-	-	•
BI8U-EM18WD-AP6X-H1141	1634816 ✘	S002	1.5	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
BI8U-EM18WD-AP6X-H1141/3GD	1634853 ✘	S002	1.5	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
BI8U-M18-RP6X-H1141	1644750 ✘	S056	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI8U-M18-AN6X-H1141	1644737 ✘	S005	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•

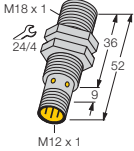









































Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M18 x 1					
		teflon uprox®+	8, 	 , NPN	10...30 VDC	200 DC, (K)
		15 bar uprox®+ wash down T -40°C T +100°C	8, 	 , NPN	10...30 VDC	200 DC, (K)
		Ex II 3 G Ex II 3 D 15 bar uprox®+ wash down	8, 	 , NPN	10...30 VDC	200 DC, (K)
		Sn +	8, 	 , PNP	10...30 VDC	200 DC, (K)
		e1, load dump T +85°C T -40°C 100 V/m, 100 mA BCI Sn +	8, 	 , PNP	8.4...65 VDC	200 DC, (K)
		Sn +	8, 	 , PNP	10...65 VDC	200 DC, (K)
		Sn +	8, 	 , NPN	10...30 VDC	200 DC, (K)
		-	7, 		10...65 VDC	100 DC, (K)
		uprox®	5, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	5, 	 , PNP	10...30 VDC	200 DC, (K)
		teflon uprox®	5, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	5, 	 , NPN	10...30 VDC	200 DC, (K)
		uprox®	5, 	 , NPN	10...30 VDC	200 DC, (K)
		teflon uprox®	5, 	 , NPN	10...30 VDC	200 DC, (K)
		Ex II 1 G Ex II 1 D	5, 	NAMUR	nom. 8.2 VDC	-
		Ex II 1 G Ex II 1 D	5, 	NAMUR	nom. 8.2 VDC	-
		-	5, 	 , PNP	10...30 VDC	200 DC, (K)
		-	5, 	 , PNP	10...65 VDC	200 DC, (K)
		-	5, 	 , NPN	10...30 VDC	200 DC, (K)
	-	5, 	 , NPN	10...65 VDC	200 DC, (K)	
	-	5, 		10...65 VDC	100 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI8U-MT18-AN6X-H1141	1644739	S005	1.5	-30...+85	IP68	CuZn-T	LCP	-	-	•
BI8U-EM18WD-AN6X-H1141	1634839	S005	1.5	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
BI8U-EM18WD-AN6X- H1141/3GD	1634854	S005	1.5	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
BI8-M18-AP6X-H1141	46150 ✘	S002	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI8-EM18-AP45XLD-H1141	1584010 ✘	S002	0.5	-40...+85	IP68 / IP69K	V4A (1.4404)	PA	-	-	•
BI8-M18-VP4X-H1141	4590701	S008	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI8-M18-AN6X-H1141	4615100	S005	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI7-M18-AD4X-H1141	4414541 ✘	S014	1	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI5U-M18-AP6X-H1141	1635140 ✘	S002	2.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI5U-EM18-AP6X-H1141	1635340 ✘	S002	2.5	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI5U-MT18-AP6X-H1141	1635240 ✘	S002	0.25	-30...+85	IP67	CuZn-T	PBT	-	-	•
BI5U-M18-AN6X-H1141	1635150 ✘	S005	2.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI5U-EM18-AN6X-H1141	1635350 ✘	S005	2.5	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI5U-MT18-AN6X-H1141	1635250	S005	2.5	-30...+85	IP67	CuZn-T	PBT	-	-	•
BI5-M18-Y1X-H1141	40152 ✘	S026	1	-25...+70	IP67	CuZn-Cr	PBT	-	-	•
BI5-EM18-Y1X-H1141	4015202 ✘	S026	1	-25...+70	IP67	V2A (1.4301)	PA	-	-	•
BI5-M18-AP6X-H1141	46145 ✘	S002	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI5-M18-VP4X-H1141	15618 ✘	S008	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI5-M18-AN6X-H1141	46146 ✘	S005	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI5-M18-VN4X-H1141	15718 ✘	S011	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI5-M18-AD4X-H1141	44145 ✘	S014	1	-25...+70	IP67	CuZn-Cr	PA	-	-	•

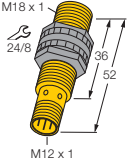











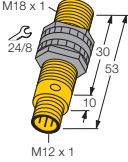











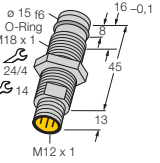





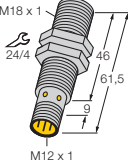























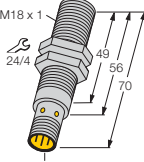



 Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M18 x 1	uprox®	5, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	5, 	 , NPN	10...30 VDC	200 DC, (K)
		uprox®	12, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	12, 	 , NPN	10...30 VDC	200 DC, (K)
	M18 x 1	-	5, 	 , PNP	10...30 VDC	200 DC, (K)
		-	5, 	 , NPN	10...30 VDC	200 DC, (K)
		-	8, 	 , PNP	10...30 VDC	200 DC, (K)
		-	8, 	 , NPN	10...30 VDC	200 DC, (K)
	M18 x 1	500 bar	2, 	 , PNP	10...30 VDC	200 DC, (K)
		100 bar	2, 	 , PNP	10...30 VDC	200 DC, (K)
	M18 x 1	uprox®+	8, 	 , PNP	10...55 VDC	200 DC, (K)
		15 bar	8, 	 , PNP	10...55 VDC	200 DC, (K)
		uprox®+	8, 	 , PNP	10...55 VDC	200 DC, (K)
		wash down	8, 	 , NPN	10...55 VDC	200 DC, (K)
		uprox®	5, 	 , PNP	10...65 VDC	200 DC, (K)
		uprox®	5, 	 , NPN	10...65 VDC	200 DC, (K)
		uprox®+	5, 		10...65 VDC	100 DC, (K)
		teflon	5, 		10...65 VDC	100 DC, (K)
	M18 x 1	selective FE	5, 	 , PNP	10...30 VDC	200 DC, (K)
						

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI5U-S18-AP6X-H1141	1635600 ✘	S002	2.5	-30...+85	IP68	PBT	PBT	-	-	•
BI5U-S18-AN6X-H1141	1635620	S005	2.5	-30...+85	IP68	PBT	PBT	-	-	•
NI12U-S18-AP6X-H1141	1645600 ✘	S002	2	-30...+85	IP68	PBT	PBT	-	-	•
NI12U-S18-AN6X-H1141	1645620	S005	2	-30...+85	IP68	PBT	PBT	-	-	•
BI5-S18-AP6X-H1141	46524 ✘	S002	1	-25...+70	IP67	PA	PA	-	-	•
BI5-S18-AN6X-H1141	46525	S005	0.5	-25...+70	IP67	PA	PA	-	-	•
NI8-S18-AP6X-H1141	46526 ✘	S002	0.5	-25...+70	IP67	PA	PA	-	-	•
NI8-S18-AN6X-H1141	46527 ✘	S005	0.5	-25...+70	IP67	PA	PA	-	-	•
BID2-G180-AP6-H1141/S212	16885 ✘	S002	2	-25...+70	IP67	V2A (1.4305)	PA	-	-	-
BID2-G180-AP6-H1141/S220	1688501	S002	2	-25...+70	IP67	V2A (1.4305)	PA	-	-	-
BI8U-M18M-VP44X-H1141	1634877 ✘	S179	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI8U-EM18MWD-VP44X-H1141	1634897	S008	1.5	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
BI8U-M18M-VN44X-H1141	1634881 ✘	S011	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI5U-M18M-VP4X-H1141	1581255 ✘	S008	2.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI5U-M18M-VN4X-H1141	1581311	S011	2.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI5U-M18M-AD4X-H1144	4405066 ✘	S179	0.01	-25...+70	IP68	CuZn-Cr	LCP	-	-	•
BI5U-MT18M-AD4X-H1144	4405068 ✘	S179	0.01	-25...+70	IP68	CuZn-T	LCP	-	-	•
BI5FE-M18FE-AP6X-H1141	1615009 ✘	S002	0.025	0...+60	IP67	CuZn-OP	VA	-	-	•

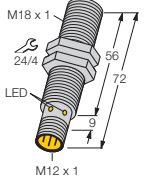


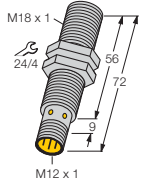












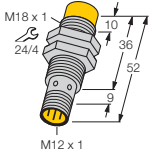














Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M18 x 1	Sn +	8, 	 , PNP	10...30 VDC	200 DC, (K)
						
	M18 x 1	teflon uprox®+	8, 	 , PNP	10...30 VDC	200 DC, (K)
		teflon uprox®	5, 	 , PNP	10...30 VDC	200 DC, (K)
		-	5, 	 , PNP	10...65 VDC	200 DC, (K)
		harsh selective NF	5, 	 , PNP	10...30 VDC	200 DC, (K)
		harsh selective NF	5, 	 , NPN	10...30 VDC	200 DC, (K)
	M18 x 1	teflon uprox®+	5, 		10...65 VDC	100 DC, (K)
						
	M18 x 1	uprox®+	15, 	 , PNP	10...30 VDC	200 DC, (K)
		teflon uprox®+	15, 	 , PNP	10...30 VDC	200 DC, (K)
		15 bar uprox®+	15, 	 , PNP	10...30 VDC	200 DC, (K)
		wash down T -40°C T +100°C				
		II 3 D 15 bar uprox®+	15, 	 , PNP	10...30 VDC	200 DC, (K)
		wash down				
		uprox®+	15, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®+	15, 	 , NPN	10...30 VDC	200 DC, (K)
	teflon, uprox®+	15, 	 , NPN	10...30 VDC	200 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials Matériaux (IEC 852)	Gehäuse Housing Boîtier	Aktive Fläche Active face Face active	Kabel Cable Câble	LED U _B	LED └┘
BI8-M18-AP6X-H1141/S58	4615004 ✘	S002	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	-	•
BI8U-MT18E-AP6X-H1141	1644752	S002	2.5	-30...+85	IP68	CuZn-T	LCP	-	-	-	•
BI5U-MT18E-AP6X-H1141	1635248 ✘	S002	2.5	-30...+85	IP67	CuZn-T	PBT	-	-	-	•
BI5-M18E-VP4X-H1141	1561811 ✘	S008	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	-	•
BI5NF-EM18HE-AP6X2-H1141	1615000 ✘	S002	2.5	0...+60	IP67	V2A (1.4301)	DURO	-	-	•	•
BI5NF-EM18HE-AN6X2-H1141	1615004	S005	2.5	0...+60	IP67	V2A (1.4301)	DURO	-	-	•	•
BI5U-MT18M-AD4X-0,3-RS4.23/XOR	4405049 ✘	S179	0.01	-25...+70	IP68	CuZn-T	LCP	PVC 0.3 m	-	-	•
NI15U-M18-AP6X-H1141	1635331 ✘	S002	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	-	•
NI15U-MT18-AP6X-H1141	1635333 ✘	S002	1	-30...+85	IP68	CuZn-T	LCP	-	-	-	•
NI15U-EM18WD-AP6X-H1141	1634818 ✘	S002	1	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	-	•
NI15U-EM18WD-AP6X-H1141/3D	1634859 ✘	S002	1	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	-	•
NI15U-M18-RP6X-H1141	1635450 ✘	S056	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	-	•
NI15U-M18-AN6X-H1141	1635335 ✘	S005	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	-	•
NI15U-MT18-AN6X-H1141	1635337	S005	1	-30...+85	IP68	CuZn-T	LCP	-	-	-	•

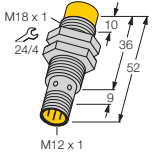


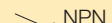


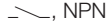

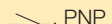



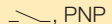



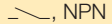

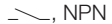







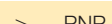

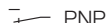

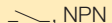


Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
	M18 x 1						
		15 bar uprox®+ wash down T -40°C T +100°C	15, 	 , NPN	10...30 VDC	200 DC, (K)	
		II 3 D 15 bar uprox®+ wash down	15, 	 , NPN	10...30 VDC	200 DC, (K)	
		uprox®	12, 	 , PNP	10...30 VDC	200 DC, (K)	
		teflon uprox®	12, 	 , PNP	10...30 VDC	200 DC, (K)	
		uprox®	12, 	 , PNP	10...30 VDC	200 DC, (K)	
		uprox®	12, 	 , NPN	10...30 VDC	200 DC, (K)	
		teflon uprox®	12, 	 , NPN	10...30 VDC	200 DC, (K)	
		uprox®	12, 	 , NPN	10...30 VDC	200 DC, (K)	
		 	10, 	NAMUR	nom. 8.2 VDC	-	
		 	10, 	NAMUR	nom. 8.2 VDC	-	
		-	8, 	 , PNP	10...30 VDC	200 DC, (K)	
		-	8, 	 , PNP	10...65 VDC	200 DC, (K)	
		-	8, 	 , NPN	10...30 VDC	200 DC, (K)	
	-	8, 		10...65 VDC	100 DC, (K)		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
NI15U-EM18WD-AN6X-H1141	1634835	S005	1	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
NI15U-EM18WD-AN6X-H1141/3D	1634860	S005	1	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
NI12U-M18-AP6X-H1141	1645140 ✘	S002	2	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
NI12U-MT18-AP6X-H1141	1645240 ✘	S002	2	-30...+85	IP67	CuZn-T	PBT	-	-	•
NI12U-EM18-AP6X-H1141	1645340 ✘	S002	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
NI12U-M18-AN6X-H1141	1645150 ✘	S005	2	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
NI12U-MT18-AN6X-H1141	1645250 ✘	S005	2	-30...+85	IP67	CuZn-T	PBT	-	-	•
NI12U-EM18-AN6X-H1141	1645350 ✘	S005	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
NI10-M18-Y1X-H1141	40153 ✘	S026	0.5	-25...+70	IP67	CuZn-Cr	PBT	-	-	•
NI10-EM18-Y1X-H1141	1006261 ✘	S026	0.5	-25...+70	IP67	V2A (1.4301)	PBT	-	-	•
NI8-M18-AP6X-H1141	46147 ✘	S002	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI8-M18-VP4X-H1141	15619 ✘	S008	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI8-M18-AN6X-H1141	46148 ✘	S005	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI8-M18-AD4X-H1141	44147 ✘	S014	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•

Sensortechnik/Sensors/
Détecteurs

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Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M18 x 1	uprox®+	15, 	10...55 VDC	200 DC, (K)	
		15 bar uprox®+ wash down	15, 	10...55 VDC	200 DC, (K)	
		uprox®+	15, 	10...55 VDC	200 DC, (K)	
		uprox®	12, 	10...65 VDC	200 DC, (K)	
		uprox®	12, 	10...65 VDC	200 DC, (K)	
		uprox®+	10, 	10...65 VDC	100 DC, (K)	
		teflon uprox®+	10, 	10...65 VDC	100 DC, (K)	
	M18 x 1	uprox®	12, 	10...30 VDC	200 DC, (K)	
						
	M18 x 1	uprox®	5, 	20...250 VAC 10...300 VDC	400 AC 300 DC, (K)	
						
	M18 x 1	uprox®	12, 	20...250 VAC 10...300 VDC	400 AC 300 DC, (K)	
						
	M18 x 1	-	5, 	10...30 VDC	200 DC, (K)	
		-	5, 	10...30 VDC	200 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials Matériaux	Materials (IEC 852)	Matériaux	LED	LED
						Gehäuse Housing Boîtier	Aktive Fläche Active face Face active	Kabel Cable Câble	U _B	└┘
NI15U-M18M-VP44X-H1141	1634879 ✘	S008	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI15U-EM18MWD-VP44X-H1141	1634898	S008	1	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
NI15U-M18M-VN44X-H1141	1634883 ✘	S011	1	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI12U-M18M-VP4X-H1141	1581458 ✘	S008	2	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
NI12U-M18M-VN4X-H1141	1581552 ✘	S011	2	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
NI10U-M18M-AD4X-H1144	4405069 ✘	S179	0.01	-25...+70	IP68	CuZn-Cr	LCP	-	-	•
NI10U-MT18M-AD4X-H1144	4405071 ✘	S179	0.01	-25...+70	IP68	CuZn-T	LCP	-	-	•
NI12U-M18E-AP6X-H1141	1645143 ✘	S002	2	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI5U-G18-ADZ30X2-B3331	4281213	S153	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	•	•
NI12U-G18-ADZ30X2-B3331	4281413	S153	0.02	-30...+85	IP67	CuZn-Cr	PA	-	•	•
BI5-G18-AP6X-B1341	46963 ✘	S002	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI5-G18-AN6X-B1341	46952 ✘	S005	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•

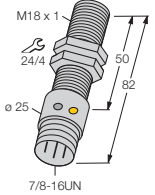



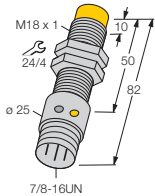



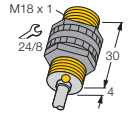

















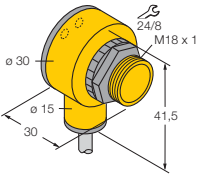



Sensortechnik/Sensors/
DéTECTEURS

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
	M18 x 1 	uprox® 5, 		20...250 VAC 10...300 VDC	400 AC 300 DC, (K)		
	M18 x 1 	uprox® 12, 		20...250 VAC 10...300 VDC	400 AC 300 DC, (K)		
	M18 x 1 	 II 2 G  II 1 D  II 2 G  II 1 D T -40°C  II 2 G  II 1 D T +100°C  II 2 G  II 1 D T -40°C  II 2 G  II 1 D T +100°C	5,  5,  5,  10,  10,  10, 	NAMUR NAMUR NAMUR NAMUR NAMUR NAMUR	nom. 8.2 VDC nom. 8.2 VDC nom. 8.2 VDC nom. 8.2 VDC nom. 8.2 VDC nom. 8.2 VDC	- - - - - -	
	M18 x 1 	uprox® 5, 	 , PNP	10...30 VDC	200 DC, (K)		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI5U-G18-ADZ30X2-B1331	4281212 ✘	S153	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	•	•
NI12U-G18-ADZ30X2-B1331	4281412 ✘	S153	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	•	•
BI5-P18-Y1X	40350 ✘	S025	1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI5-P18-Y1X/S97	4035001	S025	1	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
BI5-P18-Y1/S100	10245 ✘	S025	1	-25...+100	IP67	PA	PA	PVC 2 m	-	-
NI10-P18-Y1X	40351 ✘	S025	0.5	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI10-P18-Y1X/S97	4035121	S025	0.5	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
NI10-P18-Y1/S100	10317 ✘	S025	0.5	-25...+100	IP67	PA	PA	PVC 2 m	-	-
BI5U-T18-AP6X2/S90	1635135	S001	2	-30...+85	IP68	PBT	PBT	PUR 2 m	•	•

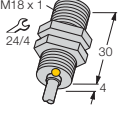





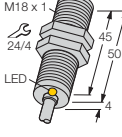













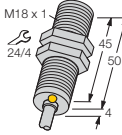





Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M18 x 1	–	–	10...65 VDC	100 DC, (K)	
		Ex II 1 G	5, 	NAMUR	nom. 8.2 VDC	–
		Ex II 1 D	–	–	–	–
		Ex II 1 G	5, 	NAMUR	nom. 8.2 VDC	–
		Ex II 1 D	–	–	–	–
		SIL2 T +100°C	–	–	–	–
		–	5, 	–, PNP	10...30 VDC	200 DC, (K)
–	5, 	–, NPN	10...30 VDC	200 DC, (K)		
	M18 x 1	uprox®+	8, 	–, PNP	10...30 VDC	200 DC, (K)
		e1, load dump T +85°C T -40°C 100 V/m, 100 mA BCI Sn +	8, 	–, PNP	8.4...65 VDC	200 DC, (K)
		uprox®+	8, 	–, NPN	10...30 VDC	200 DC, (K)
		–	7, 	–	10...65 VDC	100 DC, (K)
		uprox®	5, 	–, PNP	10...30 VDC	200 DC, (K)
		uprox®	5, 	–, NPN	10...30 VDC	200 DC, (K)
		–	5, 	–, PNP	10...30 VDC	200 DC, (K)
		T +100°C	5, 	–, PNP	10...30 VDC	200 DC, (K)
		–	5, 	–, PNP	10...65 VDC	200 DC, (K)
		–	5, 	–, NPN	10...30 VDC	200 DC, (K)
		–	5, 	–, NPN	10...65 VDC	200 DC, (K)
		–	5, 	–	10...65 VDC	100 DC, (K)
			M18 x 1	uprox®	5, 	–, PNP
	uprox®		5, 	–, NPN	10...30 VDC	200 DC, (K)
	–		5, 	–, PNP	10...65 VDC	200 DC, (K)
	–		5, 	–, NPN	10...65 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials Matériaux (IEC 852)	Gehäuse Housing Boîtier	Aktive Fläche Active face Face active	Kabel Cable Câble	LED U _B	LED └┘
BI7-G18K-AD4X	4414540 ✘	S013	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•	
BI5-G18-Y1X	40150 ✘	S025	1	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•	
BI5-EG18-Y1X/S100 7M	4012007 ✘	S025	1	-25...+100	IP67	V2A (1.4301)	PA	PVC 7 m	-	•	
BI5-G18K-AP6X	46704 ✘	S001	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•	
BI5-G18K-AN6X	46714	S004	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•	
BI8U-M18-AP6X	1644733 ✘	S001	1.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•	
BI8-EM18-AP45XLD	1584011 ✘	S001	0.5	-40...+85	IP68 / IP69K	V4A (1.4404)	PA	TPE 2 m	-	•	
BI8U-M18-AN6X	1644736	S004	1.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•	
BI7-M18-AD4X	4414535 ✘	S013	1	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•	
BI5U-M18-AP6X	1635100 ✘	S001	2.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•	
BI5U-M18-AN6X	1635120 ✘	S004	2.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•	
BI5-M18-AP6X	46110 ✘	S001	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•	
BI5-M18-AP6X/S100	4611004 ✘	S001	0.5	-25...+100	IP67	CuZn-Cr	PA-X	PVC 2 m	-	•	
BI5-M18-VP4X	15611 ✘	S007	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•	
BI5-M18-AN6X	46111 ✘	S004	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•	
BI5-M18-VN4X	15711 ✘	S010	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•	
BI5-M18-AD4X	44110 ✘	S013	1	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•	
BI5U-EM18-AP6X	1635300 ✘	S001	2.5	-30...+85	IP68	V2A (1.4301)	PBT	PVC 2 m	-	•	
BI5U-EM18-AN6X	1635320 ✘	S004	2.5	-30...+85	IP68	V2A (1.4301)	PBT	PVC 2 m	-	•	
BI5-EM18-VP4X 7M	1561130 ✘	S007	0.5	-25...+70	IP67	V2A (1.4301)	PA	PVC 7 m	-	•	
BI5-EM18-VN4X 7M	1561131	S010	0.5	-25...+70	IP67	V2A (1.4301)	PA	PVC 7 m	-	•	

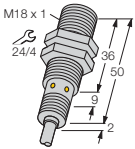





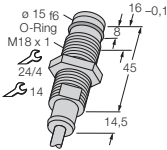





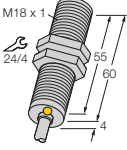













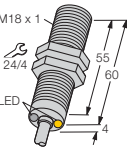



Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M18 x 1 	15 bar uprox@+ wash down T -40°C T +100°C	8, 	 , PNP	10...30 VDC	200 DC, (K)
		15 bar uprox@+ wash down T -40°C T +100°C	8, 	 , NPN	10...30 VDC	200 DC, (K)
	M18 x 1 	500 bar	2, 	 , PNP	10...30 VDC	200 DC, (K)
		100 bar	2, 	 , PNP	10...30 VDC	200 DC, (K)
	M18 x 1 	uprox@+	8, 	 , PNP	10...55 VDC	200 DC, (K)
		uprox@+	8, 	 , NPN	10...55 VDC	200 DC, (K)
		uprox@	5, 	 , PNP	10...65 VDC	200 DC, (K)
		uprox@	5, 	 , NPN	10...65 VDC	200 DC, (K)
		-	5, 		20...250 VAC 10...300 VDC	400 AC 300 mA
		uprox@+	5, 		10...65 VDC	100 DC, (K)
	M18 x 1 	uprox@	5, 		20...250 VAC 10...300 VDC	400 AC 300 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI8U-EM18WD-AP6X	1634815 ✘	S001	1.5	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	PP 2 m	-	•
BI8U-EM18WD-AN6X	1634840	S004	1.5	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	PP 2 m	-	•
BID2-G180-AP6/S212	1688003 ✘	S001	2	-25...+70	IP67	V2A (1.4305)	PA	PVC 2 m	-	-
BID2-G180-AP6/S220	16880	S001	2	-25...+70	IP67	V2A (1.4305)	PA	PVC 2 m	-	-
BI8U-M18M-VP44X	1634876 ✘	S007	1.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
BI8U-M18M-VN44x	1634880	S010	1.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
BI5U-M18M-VP4X	1581201 ✘	S007	2.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BI5U-M18M-VN4X	1581310	S010	2.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BI5-M18-AZ3X	43104 ✘	S155	0.02	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI5U-M18M-AD4X	4405067 ✘	S013	0.01	-25...+70	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
BI5U-M18-ADZ30X2	4282210 ✘	S155	0.02	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•

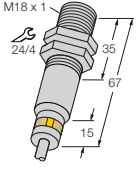



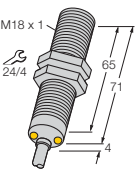









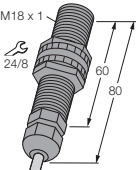


















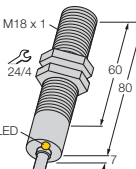





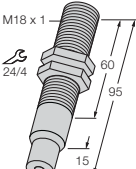



Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M18 x 1 	15 bar wash down T -60°C	5, 	 , PNP	10...30 VDC	200 DC, (K)
	M18 x 1 	rotation monitoring	5, 	 , PNP	10...65 VDC	200 DC, (K)
		rotation monitoring	5, 	 , PNP	10...65 VDC	200 DC, (K)
		rotation monitoring	5, 	 , PNP	10...65 VDC	200 DC, (K)
		rotation monitoring	5, 	 , PNP	10...65 VDC	200 DC, (K)
	M18 x 1 	underwater	5, 	 , PNP	10...30 VDC	200 DC, (K)
		underwater	5, 	 , NPN	10...30 VDC	200 DC, (K)
		underwater	5, 		20...250 VAC	400 AC
		 II 2 G  II 1 D underwater	8, 	NAMUR	nom. 8.2 VDC	-
		underwater	8, 	 , PNP	10...30 VDC	200 DC, (K)
		underwater	8, 	 , NPN	10...30 VDC	200 DC, (K)
		underwater	8, 		20...250 VAC	400 AC
		underwater	8, 		10...300 VDC	300 mA
	M18 x 1 	T +120°C	5, 	 , PNP	10...30 VDC	200 DC, (K)
		T +120°C	5, 		20...250 VAC	400 AC
	M18 x 1 	10 bar T +160°C	5, 	 , PNP	10...30 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI5-EM18WD-AP6X/S929	4614902	S001	1	-60...+60	IP68 / IP69K	V4A (1.4571)	PTFE	FEP 2 m	-	•
DBI5U-M18E-AP4X3	1582236 ✘	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
DBI5U-M18E-AP4X2 500/MIN	1582229	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
DTBI5U-M18E-AP4X3	1582237 ✘	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
DBI5U-M18E-AP4X2 50/MIN	1582239 ✘	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
BI5-P18-AP6/S139-S90	1660350	S001	0.5	-25...+70	IP68	POM	POM	PUR 2 m	-	-
BI5-P18-AN6/S139-S90	1660351	S004	0.5	-25...+70	IP68	POM	POM	PUR 2 m	-	-
BI5-P18-AZ3/S139-S90	13843	S092	0.02	-25...+70	IP68	POM	POM	PUR 2 m	-	-
NI8-P18-Y1/S139	1072501	S025	1	-25...+70	IP68	POM	POM	PVC 2 m	-	-
NI8-P18-AP6/S139-S90	1650082	S001	0.5	-25...+70	IP68	POM	POM	PUR 2 m	-	-
NI8-P18-AN6/S139-S90	1650083	S004	0.5	-25...+70	IP68	POM	POM	PUR 2 m	-	-
NI8-P18-AZ3/S139-S90	1350002	S092	0.02	-25...+70	IP68	POM	POM	PUR 2 m	-	-
BI5-M18-AP6X/S120	4611030 ✘	S001	0.1	-25...+120	IP67	CuZn-Cr	PA	Silicone 2 m	-	•
BI5-M18-AZ3X/S120	4310410 ✘	S092	0.02	-25...+120	IP67	CuZn-Cr	PA	Silicone 2 m	-	•
BI5-EM18-AP6/S907	4617425 ✘	S001	0.2	-25...+160	IP68 / IP69K	V4A (1.4571)	PEEK	PTFE 2 m	-	-

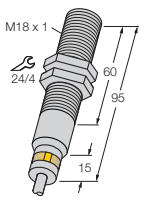







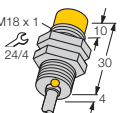












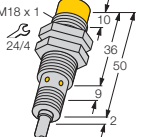





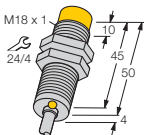










Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M18 x 1 	uprox®+	8, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®+	8, 	 , NPN	10...30 VDC	200 DC, (K)
		T +120°C, wash down	5, 	 , PNP	10...30 VDC	200 DC, (K)
	M18 x 1 	 II 1 G  II 1 D	14, 	NAMUR	nom. 8.2 VDC	-
		 II 1 G  II 1 D	10, 	NAMUR	nom. 8.2 VDC	-
		 II 1 G,  II 1 D, SIL2, T +100°C	10, 	NAMUR	nom. 8.2 VDC	-
		-	10, 	 , PNP	10...30 VDC	200 DC, (K)
	M18 x 1 	15 bar uprox®+ wash down T -40°C T +100°C	15, 	 , PNP	10...30 VDC	200 DC, (K)
		15 bar uprox®+ wash down T -40°C T +100°C	15, 	 , NPN	10...30 VDC	200 DC, (K)
	M18 x 1 	uprox®+	15, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®+	15, 	 , NPN	10...30 VDC	200 DC, (K)
		uprox®	12, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	12, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	12, 	 , NPN	10...30 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI8U-M18E-AP6X-H1141	1644735 ✘	S002	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI8U-M18E-AN6X-H1141	1644751	S005	1.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI5-EM18D-VP6X/S120	4614900 ✘	S007	0.1	-25...+120	IP68 / IP69K	V4A (1.4571)	PTFE	PTFE 2 m	-	•
NI14-G18-Y1X	4015401	S025	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI10-G18-Y1X	40151 ✘	S025	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI10-EG18-Y1X/S100 7M	4012006 ✘	S025	0.5	-25...+100	IP67	V2A (1.4301)	PA	PVC 7 m	-	•
NI10-G18K-AP6X	46705 ✘	S001	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI15U-EM18WD-AP6X	1634817 ✘	S001	1	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	PP 2 m	-	•
NI15U-EM18WD-AN6X	1634836	S004	1	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	PP 2 m	-	•
NI15U-M18-AP6X	1635330 ✘	S001	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
NI15U-M18-AN6X	1635334	S004	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
NI12U-M18-AP6X	1645100 ✘	S001	2	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
NI12U-EM18-AP6X	1645300 ✘	S001	2	-30...+85	IP68	V2A (1.4301)	PBT	PVC 2 m	-	•
NI12U-M18-AN6X	1645120 ✘	S004	2	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•

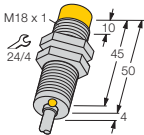



















**Sensortechnik/Sensors/
Détecteurs**

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M18 x 1	uprox®	12, 	 , NPN	10...30 VDC	200 DC, (K)
		-	8, 	 , PNP	10...30 VDC	200 DC, (K)
		-	8, 	 , PNP	10...65 VDC	200 DC, (K)
		-	8, 	 , PNP	10...65 VDC	200 DC, (K)
		T +100°C	8, 	 , PNP	10...30 VDC	200 DC, (K)
		-	8, 	 , NPN	10...30 VDC	200 DC, (K)
		-	8, 	 , NPN	10...65 VDC	200 DC, (K)
		-	8, 	 , NPN	10...65 VDC	200 DC, (K)
		-	8, 		10...65 VDC	100 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI12U-EM18-AN6X	1645320 ✘	S004	2	-30...+85	IP68	V2A (1.4301)	PBT	PVC 2 m	-	•
NI8-M18-AP6X	46112 ✘	S001	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI8-M18-VP4X	15612 ✘	S007	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI8-EM18-VP4X 7M	1561133 ✘	S007	0.5	-25...+70	IP67	V2A (1.4301)	PA	PVC 7 m	-	•
NI8-M18-AP6X/S100	4611201 ✘	S001	0.5	-25...+100	IP67	CuZn-Cr	PA-X	PVC 2 m	-	•
NI8-M18-AN6X	46113 ✘	S004	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI8-M18-VN4X	15712 ✘	S010	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI8-EM18-VN4X 7M	1561132	S010	0.5	-25...+70	IP67	V2A (1.4301)	PA	PVC 7 m	-	•
NI8-M18-AD4X	44112 ✘	S013	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•

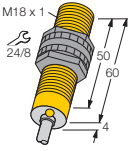









































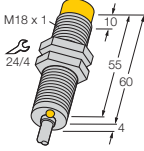















Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M18 x 1 	uprox®	5, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	5, 	 , NPN	10...30 VDC	200 DC, (K)
		-	5, 	 , PNP	10...30 VDC	200 DC, (K)
		T -40°C	5, 	 , PNP	10...65 VDC	200 DC, (K)
		T +100°C	5, 	 , PNP	10...65 VDC	200 DC, (K)
		-	5, 	 , NPN	10...30 VDC	200 DC, (K)
		-	5, 		10...65 VDC	100 DC, (K)
		-	5, 		20...250 VAC 10...300 VDC	400 AC 300 mA
		T -40°C	5, 		20...250 VAC 10...300 VDC	400 AC 300 mA
		T +100°C	5, 		20...250 VAC 10...300 VDC	400 AC 300 mA
		uprox®	12, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	12, 	 , NPN	10...30 VDC	200 DC, (K)
		-	8, 	 , PNP	10...30 VDC	200 DC, (K)
		T -40°C	8, 	 , PNP	10...65 VDC	200 DC, (K)
		T +100°C	8, 	 , PNP	10...65 VDC	200 DC, (K)
		-	8, 	 , NPN	10...30 VDC	200 DC, (K)
		-	8, 		10...65 VDC	100 DC, (K)
		-	8, 		20...250 VAC 10...300 VDC	400 AC 300 mA
		T -40°C	8, 		20...250 VAC 10...300 VDC	400 AC 300 mA
		T +100°C	8, 		20...250 VAC 10...300 VDC	400 AC 300 mA
	M18 x 1 	uprox®+	15, 	 , PNP	10...55 VDC	200 DC, (K)
		uprox®+	15, 	 , NPN	10...55 VDC	200 DC, (K)
		uprox®	12, 	 , PNP	10...65 VDC	200 DC, (K)
		uprox®	12, 	 , NPN	10...65 VDC	200 DC, (K)
		uprox®	12, 		20...250 VAC 10...300 VDC	400 AC 300 DC, (K)
		-	8, 		20...250 VAC 10...300 VDC	400 AC 300 mA
		uprox®+	10, 		10...65 VDC	100 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI5U-S18-AP6X	1635500 ✘	S001	2.5	-30...+85	IP68	PBT	PBT	PVC 2 m	-	•
BI5U-S18-AN6X	1635520	S004	2.5	-30...+85	IP68	PBT	PBT	PVC 2 m	-	•
BI5-S18-AP6X	46560 ✘	S001	1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI5-S18-VP4X/S97	1513420	S007	0.5	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
BI5-S18-VP4X/S100	1513402	S007	0.5	-25...+100	IP67	PA	PA	PVC 2 m	-	•
BI5-S18-AN6X	46561 ✘	S004	0.5	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI5-S18-AD4X	44560 ✘	S013	1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI5-S18-AZ3X	43504 ✘	S092	0.02	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI5-S18-AZ3X/S97	1373410	S092	0.02	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
BI5-S18-AZ3X/S100	13734 ✘	S092	0.02	-25...+100	IP67	PA	PA	PVC 2 m	-	•
NI12U-S18-AP6X	1645500 ✘	S001	2	-30...+85	IP68	PBT	PBT	PVC 2 m	-	•
NI12U-S18-AN6X	1645520	S004	2	-30...+85	IP68	PBT	PBT	PVC 2 m	-	•
NI8-S18-AP6X	46562 ✘	S001	0.5	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI8-S18-VP4X/S97	1513512	S007	0.5	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
NI8-S18-VP4X/S100	1513510	S007	0.5	-25...+100	IP67	PA	PA	PVC 2 m	-	•
NI8-S18-AN6X	46563 ✘	S004	0.5	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI8-S18-AD4X	44562 ✘	S013	0.5	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI8-S18-AZ3X	43505 ✘	S092	0.02	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI8-S18-AZ3X/S97	1371803	S092	0.02	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
NI8-S18-AZ3X/S100	13718 ✘	S092	0.02	-25...+100	IP67	PA	PA	PVC 2 m	-	•
NI15U-M18M-VP44X	1634878 ✘	S007	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
NI15U-M18M-VN44X	1634882	S010	1	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
NI12U-M18M-VP4X	1581403 ✘	S007	2	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
NI12U-M18M-VN4X	1581501	S010	2	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
NI12U-M18-ADZ30X2	4282410 ✘	S155	0.02	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
NI8-M18-AZ3X	43105 ✘	S155	0.02	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI10U-M18M-AD4X	4405070 ✘	S013	0.01	-25...+70	IP68	CuZn-Cr	LCP	PVC 2 m	-	•

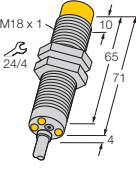
Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]
	M18 x 1 	15 bar wash down T -60°C	7,  —, PNP	10...30 VDC	200 DC, (K)
	M18 x 1 	T +120°C T +120°C	8,  —, PNP —, PNP	10...30 VDC 20...250 VAC	200 DC, (K) 400 AC
	M18 x 1 	rotation monitoring rotation monitoring	12,  —, PNP —, PNP	10...65 VDC 10...65 VDC	200 DC, (K) 200 DC, (K)
	M18 x 1 	T +160°C T +120°C, wash down	8,  —, PNP —, PNP	10...30 VDC 10...30 VDC	200 DC, (K) 200 DC, (K)
	M18 x 1 	15 bar uprox®+ wash down	8,  —, PNP	10...30 VDC	200 DC, (K)
	M18 x 1 	ⓧ II 1 G ⓧ II 1 D ⓧ II 1 G ⓧ II 1 D SIL2	5,  NAMUR 5,  NAMUR	nom. 8.2 VDC nom. 8.2 VDC	— —

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
NI7-EM18WD-AP6X/S929	4632001	S001	1	-60...+60	IP68 / IP69K	V4A (1.4571)	PTFE	FEP 2 m	-	•
NI8-M18-AP6X/S120	4611230 ✘	S001	0.1	-25...+120	IP67	CuZn-Cr	PA	Silicone 2 m	-	•
NI8-M18-AZ3X/S120	4310530 ✘	S092	0.02	-25...+120	IP67	CuZn-Cr	PA	Silicone 2 m	-	•
DNI12U-M18E-AP4X3	1582235 ✘	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
DTNI12U-M18E-AP4X3	1582234 ✘	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
NI8-EM18-AP6/S907	4611231 ✘	S001	0.2	-25...+160	IP68 / IP69K	V4A (1.4571)	PEEK	PTFE 2 m	-	-
NI7-EM18D-VP6X/S120	4632100 ✘	S007	0.1	-25...+120	IP68 / IP69K	V4A (1.4571)	PTFE	PTFE 2 m	-	•
B18U-EM18WDTC-AP6X	1634762 ✘	S003	1.5	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
B15-G18SK-Y1X	40160 ✘	S027	1	-25...+70	IP67	CuZn-Cr	PA	-	-	•
B15-EG18SK-Y1X	4012060 ✘	S027	1	-25...+70	IP67	V2A (1.4301)	PA	-	-	•

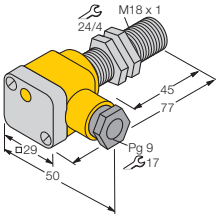









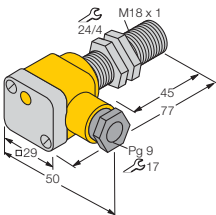



Sensortechnik/Sensors/
DéTECTEURS

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M18 x 1 	uprox® 5, 	 , PNP	10...30 VDC	200 DC, (K)	
		uprox® 5, 	 , PNP	10...65 VDC	200 DC, (K)	
		uprox® 5, 	 , NPN	10...30 VDC	200 DC, (K)	
		uprox® 5, 	 , NPN	10...65 VDC	200 DC, (K)	
	M18 x 1 	-	 , PNP	10...30 VDC	200 DC, (K)	
		-	 , NPN	10...30 VDC	200 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI5U-EG18SK-AP6X	1635400 ✘	S003	2.5	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI5U-EG18SK-VP4X	1581601 ✘	S009	2.5	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI5U-EG18SK-AN6X	1635420	S006	2.5	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI5U-EG18SK-VN4X	1581701	S012	2.5	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI5-G18SK-AP6X	46420 ✘	S003	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI5-G18SK-AN6X	46421	S006	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•

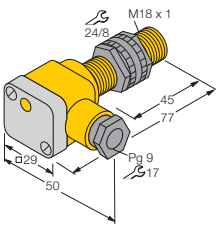









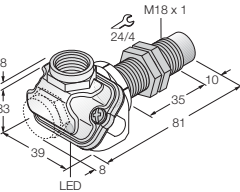


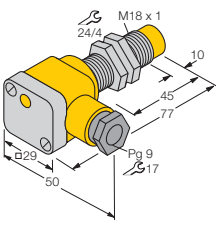







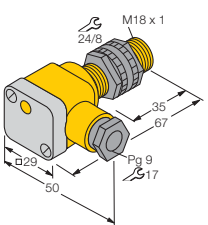



Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
	M18 x 1 	uprox®	5, 	—, PNP	10...30 VDC	200 DC, (K)	
		uprox®	5, 	—, NPN	10...30 VDC	200 DC, (K)	
		—	5, 	—, PNP	10...30 VDC	200 DC, (K)	
		—	5, 	—, NPN	10...30 VDC	200 DC, (K)	
		uprox®	12, 	—, PNP	10...30 VDC	200 DC, (K)	
		uprox®	12, 	—, NPN	10...30 VDC	200 DC, (K)	
		—	10, 	—, PNP	10...30 VDC	200 DC, (K)	
		—	10, 	—, NPN	10...30 VDC	200 DC, (K)	
	M18 x 1 	15 bar uprox®+ wash down	15, 	—, PNP	10...30 VDC	200 DC, (K)	
	M18 x 1 	uprox®	12, 	—, PNP	10...30 VDC	200 DC, (K)	
		uprox®	12, 	—, PNP	10...65 VDC	200 DC, (K)	
		uprox®	12, 	—, NPN	10...30 VDC	200 DC, (K)	
		uprox®	12, 	—, NPN	10...65 VDC	200 DC, (K)	
		—	10, 	—, PNP	10...30 VDC	200 DC, (K)	
		—	10, 	—, NPN	10...30 VDC	200 DC, (K)	
	M18 x 1 	⊕ II 2 G	5, 	NAMUR	nom. 8.2 VDC	—	
		⊕ II 1 D					
		⊕ II 2 G	10, 	NAMUR	nom. 8.2 VDC	—	
		⊕ II 1 D					

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI5U-P18SK-AP6X	1635700 x	S003	3	-30...+85	IP68	PBT	PBT	-	-	•
BI5U-P18SK-AN6X	1635720	S006	3	-30...+85	IP68	PBT	PBT	-	-	•
BI5-P18SK-AP6X	46565 x	S003	0.5	-25...+70	IP67	PA	PA	-	-	•
BI5-P18SK-AN6X	46566	S006	0.5	-25...+70	IP67	PA	PA	-	-	•
NI12U-P18SK-AP6X	1645700 x	S003	2	-30...+85	IP68	PBT	PBT	-	-	•
NI12U-P18SK-AN6X	1645720	S006	2	-30...+85	IP68	PBT	PBT	-	-	•
NI10-P18SK-AP6X	46567 x	S003	0.5	-25...+70	IP67	PA	PA	-	-	•
NI10-P18SK-AN6X	46568 x	S006	0.5	-25...+70	IP67	PA	PA	-	-	•
NI15U-EM18WDTC-AP6X	1634763 x	S003	1	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
NI12U-EG18SK-AP6X	1645400 x	S003	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
NI12U-EG18SK-VP4X	1581801 x	S009	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
NI12U-EG18SK-AN6X	1645420	S006	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
NI12U-EG18SK-VN4X	1581901	S012	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
NI10-G18SK-AP6X	46422 x	S003	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI10-G18SK-AN6X	46423 x	S006	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI5-P18SK-Y1X	40360 x	S027	1	-25...+70	IP67	PA	PA	-	-	•
NI10-P18SK-Y1X	40361 x	S027	0.5	-25...+70	IP67	PA	PA	-	-	•

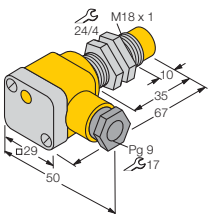



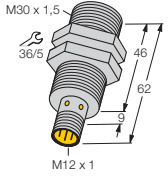





















Sensortechnik/Sensors/
Détecteurs

x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M18 x 1 	II 1 G II 1 D SIL2	10, 	NAMUR	nom. 8.2 VDC	-
		II 1 G II 1 D	10, 	NAMUR	nom. 8.2 VDC	-
	M30 x 1,5 	uprox®+	15, 	 , PNP	10...30 VDC	200 DC, (K)
		teflon	15, 	 , PNP	10...30 VDC	200 DC, (K)
		10 bar uprox®+	15, 	 , PNP	10...30 VDC	200 DC, (K)
		wash down T -40°C T +100°C				
		II 3 G II 3 D 10 bar uprox®+	15, 	 , PNP	10...30 VDC	200 DC, (K)
		wash down				
		e1, load dump T +85°C T -40°C 100V/m, 100mA BCI Sn +	15, 	 , PNP	8.4...65 VDC	200 DC, (K)
		uprox®+	15, 	 , PNP	10...55 VDC	200 DC, (K)
		10 bar uprox®+	15, 	 , PNP	10...55 VDC	200 DC, (K)
		wash down				
uprox®+	15, 	 , PNP	10...30 VDC	200 DC, (K)		
uprox®+	15, 	 , NPN	10...30 VDC	200 DC, (K)		
teflon uprox®+	15, 	 , NPN	10...30 VDC	200 DC, (K)		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials Matériaux (IEC 852)	Gehäuse Housing Boîtier	Aktive Fläche Active face Face active	Kabel Cable Câble	LED U _B	LED ┘
NI10-EG18SK-Y1X	4012150 ✘	S027	0.5	-25...+70	IP67	V2A (1.4301)	PA	-	-	-	•
NI10-G18SK-Y1X	40161 ✘	S027	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	-	•
BI15U-M30-AP6X-H1141	1636732 ✘	S002	0.75	-30...+85	IP68	CuZn-Cr	LCP	-	-	-	•
BI15U-MT30-AP6X-H1141	1636734 ✘	S002	0.75	-30...+85	IP68	CuZn-T	LCP	-	-	-	•
BI15U-EM30WD-AP6X-H1141	1634820 ✘	S002	0.75	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	-	•
BI15U-EM30WD-AP6X-H1141/3GD	1634855 ✘	S002	0.75	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	-	•
BI15-EM30-AP45XLD-H1141	1584020 ✘	S002	0.5	-40...+85	IP68 / IP69K	V4A (1.4404)	PA	-	-	-	•
BI15U-M30-VP44X-H1141	1634885 ✘	S008	0.75	-30...+85	IP68	CuZn-Cr	LCP	-	-	-	•
BI15U-EM30WD-VP44X-H1141	1634899	S008	0.75	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	-	•
BI15U-M30-RP6X-H1141	1636739 ✘	S056	0.75	-30...+85	IP68	CuZn-Cr	LCP	-	-	-	•
BI15U-M30-AN6X-H1141	1636736 ✘	S005	0.75	-30...+85	IP68	CuZn-Cr	LCP	-	-	-	•
BI15U-MT30-AN6X-H1141	1636738	S005	0.75	-30...+85	IP68	CuZn-T	LCP	-	-	-	•

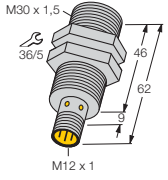
















































Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S _n Sensing range S _n Distance de commutation S _n [mm]	Ausgang Output Sortie	Betriebsspannung U _B Operational voltage U _B Tension de service U _B [V]	Betriebsstrom I _e Operational current I _e Courant de service I _e [mA]	
	M30 x 1,5					
		15, 	 , NPN	10...30 VDC	200 DC, (K)	
	10 bar uprox®+ wash down T -40°C T +100°C	15, 	 , NPN	10...30 VDC	200 DC, (K)	
	II 3 G II 3 D 10 bar uprox®+ wash down	15, 	 , NPN	10...55 VDC	200 DC, (K)	
	uprox®+	15, 	 , PNP	10...30 VDC	200 DC, (K)	
	Sn +	15, 	 , NPN	10...30 VDC	200 DC, (K)	
	Sn +	15, 	 , NPN	10...30 VDC	200 DC, (K)	
	-	12, 		10...65 VDC	100 DC, (K)	
	uprox®	10, 	 , PNP	10...30 VDC	200 DC, (K)	
	teflon	10, 	 , PNP	10...30 VDC	200 DC, (K)	
	uprox®	10, 	 , PNP	10...30 VDC	200 DC, (K)	
	uprox®	10, 	 , PNP	10...65 VDC	200 DC, (K)	
	uprox®	10, 		10...30 VDC	200 DC, (K)	
	teflon	10, 		10...30 VDC	200 DC, (K)	
	uprox®	10, 		10...30 VDC	200 DC, (K)	
	uprox®	10, 		10...65 VDC	200 DC, (K)	
	uprox®+	10, 		10...65 VDC	100 DC, (K)	
	teflon	10, 		10...65 VDC	100 DC, (K)	
	uprox®+	10, 		nom. 8.2 VDC	-	
	II 1 G II 1 D	10, 	NAMUR	nom. 8.2 VDC	-	
II 1 G II 1 D, SIL2		NAMUR	nom. 8.2 VDC	-		
-	10, 	 , PNP	10...30 VDC	200 DC, (K)		
-	10, 	 , PNP	10...65 VDC	200 DC, (K)		
-	10, 		10...30 VDC	200 DC, (K)		
-	10, 	 , NPN	10...65 VDC	200 DC, (K)		
-	10, 		10...65 VDC	100 DC, (K)		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Face active	Matériaux Kabel Câble	LED U _B	LED └┘
BI15U-EM30WD-AN6X-H1141	1634834	S005	0.75	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
BI15U-EM30WD-AN6X-H1141/3GD	1634856	S005	0.75	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
BI15U-M30-VN44X-H1141	1634889 ✘	S011	0.75	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
BI15-M30-AP6X-H1141	46185 ✘	S002	0.3	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI15-M30-AN6X-H1141	4618600	S005	0.3	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI12-M30-AD4X-H1141	4417041 ✘	S014	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI10U-M30-AP6X-H1141	1636140 ✘	S002	2	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI10U-MT30-AP6X-H1141	1636240 ✘	S002	0.25	-30...+85	IP67	CuZn-T	PBT	-	-	•
BI10U-EM30-AP6X-H1141	1636340 ✘	S002	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI10U-M30-VP4X-H1141	1582253 ✘	S008	2	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI10U-M30-AN6X-H1141	1636150 ✘	S005	2	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI10U-MT30-AN6X-H1141	1636250	S005	2	-30...+85	IP67	CuZn-T	PBT	-	-	•
BI10U-EM30-AN6X-H1141	1636350 ✘	S005	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI10U-M30-VN4X-H1141	1582352	S011	2	-30...+85	IP67	CuZn-Cr	PBT	-	-	•
BI10U-M30-AD4X-H1144	4405072 ✘	S179	0.01	-25...+70	IP68	CuZn-Cr	LCP	-	-	•
BI10U-MT30-AD4X-H1144	4405074 ✘	S179	0.01	-25...+70	IP68	CuZn-T	LCP	-	-	•
BI10-M30-Y1X-H1141	40202 ✘	S026	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI10-EM30-Y1X-H1141	4020205 ✘	S026	0.5	-25...+70	IP67	V2A (1.4301)	PA	-	-	•
BI10-M30-AP6X-H1141	46175 ✘	S002	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI10-M30-VP4X-H1141	15616 ✘	S008	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI10-M30-AN6X-H1141	46176 ✘	S005	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI10-M30-VN4X-H1141	15716	S011	2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI10-M30-AD4X-H1141	44175 ✘	S014	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•

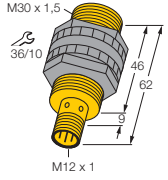









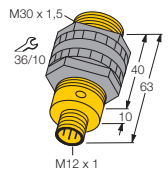





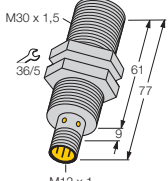




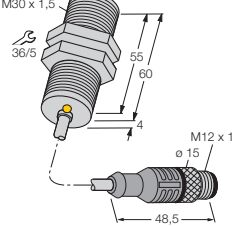



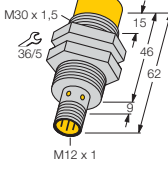

















Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M30 x 1,5	uprox®	10, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	10, 	 , NPN	10...30 VDC	200 DC, (K)
		uprox®	20, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	20, 	 , NPN	10...30 VDC	200 DC, (K)
	M30 x 1,5	-	10, 	 , PNP	10...30 VDC	200 DC, (K)
		-	10, 	 , NPN	10...30 VDC	200 DC, (K)
	M30 x 1,5	harsh selective NF	10, 	 , PNP	10...30 VDC	200 DC, (K)
		harsh selective NF	10, 	 , NPN	10...30 VDC	200 DC, (K)
	M30 x 1,5	teflon uprox®+	10, 		10...65 VDC	100 DC, (K)
						
	M30 x 1,5	uprox®+	30, 	 , PNP	10...30 VDC	200 DC, (K)
		teflon uprox®+	30, 	 , PNP	10...30 VDC	200 DC, (K)
		Ex II 3 D 10 bar uprox®+	30, 	 , PNP	10...30 VDC	200 DC, (K)
		wash down				
		uprox®+	30, 	 , PNP	10...55 VDC	200 DC, (K)
		10 bar uprox®+	30, 	 , PNP	10...55 VDC	200 DC, (K)
		wash down				
		uprox®+	30, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®+	30, 	 , NPN	10...30 VDC	200 DC, (K)
	teflon uprox®+	30, 	 , NPN	10...30 VDC	200 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI10U-S30-AP6X-H1141	1636600 ✕	S002	2	-30...+85	IP68	PBT	PA	-	-	•
BI10U-S30-AN6X-H1141	1636620	S005	2	-30...+85	IP68	PBT	PA	-	-	•
NI20U-S30-AP6X-H1141	1646600 ✕	S002	1.5	-30...+85	IP68	PBT	PA	-	-	•
NI20U-S30-AN6X-H1141	1646620	S005	1.5	-30...+85	IP68	PBT	PA	-	-	•
BI10-S30-AP6X-H1141	46580 ✕	S002	0.5	-25...+70	IP67	PA	PA	-	-	•
BI10-S30-AN6X-H1141	46581	S005	0.5	-25...+70	IP67	PA	PA	-	-	•
BI10NF-EM30HE-AP6X2-H1141	1615002 ✕	S002	2	0...+60	IP67	V2A (1.4301)	DURO	-	•	•
BI10NF-EM30HE-AN6X2-H1141	1615005	S005	2	0...+60	IP67	V2A (1.4301)	DURO	-	•	•
BI10U-MT30-AD4X-0,3-RS4.23/XOR	4405050 ✕	S179	0.01	-25...+70	IP68	CuZn-T	LCP	PVC 0.3 m	-	•
NI30U-M30-AP6X-H1141	1646631 ✕	S002	0.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI30U-MT30-AP6X-H1141	1646633 ✕	S002	0.5	-30...+85	IP68	CuZn-T	LCP	-	-	•
NI30U-EM30WD-AP6X-H1141/3D	1634861 ✕	S002	0.5	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
NI30U-M30-VP44X-H1141	1634887 ✕	S008	0.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI30U-EM30WD-VP44X-H1141	1634904	S008	0.5	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
NI30U-M30-RP6X-H1141	1646636 ✕	S056	0.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI30U-M30-AN6X-H1141	1644635 ✕	S005	0.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	•
NI30U-MT30-AN6X-H1141	1644637	S005	0.5	-30...+85	IP68	CuZn-T	LCP	-	-	•

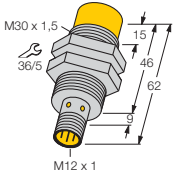
























Sensortechnik/Sensors/
Détecteurs

✕ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
	M30 x 1,5						
		ⓧ II 3 D 10 bar uprox®+ wash down	30, 	—, NPN	10...30 VDC	200 DC, Ⓚ	
	uprox®+	30, 	 , NPN	10...55 VDC	200 DC, Ⓚ		
	uprox®	20, 	—, PNP	10...30 VDC	200 DC, Ⓚ		
	teflon uprox®	20, 	—, PNP	10...30 VDC	200 DC, Ⓚ		
	uprox®	20, 	—, PNP	10...30 VDC	200 DC, Ⓚ		
	uprox®	20, 	 , PNP	10...65 VDC	200 DC, Ⓚ		
	uprox®	20, 	—, NPN	10...30 VDC	200 DC, Ⓚ		
	teflon uprox®	20, 	—, NPN	10...30 VDC	200 DC, Ⓚ		
	uprox®	20, 	—, NPN	10...30 VDC	200 DC, Ⓚ		
	uprox®	20, 	 , NPN	10...65 VDC	200 DC, Ⓚ		
	-	20, 	—	10...65 VDC	100 DC, Ⓚ		
	uprox®+	15, 	—	10...65 VDC	100 DC, Ⓚ		
	teflon uprox®+	15, 	—	10...65 VDC	100 DC, Ⓚ		
	ⓧ II 1 G ⓧ II 1 D	15, 	NAMUR	nom. 8.2 VDC	-		
	ⓧ II 1 G ⓧ II 1 D, SIL2	15, 	NAMUR	nom. 8.2 VDC	-		
	-	15, 	—, PNP	10...30 VDC	200 DC, Ⓚ		
	-	15, 	 , PNP	10...65 VDC	200 DC, Ⓚ		
	-	15, 	—, NPN	10...30 VDC	200 DC, Ⓚ		
	-	15, 	—	10...65 VDC	100 DC, Ⓚ		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials Matériaux (IEC 852)	Gehäuse Housing Boîtier	Aktive Fläche Active face Face active	Kabel Cable Câble	LED U _B	LED └┘
NI30U-EM30WD-AN6X-H1141/3D	1634862	S005	0.5	-30...+85	IP68 / IP69K	V4A (1.4404)	LCP	-	-	-	•
NI30U-M30-VN44X-H1141	1634891 ✘	S011	0.5	-30...+85	IP68	CuZn-Cr	LCP	-	-	-	•
NI20U-M30-AP6X-H1141	1646140 ✘	S002	1.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	-	•
NI20U-MT30-AP6X-H1141	1646240 ✘	S002	1.5	-30...+85	IP67	CuZn-T	PBT	-	-	-	•
NI20U-EM30-AP6X-H1141	1646340 ✘	S002	1.5	-30...+85	IP68	V2A (1.4301)	PBT	-	-	-	•
NI20U-M30-VP4X-H1141	1582457 ✘	S008	1.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	-	•
NI20U-M30-AN6X-H1141	1646150 ✘	S005	1.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	-	•
NI20U-MT30-AN6X-H1141	1646250	S005	1.5	-30...+85	IP67	CuZn-T	PBT	-	-	-	•
NI20U-EM30-AN6X-H1141	1646350	S005	1.5	-30...+85	IP68	V2A (1.4301)	PBT	-	-	-	•
NI20U-M30-VN4X-H1141	1582552	S011	1.5	-30...+85	IP67	CuZn-Cr	PBT	-	-	-	•
NI20-M30-AD4X-H1141	4466141 ✘	S014	0.2	-25...+70	IP67	CuZn-Cr	PA	-	-	-	•
NI15U-M30-AD4X-H1144	4405075 ✘	S179	0.01	-25...+70	IP68	CuZn-Cr	LCP	-	-	-	•
NI15U-MT30-AD4X-H1144	4405077 ✘	S179	0.01	-25...+70	IP68	CuZn-T	LCP	-	-	-	•
NI15-M30-Y1X-H1141	40203 ✘	S026	0.2	-25...+70	IP67	CuZn-Cr	PBT	-	-	-	•
NI15-EM30-Y1X-H1141	1006260 ✘	S026	0.2	-25...+70	IP67	V2A (1.4301)	PA	-	-	-	•
NI15-M30-AP6X-H1141	46177 ✘	S002	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	-	•
NI15-M30-VP4X-H1141	15617 ✘	S008	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	-	•
NI15-M30-AN6X-H1141	46178 ✘	S005	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	-	•
NI15-M30-AD4X-H1141	44177 ✘	S014	0.2	-25...+70	IP67	CuZn-Cr	PA	-	-	-	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M30 x 1,5	–	15, 	–, PNP	10...30 VDC	200 DC, (K)
		–	15, 	–, NPN	10...30 VDC	200 DC, (K)
	M30 x 1,5	uprox®	10, 	–	20...250 VAC 10...300 VDC	400 AC 300 DC, (K)
						
	M30 x 1,5	uprox®	20, 	–	20...250 VAC 10...300 VDC	400 AC 300 DC, (K)
						
	M30 x 1,5	–	10, 	–, PNP	10...30 VDC	200 DC, (K)
		–	10, 	–, NPN	10...30 VDC	200 DC, (K)
	M30 x 1,5	uprox®	10, 	–	20...250 VAC 10...300 VDC	400 AC 300 DC, (K)
						
	M30 x 1,5	uprox®	20, 	–	20...250 VAC 10...300 VDC	400 AC 300 DC, (K)
						

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
NI15-S30-AP6X-H1141	46582 ✘	S002	0.5	-25...+70	IP67	PA	PA	-	-	•
NI15-S30-AN6X-H1141	46583	S005	0.5	-25...+70	IP67	PA	PA	-	-	•
BI10U-G30-ADZ30X2-B3131	4281613	S153	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	•	•
NI20U-G30-ADZ30X2-B3131	4281813	S153	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	•	•
BI10-G30-AP6X-B1141	46965 ✘	S002	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI10-G30-AN6X-B1141	46954	S005	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI10U-G30-ADZ30X2-B1131	4281612	S153	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	•	•
NI20U-G30-ADZ30X2-B1131	4281812	S153	0.02	-30...+85	IP67	CuZn-Cr	PBT	-	•	•



Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
	M30 x 1,5 	Ex II 2 G Ex II 1 D 10, 	NAMUR	nom. 8.2 VDC	-		
		Ex II 2 G Ex II 1 D T -40°C 10, 	NAMUR	nom. 8.2 VDC	-		
		Ex II 2 G Ex II 1 D T +100°C 10, 	NAMUR	nom. 8.2 VDC	-		
		Ex II 2 G Ex II 1 D 15, 	NAMUR	nom. 8.2 VDC	-		
		Ex II 2 G Ex II 1 D T -40°C 15, 	NAMUR	nom. 8.2 VDC	-		
		Ex II 2 G Ex II 1 D T +100°C 15, 	NAMUR	nom. 8.2 VDC	-		
	M30 x 1,5 	-		10...65 VDC	100 DC, K		
		Ex II 1 G Ex II 1 D 10, 	NAMUR	nom. 8.2 VDC	-		
		Ex II 1 G Ex II 1 D SIL2 T +100°C 10, 	NAMUR	nom. 8.2 VDC	-		
		-	 , PNP	10...30 VDC	200 DC, K		
		-	 , NPN	10...30 VDC	200 DC, K		
	M30 x 1,5 	uprox®	 , PNP	10...30 VDC	200 DC, K		
		uprox®	 , NPN	10...30 VDC	200 DC, K		
		-	 , PNP	10...30 VDC	200 DC, K		
		T -40°C	 , PNP	10...65 VDC	200 DC, K		
		T +100°C	 , PNP	10...65 VDC	200 DC, K		
		-	 , NPN	10...30 VDC	200 DC, K		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI10-P30-Y1X	40400 ✘	S025	0.5	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI10-P30-Y1X/S97	1023322	S025	0.5	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
BI10-P30-Y1/S100	10233 ✘	S025	0.5	-25...+100	IP67	PA	PA	PVC 2 m	-	-
NI15-P30-Y1X	40401 ✘	S025	0.2	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI15-P30-Y1X/S97	1022704	S025	0.2	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
NI15-P30-Y1/S100	10227 ✘	S025	0.2	-25...+100	IP67	PA	PA	PVC 2 m	-	-
BI12-G30K-AD4X	4417010 ✘	S013	0.4	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI10-G30-Y1X	40200 ✘	S025	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI10-EG30-Y1X/S100 7M	4012005 ✘	S025	0.5	-25...+100	IP67	V2A (1.4301)	PA	PVC 7 m	-	•
BI10-G30K-AP6X	46706 ✘	S001	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI10-G30K-AN6X	46716	S004	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI10U-S30-AP6X	1636500 ✘	S001	2	-30...+85	IP68	PA	PA	PVC 2 m	-	•
BI10U-S30-AN6X	1636520	S004	2	-30...+85	IP68	PA	PA	PVC 2 m	-	•
BI10-S30-AP6X	46590 ✘	S001	0.5	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI10-S30-VP4X/S97	1512221	S007	0.5	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
BI10-S30-VP4X/S100	15140 ✘	S007	0.5	-25...+100	IP67	PA	PA	PVC 2 m	-	•
BI10-S30-AN6X	46591 ✘	S004	0.5	-25...+70	IP67	PA	PA	PVC 2 m	-	•

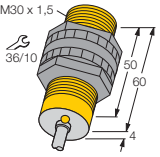





























Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M30 x 1,5	10, 		20...250 VAC 10...300 VDC	400 AC 300 mA	
		T -40°C	10, 		20...250 VAC 10...300 VDC	400 AC 300 mA
		T +100°C	10, 		20...250 VAC 10...300 VDC	400 AC 300 mA
		-	10, 		10...65 VDC	100 DC, (K)
		uprox®	20, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	20, 	 , NPN	10...30 VDC	200 DC, (K)
		-	15, 	 , PNP	10...30 VDC	200 DC, (K)
		T -40°C	15, 	 , PNP	10...65 VDC	200 DC, (K)
		T +100°C	15, 	 , PNP	10...65 VDC	200 DC, (K)
		-	15, 	 , NPN	10...30 VDC	200 DC, (K)
		-	15, 		20...250 VAC 10...300 VDC	400 AC 300 mA
		T -40°C	15, 		20...250 VAC 10...300 VDC	400 AC 300 mA
		T +100°C	15, 		20...250 VAC 10...300 VDC	400 AC 300 mA
		-	15, 		10...65 VDC	100 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI10-S30-AZ3X	43554 ✘	S092	0.02	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI10-S30-AZ3X/S97	4355421	S092	0.02	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
BI10-S30-AZ3X/S100	13719 ✘	S092	0.02	-25...+100	IP67	PA	PA	PVC 2 m	-	•
BI10-S30-AD4X	44590 ✘	S013	0.5	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI20U-S30-AP6X	1646500 ✘	S001	1.5	-30...+85	IP68	PA	PA	PVC 2 m	-	•
NI20U-S30-AN6X	1646520	S004	1.5	-30...+85	IP68	PA	PA	PVC 2 m	-	•
NI15-S30-AP6X	46592 ✘	S001	0.5	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI15-S30-VP4X/S97	1514110	S007	0.5	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
NI15-S30-VP4X/S100	15141 ✘	S007	0.5	-25...+100	IP67	PA	PA	PVC 2 m	-	•
NI15-S30-AN6X	46593	S004	0.5	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI15-S30-AZ3X	43555 ✘	S092	0.02	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI15-S30-AZ3X/S97	1375803	S092	0.02	-40...+70	IP67	PA	PA	Silicone 2 m	-	•
NI15-S30-AZ3X/S100	13758 ✘	S092	0.02	-25...+100	IP67	PA	PA	PVC 2 m	-	•
NI15-S30-AD4X	44592	S013	0.2	-25...+70	IP67	PA	PA	PVC 2 m	-	•

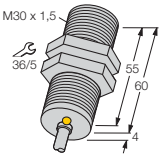





































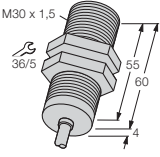









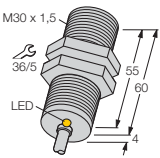



Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S _n Sensing range S _n Distance de commutation S _n [mm]	Ausgang Output Sortie	Betriebsspannung U _B Operational voltage U _B Tension de service U _B [V]	Betriebsstrom I _e Operational current I _e Courant de service I _e [mA]	
	M30 x 1,5 	uprox®+	15, 	 , PNP	10...30 VDC	200 DC, (K)
		e1, load dump T +85°C T -40°C 100 V/m, 100 mA BCI Sn +	15, 	 , PNP	8.4...65 VDC	200 DC, (K)
		uprox®+	15, 	 , NPN	10...55 VDC	200 DC, (K)
		uprox®+	15, 	 , NPN	10...30 VDC	200 DC, (K)
		uprox®+	15, 	 , NPN	10...55 VDC	200 DC, (K)
		-	12, 		10...65 VDC	100 DC, (K)
		uprox®	10, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	10, 	 , NPN	10...30 VDC	200 DC, (K)
		uprox®	10, 		20...250 VAC 10...300 VDC	400 AC 300 DC, (K)
		uprox®+	10, 		10...65 VDC	100 DC, (K)
		-	10, 	 , PNP	10...30 VDC	200 DC, (K)
		-	10, 	 , PNP	10...65 VDC	200 DC, (K)
		-	10, 	 , PNP	10...65 VDC	200 DC, (K)
		-	10, 	 , NPN	10...30 VDC	200 DC, (K)
		-	10, 	 , NPN	10...65 VDC	200 DC, (K)
		-	10, 	 , NPN	10...65 VDC	200 DC, (K)
-	10, 		20...250 VAC 10...300 VDC	400 AC 300 mA		
-	10, 		10...65 VDC	100 DC, (K)		
	M30 x 1,5 	uprox®	10, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	10, 	 , PNP	10...65 VDC	200 DC, (K)
		uprox®	10, 	 , NPN	10...30 VDC	200 DC, (K)
		uprox®	10, 	 , NPN	10...65 VDC	200 DC, (K)
	M30 x 1,5 	T +100°C	10, 	 , PNP	10...30 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI15U-M30-AP6X	1636731 ✘	S001	0.75	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
BI15-EM30-AP45XLD	1584021 ✘	S001	0.5	-40...+85	IP68 / IP69K	V4A (1.4404)	PA	TPE 2 m	-	•
BI15U-M30-VP44X	1634884 ✘	S007	0.75	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
BI15U-M30-AN6X	1636735	S004	0.75	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
BI15U-M30-VN44X	1634888	S010	0.75	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
BI12-M30-AD4X	4417035 ✘	S013	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI10U-EM30-AP6X	1636300 ✘	S001	2	-30...+85	IP68	V2A (1.4301)	PBT	PVC 2 m	-	•
BI10U-EM30-AN6X	1636320 ✘	S004	2	-30...+85	IP68	V2A (1.4301)	PBT	PVC 2 m	-	•
BI10U-M30-ADZ30X2	4282610 ✘	S155	0.02	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
BI10U-M30-AD4X	4405073 ✘	S013	0.01	-25...+70	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
BI10-M30-AP6X	46170 ✘	S001	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI10-M30-VP4X	15614 ✘	S007	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI10-EM30-VP4X 7M	1561134 ✘	S007	0.5	-25...+70	IP67	V2A (1.4301)	PA	PVC 7 m	-	•
BI10-M30-AN6X	46171 ✘	S004	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI10-M30-VN4X	15714 ✘	S010	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI10-EM30-VN4X 7M	1561135	S010	0.5	-25...+70	IP67	V2A (1.4301)	PA	PVC 7 m	-	•
BI10-M30-AZ3X	43164 ✘	S155	0.02	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI10-M30-AD4X	44170 ✘	S013	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI10U-M30-AP6X	1636100 ✘	S001	2	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BI10U-M30-VP4X	1582201 ✘	S007	2	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BI10U-M30-AN6X	1636120 ✘	S004	2	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BI10U-M30-VN4X	1582303	S010	2	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BI10-M30-AP6X/S100	4617004 ✘	S001	0.5	-25...+100	IP67	CuZn-Cr	PA-X	PVC 2 m	-	•



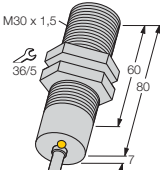

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M30 x 1,5	10 bar uprox@+ wash down T -40°C T +100°C	15, 	 , PNP	10...30 VDC	200 DC, (K)
		10 bar uprox@+ wash down T -40°C T +100°C	15, 	 , NPN	10...30 VDC	200 DC, (K)
	M30 x 1,5	rotation monitoring	10, 	 , PNP	10...65 VDC	200 DC, (K)
		rotation monitoring	10, 	 , PNP	10...65 VDC	200 DC, (K)
	M30 x 1,5	T +120°C	10, 	 , PNP	10...30 VDC	200 DC, (K)
		T +120°C	10, 		20...250 VAC	400 AC
	M30 x 1,5	10 bar T +160°C	10, 	 , PNP	10...30 VDC	200 DC, (K)
		T +120°C wash down	10, 	 , PNP	10...30 VDC	200 DC, (K)
	M30 x 1,5	rotation monitoring	20, 	 , PNP	10...65 VDC	200 DC, (K)
		rotation monitoring	20, 	 , PNP	10...65 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI15U-EM30WD-AP6X	1634819 ✘	S001	0.75	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	PP 2 m	-	•
BI15U-EM30WD-AN6X	1634843	S004	0.75	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	PP 2 m	-	•
DBI10U-M30-AP4X2	1582231 ✘	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
DTBI10U-M30-AP4X2	1582230 ✘	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
BI10-M30-AP6X/S120	4617010 ✘	S001	0.1	-25...+120	IP67	CuZn-Cr	PA	Silicone 2 m	-	•
BI10-M30-AZ3X/S120	4316410 ✘	S092	0.02	-25...+120	IP67	CuZn-Cr	PA	Silicone 2 m	-	•
BI10-EM30-AP6/S907	4614513 ✘	S001	0.2	-25...+160	IP68 / IP69K	V4A (1.4571)	PEEK	PTFE 2 m	-	-
BI10-EM30D-VP6X/S120	4617035 ✘	S007	0.1	-25...+120	IP68 / IP69K	V4A (1.4571)	PTFE	PTFE 2 m	-	•
DNI20U-M30-AP4X2	1582233 ✘	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
DTNI20U-M30-AP4X2	1582232 ✘	S059	-	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•

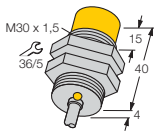






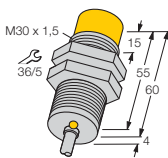















































Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M30 x 1,5	20, 		10...65 VDC	100 DC, (K)	
		–	15, 	NAMUR	nom. 8.2 VDC	–
		–	15, 	 , NPN	10...30 VDC	200 DC, (K)
		–	–	–	–	–
	M30 x 1,5	30, 	 , PNP	10...30 VDC	200 DC, (K)	
		uprox®+	30, 	 , PNP	10...55 VDC	200 DC, (K)
		uprox®+	30, 	 , NPN	10...30 VDC	200 DC, (K)
		uprox®+	30, 	 , NPN	10...55 VDC	200 DC, (K)
		uprox®	20, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	20, 	 , PNP	10...30 VDC	200 DC, (K)
		uprox®	20, 	 , PNP	10...65 VDC	200 DC, (K)
		uprox®	20, 	 , PNP	10...65 VDC	200 DC, (K)
		uprox®	20, 	 , NPN	10...30 VDC	200 DC, (K)
		uprox®	20, 	 , NPN	10...30 VDC	200 DC, (K)
		uprox®	20, 	 , NPN	10...65 VDC	200 DC, (K)
		uprox®	20, 		20...250 VAC 10...300 VDC	400 AC 300 DC, (K)
		–	20, 		10...65 VDC	100 DC, (K)
		uprox®+	15, 		10...65 VDC	100 DC, (K)
		–	15, 	 , PNP	10...65 VDC	200 DC, (K)
		–	15, 	 , PNP	10...65 VDC	200 DC, (K)
		–	15, 	 , PNP	10...30 VDC	200 DC, (K)
		T +100°C	15, 	 , PNP	10...30 VDC	200 DC, (K)
		–	15, 	 , NPN	10...65 VDC	200 DC, (K)
		–	15, 	 , NPN	10...65 VDC	200 DC, (K)
		–	15, 	 , NPN	10...30 VDC	200 DC, (K)
		–	15, 		20...250 VAC 10...300 VDC	400 AC 300 mA
–	15, 		10...65 VDC	100 DC, (K)		

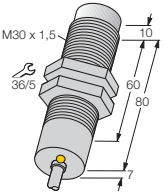





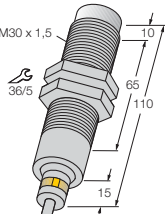





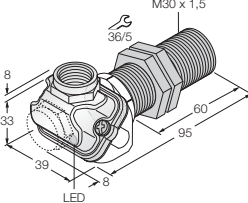


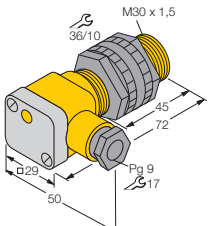







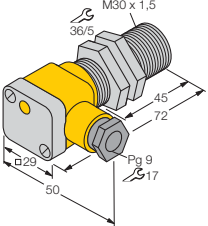







Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
NI20-G30K-AD4X	4417220	S013	0.4	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI15-G30-Y1X	40201 ✘	S025	0.2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI15-G30K-AN6X	46717	S004	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI30U-M30-AP6X	1646630 ✘	S001	0.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
NI30U-M30-VP44X	1634886 ✘	S007	0.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
NI30U-M30-AN6X	1644634	S004	0.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
NI30U-M30-VN44X	1634890	S010	0.5	-30...+85	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
NI20U-M30-AP6X	1646100 ✘	S001	1.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
NI20U-EM30-AP6X	1646300 ✘	S001	1.5	-30...+85	IP68	V2A (1.4301)	PBT	PVC 2 m	-	•
NI20U-M30-VP4X	1582401 ✘	S007	1.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
NI20U-EM30-VP4X	1582462	S007	1.5	-30...+85	IP68	V2A (1.4301)	PBT	PVC 2 m	-	•
NI20U-M30-AN6X	1646120 ✘	S004	1.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
NI20U-EM30-AN6X	1646320	S004	1.5	-30...+85	IP68	V2A (1.4301)	PBT	PVC 2 m	-	•
NI20U-M30-VN4X	1582501	S010	1.5	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
NI20U-M30-ADZ30X2	4282810 ✘	S155	0.02	-30...+85	IP67	CuZn-Cr	PBT	PVC 2 m	•	•
NI20-M30-AD4X	4466135 ✘	S013	0.2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI15U-M30-AD4X	4405076 ✘	S013	0.01	-25...+70	IP68	CuZn-Cr	LCP	PVC 2 m	-	•
NI15-M30-VP4X	15615 ✘	S007	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI15-EM30-VP4X 7M	1561137 ✘	S007	0.5	-25...+70	IP67	V2A (1.4301)	PA	PVC 7 m	-	•
NI15-M30-AP6X	46172 ✘	S001	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI15-M30-AP6X/S100	4617200 ✘	S001	0.5	-25...+100	IP67	CuZn-Cr	PA-X	PVC 2 m	-	•
NI15-M30-VN4X	15715 ✘	S010	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI15-EM30-VN4X 7M	1561136	S010	0.5	-25...+70	IP67	V2A (1.4301)	PA	PVC 7 m	-	•
NI15-M30-AN6X	46173 ✘	S004	0.5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI15-M30-AZ3X	43165 ✘	S155	0.02	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI15-M30-AD4X	44172 ✘	S013	0.2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M30 x 1,5	T +120°C	15, 	 , PNP	10...30 VDC	200 DC, (K)
		T +120°C	15, 		20...250 VAC	400 AC
	M30 x 1,5	T +160°C	15, 	 , PNP	10...30 VDC	200 DC, (K)
		T +120°C, wash down	15, 	 , PNP	10...30 VDC	200 DC, (K)
	M30 x 1,5	10 bar uprox®+ wash down	15, 	 , PNP	10...30 VDC	200 DC, (K)
	M30 x 1,5	 II 2 G	10, 	NAMUR	nom. 8.2 VDC	-
		 II 1 D				
		 II 2 G	15, 	NAMUR	nom. 8.2 VDC	-
		 II 1 D				
	M30 x 1,5	 II 1 G	10, 	NAMUR	nom. 8.2 VDC	-
		 II 1 D, SIL2				
		 II 1 G	10, 	NAMUR	nom. 8.2 VDC	-
		 II 1 D				

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI15-M30-AP6X/S120	4617210 ✘	S001	0.5	-25...+120	IP67	CuZn-Cr	PA	Silicone 2 m	-	•
NI15-M30-AZ3X/S120	4316506 ✘	S092	0.02	-25...+120	IP67	CuZn-Cr	PA	Silicone 2 m	-	•
NI15-EM30-AP6/S907	4617412 ✘	S001	0.2	-25...+160	IP68 / IP69K	V4A (1.4571)	PEEK	PTFE 2 m	-	-
NI15-EM30D-VP6X/S120	4617410 ✘	S007	0.1	-25...+120	IP68 / IP69K	V4A (1.4571)	PTFE	PTFE 2 m	-	•
BI15U-EM30WDTC-AP6X	1634764 ✘	S003	0.75	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
BI10-P30SK-Y1X	40410 ✘	S027	0.5	-25...+70	IP67	PA	PA	-	-	-
NI15-P30SK-Y1X	40411 ✘	S027	0.2	-25...+70	IP67	PA	PA	-	-	•
BI10-EG30SK-Y1X	4012070 ✘	S027	0.5	-25...+70	IP67	V2A (1.4301)	PA	-	-	•
BI10-G30SK-Y1X	40220 ✘	S027	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•

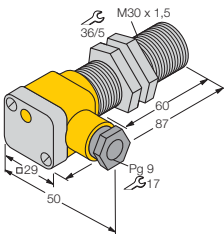


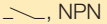

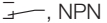
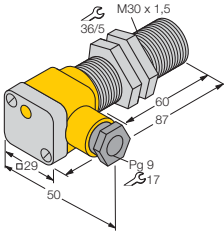


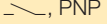

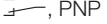

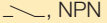

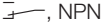

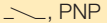

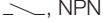

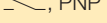

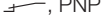
Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
	M30 x 1,5 	uprox® 20, 	 , NPN	10...30 VDC	200 DC, (K)		
		uprox® 20, 	 , NPN	10...65 VDC	200 DC, (K)		
	M30 x 1,5 	uprox® 10, 	 , PNP	10...30 VDC	200 DC, (K)		
		uprox® 10, 	 , PNP	10...65 VDC	200 DC, (K)		
		uprox® 10, 	 , NPN	10...30 VDC	200 DC, (K)		
		uprox® 10, 	 , NPN	10...65 VDC	200 DC, (K)		
		-	10, 	 , PNP	10...30 VDC	200 DC, (K)	
		-	10, 	 , NPN	10...30 VDC	200 DC, (K)	
		uprox® 20, 	 , PNP	10...30 VDC	200 DC, (K)		
		uprox® 20, 	 , PNP	10...65 VDC	200 DC, (K)		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI20U-EG30SK-AN6X	1646420	S006	1.5	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
NI20U-EG30SK-VN4X	1582901	S012	1.5	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI10U-EG30SK-AP6X	1636400 ✘	S003	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI10U-EG30SK-VP4X	1582601 ✘	S009	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI10U-EG30SK-AN6X	1636420	S006	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI10U-EG30SK-VN4X	1582701	S012	2	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
BI10-G30SK-AP6X	46480 ✘	S003	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI10-G30SK-AN6X	46481	S006	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI20U-EG30SK-AP6X	1646400 ✘	S003	1.5	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•
NI20U-EG30SK-VP4X	1582801 ✘	S009	1.5	-30...+85	IP68	V2A (1.4301)	PBT	-	-	•

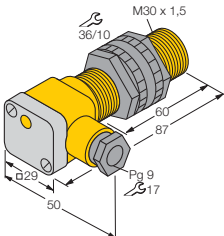








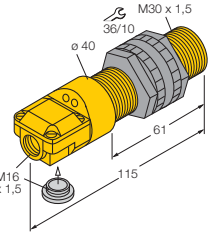











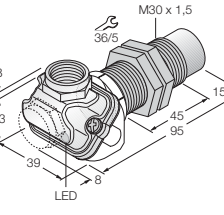


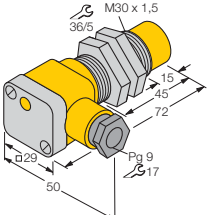






Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M30 x 1,5 	uprox®	10, 	$_/_$, PNP	10...30 VDC	200 DC, (K)
		uprox®	10, 	$_/_$, NPN	10...30 VDC	200 DC, (K)
		-	10, 	$_/_$, PNP	10...30 VDC	200 DC, (K)
		uprox®	20, 	$_/_$, PNP	10...30 VDC	200 DC, (K)
		uprox®	20, 	$_/_$, NPN	10...30 VDC	200 DC, (K)
		-	15, 	$_/_$, PNP	10...30 VDC	200 DC, (K)
		-	15, 	$_/_$, NPN	10...30 VDC	200 DC, (K)
	M30 x 1,5 	-	10, 	$_/_$, PNP	10...30 VDC	200 DC, (K)
		-	10, 	$_/_$, PNP	10...65 VDC	200 DC, (K)
		-	10, 	$_/_$, NPN	10...30 VDC	200 DC, (K)
		-	10, 	$_/_$, NPN	10...65 VDC	200 DC, (K)
		-	10, 	program.	20...250 VAC 10...300 VDC	400 AC 300 mA
		-	15, 	$_/_$, PNP	10...30 VDC	200 DC, (K)
		-	15, 	$_/_$, PNP	10...65 VDC	200 DC, (K)
		-	15, 	$_/_$, NPN	10...30 VDC	200 DC, (K)
		-	15, 	$_/_$, NPN	10...65 VDC	200 DC, (K)
		-	15, 	program.	20...250 VAC 10...300 VDC	400 AC 300 mA
	M30 x 1,5 	10 bar uprox®+ wash down	30, 	$_/_$, PNP	10...30 VDC	200 DC, (K)
	M30 x 1,5 	Ex II 1 G	15, 	NAMUR	nom. 8.2 VDC	-
		Ex II 1 D	15, 	NAMUR	nom. 8.2 VDC	-
		Ex II 1 G	15, 	NAMUR	nom. 8.2 VDC	-
		Ex II 1 D, SIL2	15, 	NAMUR	nom. 8.2 VDC	-
		Ex II 1 G Ex II 1 D T +100°C	15, 	NAMUR	nom. 8.2 VDC	-

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Face active	Matériaux Kabel Câble	LED U _B	LED ┘
BI10U-P30SK-AP6X	1636700 ✘	S003	2	-30...+85	IP68	PA	PA	-	-	•
BI10U-P30SK-AN6X	1636720	S006	2	-30...+85	IP68	PA	PA	-	-	•
BI10-P30SK-AP6X	46595 ✘	S003	0.5	-25...+70	IP67	PA	PA	-	-	•
NI20U-P30SK-AP6X	1646700 ✘	S003	1.5	-30...+85	IP68	PA	PA	-	-	•
NI20U-P30SK-AN6X	1646720	S006	1.5	-30...+85	IP68	PA	PA	-	-	•
NI15-P30SK-AP6X	46597 ✘	S003	0.5	-25...+70	IP67	PA	PA	-	-	•
NI15-P30SK-AN6X	46598	S006	0.5	-25...+70	IP67	PA	PA	-	-	•
BI10-P30SR-AP6X	16116 ✘	S003	0.5	-25...+70	IP67	ABS	ABS	-	-	•
BI10-P30SR-VP4X2	15652 ✘	S009	0.5	-25...+70	IP67	ABS	ABS	-	•	•
BI10-P30SR-AN6X	16203 ✘	S006	0.5	-25...+70	IP67	ABS	ABS	-	-	•
BI10-P30SR-VN4X2	15752 ✘	S012	0.5	-25...+70	IP67	ABS	ABS	-	•	•
BI10-P30SR-FZ3X2	13420 ✘	S016	0.02	-25...+70	IP67	ABS	ABS	-	•	•
NI15-P30SR-AP6X	16117 ✘	S003	0.5	-25...+70	IP67	ABS	ABS	-	-	•
NI15-P30SR-VP4X2	15653 ✘	S009	0.5	-25...+70	IP67	ABS	ABS	-	•	•
NI15-P30SR-AN6X	16204	S006	0.5	-25...+70	IP67	ABS	ABS	-	-	•
NI15-P30SR-VN4X2	15753 ✘	S012	0.5	-25...+70	IP67	ABS	ABS	-	•	•
NI15-P30SR-FZ3X2	13421 ✘	S016	0.02	-25...+70	IP67	ABS	ABS	-	•	•
NI30U-EM30WDTC-AP6X	1634765 ✘	S003	0.5	-40...+100	IP68 / IP69K	V4A (1.4404)	LCP	-	-	•
NI15-G30SK-Y1X	40221 ✘	S027	0.2	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI15-EG30SK-Y1X	4012160 ✘	S027	0.2	-25...+70	IP67	V2A (1.4301)	PA	-	-	•
NI15-EG30-Y1X/S100 7M	4012004 ✘	S025	0.2	-25...+100	IP67	V2A (1.4301)	PA	PVC 7 m	-	•

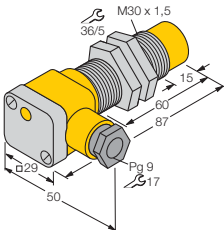




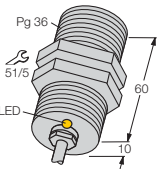









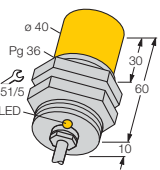






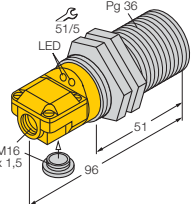





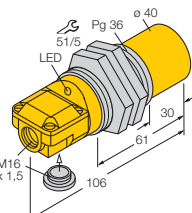





Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
	M30 x 1,5	–	15, 	 , PNP	10...30 VDC	200 DC, (K)	
		–	15, 	 , NPN	10...30 VDC	200 DC, (K)	
	G47	 II 2 G	20, 	NAMUR	nom. 8.2 VDC	–	
		 II 1 D	–	20, 	 , PNP	10...65 VDC	200 DC, (K)
		–	–	20, 	 , NPN	10...65 VDC	200 DC, (K)
		–	–	20, 		20...250 VAC 10...300 VDC	400 AC 300 mA
	G47	–	25, 	 , PNP	10...65 VDC	200 DC, (K)	
		–	25, 	 , NPN	10...65 VDC	200 DC, (K)	
		–	25, 		20...250 VAC 10...300 VDC	400 AC 300 mA	
	G47	–	25, 	 , PNP	10...65 VDC	200 DC, (K)	
		–	25, 	 , NPN	10...65 VDC	200 DC, (K)	
		–	25, 	program.	20...250 VAC 10...300 VDC	400 AC 300 mA	
	G47	–	40, 	 , PNP	10...65 VDC	200 DC, (K)	
		–	40, 	 , NPN	10...65 VDC	200 DC, (K)	
		–	40, 	program.	20...250 VAC 10...300 VDC	400 AC 300 mA	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI15-G30SK-AP6X	46482 ✘	S003	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
NI15-G30SK-AN6X	46483	S006	0.5	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BI20-G47-Y1X	10202 ✘	S025	0.2	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI20-G47-AP4X	15645 ✘	S001	0.1	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI20-G47-AN4X	15745 ✘	S004	0.1	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BI20-G47-AZ3X	13088 ✘	S155	0.02	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI25-G47-AP4X	15646 ✘	S001	0.1	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
NI25-G47-AN4X	15746	S004	0.1	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
NI25-G47-AZ3X	13089 ✘	S155	0.02	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
BI25-G47SR-VP4X2	15648 ✘	S009	0.1	-25...+70	IP67	CuZn-Cr	PA	-	•	•
BI25-G47SR-VN4X2	15748 ✘	S012	0.1	-25...+70	IP67	CuZn-Cr	PA	-	•	•
BI25-G47SR-FZ3X2	13427 ✘	S016	0.02	-25...+70	IP67	CuZn-Cr	PA	-	•	•
NI40-G47SR-VP4X2	15650 ✘	S009	0.1	-25...+70	IP67	CuZn-Cr	PA	-	•	•
NI40-G47SR-VN4X2	15750	S012	0.1	-25...+70	IP67	CuZn-Cr	PA	-	•	•
NI40-G47SR-FZ3X2	13428 ✘	S016	0.02	-25...+70	IP67	CuZn-Cr	PA	-	•	•

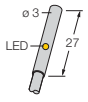





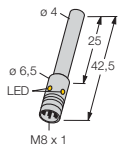







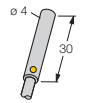










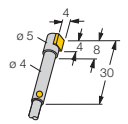










Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	Ø3	-	1, 	 , PNP	10...30 VDC	100 mA
		-	1, 	 , NPN	10...30 VDC	100 mA
	Ø4	-	1, 	 , PNP	10...30 VDC	100 DC, (K)
		-	1, 	 , PNP	10...30 VDC	100 DC, (K)
		-	1, 	 , NPN	10...30 VDC	100 DC, (K)
	Ø4	 II 2 G  II 1 D	1, 	NAMUR	nom. 8.2 VDC	-
		-	1, 	 , PNP	10...30 VDC	100 DC, (K)
		-	1, 	 , PNP	10...30 VDC	100 DC, (K)
		-	1, 	 , NPN	10...30 VDC	100 DC, (K)
	Ø4	 II 2 G  II 1 D	1, 	NAMUR	nom. 8.2 VDC	-
		-	1, 	 , PNP	10...30 VDC	100 DC, (K)
		-	1, 	 , PNP	10...30 VDC	100 DC, (K)
		-	1, 	 , NPN	10...30 VDC	100 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials Matériaux (IEC 852)	Gehäuse Housing Boîtier	Aktive Fläche Active face Face active	Kabel Cable Câble	LED U _B	LED ┘
BI1-EH03-AP7X	1619322 ✘	S001	2	-25...+70	IP67	V2A (1.4301)	POM	PUR 2 m	-	-	•
BI1-EH03-AN7X	1619323 ✘	S004	5	-25...+70	IP67	V2A (1.4301)	POM	PUR 2 m	-	-	•
BI1-EH04-AP6X-V1331	4608440 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	-	•
BI1-EH04-RP6X-V1331	4608441	S175	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	-	•
BI1-EH04-AN6X-V1331	4608540 ✘	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	-	•
BI1-EH04-Y1	1003040 ✘	S025	5	-25...+70	IP67	V4A (1.4404)	PA	PVC 2 m	-	-	-
BI1-EH04-AP6X	4609540 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	-	•
BI1-EH04-RP6X	4608442	S054	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	-	•
BI1-EH04-AN6X	4609640 ✘	S004	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	-	•
BI1-HS540-Y1	1004001 ✘	S025	5	-25...+70	IP67	V4A (1.4404)	PA	PVC 2 m	-	-	-
BI1-HS540-AP6X	4604001 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	-	•
BI1-HS540-RP6X	4604050	S054	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	-	•
BI1-HS540-AN6X	4604101 ✘	S004	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	-	•













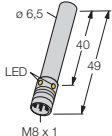


















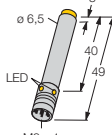









Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	Ø6,5	Sn +	2, 	 , PNP	10...30 VDC	150 DC, (K)
		Sn +	2, 	 , PNP	10...30 VDC	150 DC, (K)
		Sn +	2, 	 , NPN	10...30 VDC	150 DC, (K)
		-	1.5, 	 , PNP	10...30 VDC	150 DC, (K)
		-	1.5, 	 , NPN	10...30 VDC	150 DC, (K)
	Ø6,5	uprox@+	2, 	 , PNP	10...30 VDC	150 DC, (K)
		uprox@+	2, 	 , PNP	10...30 VDC	150 DC, (K)
		uprox@+	2, 	 , NPN	10...30 VDC	150 DC, (K)
		Sn +	2, 	 , PNP	10...30 VDC	150 DC, (K)
		Sn +	2, 	 , NPN	10...30 VDC	150 DC, (K)
		-	1.5, 	 , PNP	10...30 VDC	150 DC, (K)
	Ø6,5	-	3, 	 , PNP	10...30 VDC	150 DC, (K)
		-	3, 	 , NPN	10...30 VDC	150 DC, (K)
	Ø6,5	uprox@+	6, 	 , PNP	10...30 VDC	150 DC, (K)
		uprox@+	6, 	 , PNP	10...30 VDC	150 DC, (K)
		uprox@+	6, 	 , NPN	10...30 VDC	150 DC, (K)
		-	3, 	 , PNP	10...30 VDC	150 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI2-EH6,5K-AP6X-V1131	4610020 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI2-EH6,5K-RP6X-V1131	4610021	S175	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI2-EH6,5K-AN6X-V1131	4610120	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI1,5-EH6,5K-AP6X-V1131	4610740 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI1,5-EH6,5K-AN6X-V1131	4610840	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI2U-EH6,5-AP6X-V1131	4281160 ✘	S002	1	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
BI2U-EH6,5-RP6X-V1131	1637151	S175	1	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
BI2U-EH6,5-AN6X-V1131	4281180	S005	1	-30...+85	IP68	V4A (1.4404)	PA	-	-	•
BI2-EH6,5-AP6X-V1131	4612220 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI2-EH6,5-AN6X-V1131	4612320	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI1,5-EH6,5-AP6X-V1131	4612020 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
BI1,5-EH6,5-AN6X-V1131	4612120	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
NI3-EH6,5K-AP6X-V1131	4610220	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
NI3-EH6,5K-AN6X-V1131	4610320	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•
NI6U-EH6,5-AP6X-V1131	4631510 ✘	S002	1	0...+70	IP68	V4A (1.4404)	PA	-	-	•
NI6U-EH6,5-RP6X-V1131	4635832	S175	1	0...+70	IP68	V4A (1.4404)	PA	-	-	•
NI6U-EH6,5-AN6X-V1131	4631530	S005	1	0...+70	IP68	V4A (1.4404)	PA	-	-	•
NI3-EH6,5-AP6X-V1131	4612420 ✘	S002	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•

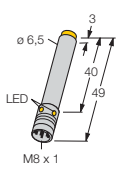


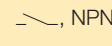
**Sensortechnik/Sensors/
Détecteurs**

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
 <p>Ø6,5</p> 	-	3, 	 , NPN	10...30 VDC	150 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI3-EH6,5-AN6X-V1131	4612520	S005	3	-25...+70	IP67	V4A (1.4404)	PA	-	-	•

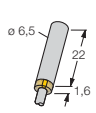














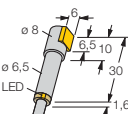








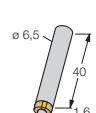




















Sensortechnik/Sensors/
Détecteurs

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Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
		Ø6,5 Sn +	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		Sn +	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		Sn +	2, 	 , NPN	10...30 VDC	150 DC, (K)	
		 II 1 G  II 1 D	1.5, 	NAMUR	nom. 8.2 VDC	-	
		-	1.5, 	 , PNP	10...30 VDC	150 DC, (K)	
		-	1.5, 	 , NPN	10...30 VDC	150 DC, (K)	
		Ø6,5  II 2 G  II 1 D	1.5, 	NAMUR	nom. 8.2 VDC	-	
		-	1.5, 	 , PNP	10...30 VDC	150 DC, (K)	
		-	1.5, 	 , NPN	10...30 VDC	150 DC, (K)	
		Ø6,5 uprox®+	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		uprox®+	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		uprox®+	2, 	 , NPN	10...30 VDC	150 DC, (K)	
		Sn +	2, 	 , PNP	10...30 VDC	150 DC, (K)	
		Sn +	2, 	 , NPN	10...30 VDC	150 DC, (K)	
		Ø6,5  II 1 G  II 1 D	3, 	NAMUR	nom. 8.2 VDC	-	
		-	3, 	 , PNP	10...30 VDC	200 DC, (K)	
		-	3, 	 , NPN	10...30 VDC	150 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI2-EH6,5K-AP6X	4610000 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI2-EH6,5K-RP6X	4610001	S054	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI2-EH6,5K-AN6X	4610100	S004	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI1,5-EH6,5K-Y1	1004600 ✘	S025	5	-25...+70	IP67	V4A (1.4404)	PA	PVC 2 m	-	-
BI1,5-EH6,5K-AP6X	4610540 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI1,5-EH6,5K-AN6X	4610640 ✘	S004	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI1,5-HS865-Y1	1004201	S025	5	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
BI1,5-HS865-AP6X	4604201 ✘	S001	3	-25...+70	IP67	CuZn-Cr	PA	PUR 2 m	-	•
BI1,5-HS865-AN6X	4604301	S004	3	-25...+70	IP67	CuZn-Cr	PA	PUR 2 m	-	•
BI2U-EH6,5-AP6X	4281150 ✘	S001	1	-30...+85	IP68	V4A (1.4404)	PA	PUR 2 m	-	•
BI2U-EH6,5-RP6X	4281151	S054	1	-30...+85	IP68	V4A (1.4404)	PA	PUR 2 m	-	•
BI2U-EH6,5-AN6X	4281170	S004	1	-30...+85	IP68	V4A (1.4404)	PA	PUR 2 m	-	•
BI2-EH6,5-AP6X	4612200 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI2-EH6,5-AN6X	4612300 ✘	S004	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
NI3-EH6,5K-Y1	1004700 ✘	S025	5	-25...+70	IP67	V4A (1.4404)	PA	PVC 2 m	-	-
NI3-EH6,5K-AP6X	4610200 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
NI3-EH6,5K-AN6X	4610300	S004	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•

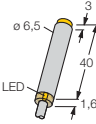









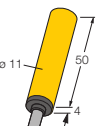







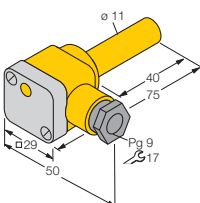





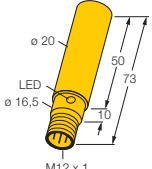




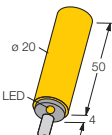






Sensortechnik/Sensors/
DéTECTEURS

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

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 <p>Ø6,5</p>		aprox®+	6, 	 , PNP	10...30 VDC	150 DC, (K)
		aprox®+	6, 	 , NPN	10...30 VDC	150 DC, (K)
		-	3, 	 , PNP	10...30 VDC	150 DC, (K)
		-	3, 	 , NPN	10...30 VDC	150 DC, (K)
 <p>Ø11</p> <p>Montageschelle BS11 im Lieferumfang enthalten/Mounting clamp BS11 included in delivery/ Bride de montage BS11 incluse</p>		(Ex) II 2 G	2, 	NAMUR	nom. 8.2 VDC	-
		(Ex) II 1 D	2, 	 , PNP	10...30 VDC	200 DC, (K)
		-	5, 	NAMUR	nom. 8.2 VDC	-
		-	5, 	 , PNP	10...30 VDC	200 DC, (K)
 <p>Ø11</p> <p>Montageschelle BS11 im Lieferumfang enthalten/Mounting clamp BS11 included in delivery/ Bride de montage BS11 incluse</p>		-	2, 	 , PNP	10...30 VDC	200 DC, (K)
		-	5, 	 , PNP	10...30 VDC	200 DC, (K)
 <p>Ø20</p> <p>Montageschelle BS20 im Lieferumfang enthalten/Mounting clamp BS20 included in delivery/ Bride de montage BS20 incluse</p>		-	10, 	 , PNP	10...30 VDC	200 DC, (K)
		-	10, 			
 <p>Ø20</p> <p>Montageschelle BS20 im Lieferumfang enthalten/Mounting clamp BS20 included in delivery/ Bride de montage BS20 incluse</p>		(Ex) II 2 G	10, 	NAMUR	nom. 8.2 VDC	-
		(Ex) II 1 D	10, 	 , PNP	10...30 VDC	200 DC, (K)
		-	10, 	 , NPN	10...30 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
NI6U-EH6,5-AP6X	4631500 ✘	S001	1	0...+70	IP68	V4A (1.4404)	PA	PUR 2 m	-	•
NI6U-EH6,5-AN6X	4631520	S004	1	0...+70	IP68	V4A (1.4404)	PA	PUR 2 m	-	•
NI3-EH6,5-AP6X	4612400 ✘	S001	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
NI3-EH6,5-AN6X	4612500	S004	3	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	•
BI2-K11-Y1	10070 ✘	S025	5	-25...+70	IP67	PA	PA	PVC 2 m	-	-
BI2-K11-AP6X	46609 ✘	S001	2	-25...+70	IP67	PA	PA	PVC 2 m	-	•
NI5-K11-Y1	10071 ✘	S025	2	-25...+70	IP67	PA	PA	PVC 2 m	-	-
NI5-K11-AP6X	46611 ✘	S001	1.5	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BI2-K11SK-AP6X	46615 ✘	S003	2	-25...+70	IP67	PA	PA	-	-	•
NI5-K11SK-AP6X	46617 ✘	S003	1.5	-25...+70	IP67	PA	PA	-	-	•
NI10-K20-AP6X-H1141	4664200	S002	1	-25...+70	IP67	PBT	PBT	-	-	•
NI10-K20-Y1	10072 ✘	S025	0.5	-25...+70	IP67	PBT	PBT	PVC 2 m	-	-
NI10-K20-AP6X	46640 ✘	S001	1	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•
NI10-K20-AN6X	46641 ✘	S004	1	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•

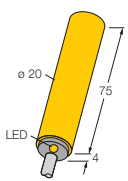

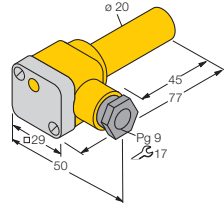

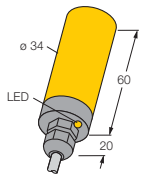

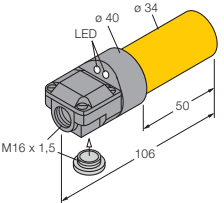

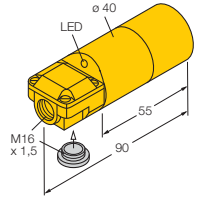

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
 <p>Montageschelle BS20 im Lieferumfang enthalten/Mounting clamp BS20 included in delivery/ Bride de montage BS20 incluse</p>	Ø20	–	10, 	–	20...250 VAC 10...300 VDC	400 AC 300 mA	
	–	–	–	–	–	–	
 <p>Montageschelle BS20 im Lieferumfang enthalten/Mounting clamp BS20 included in delivery/ Bride de montage BS20 incluse</p>	Ø20	uprox®	5, 	–	10...30 VDC	200 DC, (K)	
	–	–	–	–	–	–	
	–	–	–	–	–	–	–
	–	–	–	–	–	–	–
	–	–	–	–	–	–	–
	–	–	–	–	–	–	–
	–	–	–	–	–	–	–
 <p>Montageschelle BS34.1 im Lieferumfang enthalten/Mounting clamp BS34.1 included in delivery/ Bride de montage BS34.1 incluse</p>	Ø34	–	20, 	–	10...65 VDC	200 DC, (K)	
	–	–	–	–	–	–	
 <p>Montageschelle BS34.1 im Lieferumfang enthalten/Mounting clamp BS34.1 included in delivery/ Bride de montage BS34.1 incluse</p>	Ø34	–	20, 	–	10...65 VDC	200 DC, (K)	
	–	–	–	–	–	–	
 <p>Montageschelle BS40 im Lieferumfang enthalten/Mounting clamp BS40 included in delivery/ Bride de montage BS40 incluse</p>	Ø40	rotation monitoring	15, 	–	10...65 VDC	200 DC, (K)	
	–	–	–	–	–	–	
	–	–	–	–	–	–	–
	–	–	–	–	–	–	–
	–	–	–	–	–	–	–
	–	–	–	–	–	–	–

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED
NI10-K20-AZ3X	43585 ✘	S092	0.02	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•
BI5U-K20SK-AP6X	1635130	S003	1	-30...+85	IP68	PBT	PBT	-	-	•
BI5U-K20SK-AN6X	1635131	S006	1	-30...+85	IP68	PBT	PBT	-	-	•
NI12U-K20SK-AP6X	1645330	S003	1	-30...+85	IP68	PBT	PBT	-	-	•
NI12U-K20SK-AN6X	1645331	S006	1	-30...+85	IP68	PBT	PBT	-	-	•
NI10-K20SK-AP6X	46646 ✘	S003	1	-25...+70	IP67	PBT	PBT	-	-	•
NI10-K20SK-AN6X	46648	S006	1	-25...+70	IP67	PBT	PBT	-	-	•
NI10-K20SK-AZ3X	43591 ✘	S095	0.02	-25...+70	IP67	PBT	PBT	-	-	•
NI20-K34-VP4X	1565602 ✘	S007	0.5	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•
NI20-K34SR-VP4X2	1565601 ✘	S009	0.5	-25...+70	IP67	PBT	PBT	-	•	•
DBI15U-K40SR-AP4X2	1500201	S058	-	-30...+85	IP67	ABS	ABS	-	•	•
DNI30U-K40SR-AP4X2	1500202	S058	-	-30...+85	IP67	ABS	ABS	-	•	•
NI30-K40SR-VP4X2	15658 ✘	S009	0.1	-25...+70	IP67	ABS	ABS	-	•	•
NI30-K40SR-VN4X2	15758 ✘	S012	0.1	-25...+70	IP67	ABS	ABS	-	•	•
NI30-K40SR-FZ3X2	13425 ✘	S016	0.02	-25...+70	IP67	ABS	ABS	-	•	•
NI20-K40SR-VP4X2	15656 ✘	S009	0.1	-25...+70	IP67	ABS	ABS	-	•	•

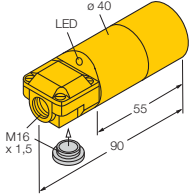




Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren

Inductive sensors

Détecteurs inductifs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
 <p>Montageschelle BS40 im Lieferumfang enthalten/Mounting clamp BS40 included in delivery/ Bride de montage BS40 incluse</p>	Ø40	–	–, NPN	10...65 VDC	200 DC, (K)		
		–	20, 	program.	20...250 VAC 10...300 VDC	400 AC 300 mA	
		–	20, 	–, PNP	10...30 VDC	200 DC, (K)	
		–	20, 	–, NPN	10...30 VDC	200 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
NI20-K40SR-VN4X2	15756 x	S012	0.1	-25...+70	IP67	ABS	ABS	-	•	•
NI20-K40SR-FZ3X2	13424 x	S016	0.02	-25...+70	IP67	ABS	ABS	-	•	•
NI20-K40SR-AP6X	16026 x	S003	0.1	-25...+70	IP67	ABS	ABS	-	-	•
NI20-K40SR-AN6X	16226 x	S006	0.1	-25...+70	IP67	ABS	ABS	-	-	•

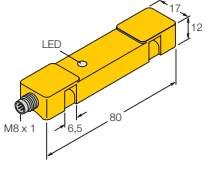

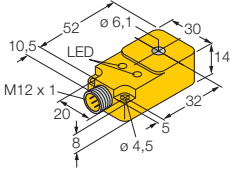
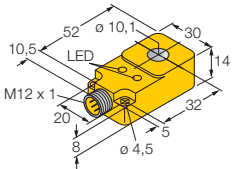
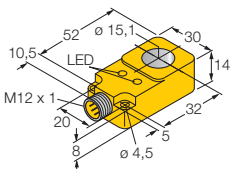
Sensortechnik/Sensors/
DéTECTEURS

x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren, ringförmig

Inductive sensors, ring type

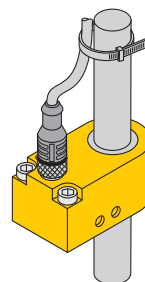
Détecteurs inductifs, annulaires

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Ringinnen- durchmesser Internal ring diameter Diamètre de passage [mm]	Min. Objekt- größe Min. target diameter Dimension min. de l'objet [mm]	Ausgang Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebs- strom I_B Operational current I_B Courant de service I_B [mA]	
 	TS12						
	<i>uprox</i> [®] +, static output <i>uprox</i> [®] +, static output				— / —, PNP — / —, NPN	10...30 VDC 10...30 VDC	200 DC, (K) 200 DC, (K)
	Q14	6.1	2 K				
	static output static output	6.1	2 K	— / —, PNP — / —, NPN	10...30 VDC 10...30 VDC	200 DC, (K) 200 DC, (K)	
	Q14	10.1	2 K				
	static output static output	10.1	2 K	— / —, PNP — / —, NPN	10...30 VDC 10...30 VDC	200 DC, (K) 200 DC, (K)	
	Q14	15.1	3 K				
	static output static output	15.1	3 K	— / —, PNP — / —, NPN	10...30 VDC 10...30 VDC	200 DC, (K) 200 DC, (K)	

Montage des Kabels mit der Bauform W30S eng am Schlauch möglich!
Keine störenden Kabelschlaufen, geringer Platzbedarf.

The cable may be mounted closely to the tube when using the housing style
W30S. No cable loops, min. space requirements.

Montage du câble près du tuyau possible pour le format W30S. Pas de boucles
de câbles, encombrement minimal.



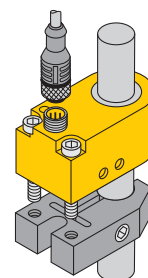
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Folge- frequenz Reading rate frequency Fréquence de mesure [Hz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852)		Matériaux Kabellänge Cable length Longueur de câble	LED	
							Spulenkörper Coil body Corps de bobine			U _B	⌋
NI20U-TS12-AP6X2-V1131	1646640 ^x	S002	8	-25...+70	IP68	PBT				•	•
NI20U-TS12-AN6X2-V1131	1625822	S005	8	-25...+70	IP68	PBT				•	•
BI6R-Q14-AP6X2-H1141	1407000 ^x	S002	8	-25...+70	IP67	PBT	POM			•	•
BI6R-Q14-AN6X2-H1141	1407020	S005	8	-25...+70	IP67	PBT	POM			•	•
BI10R-Q14-AP6X2-H1141	1407100 ^x	S002	8	-25...+70	IP67	PBT	POM			•	•
BI10R-Q14-AN6X2-H1141	1407120	S005	8	-25...+70	IP67	PBT	POM			•	•
BI15R-Q14-AP6X2-H1141	1407200 ^x	S002	8	-25...+70	IP67	PBT	POM			•	•
BI15R-Q14-AN6X2-H1141	1407220	S005	8	-25...+70	IP67	PBT	POM			•	•

Sensortechnik/Sensors/
Détecteurs

Montagezubehör für Ringsensoren der Bauformen W30 und W30S siehe Zubehör!

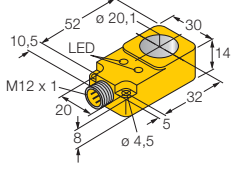
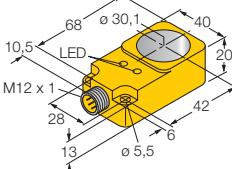
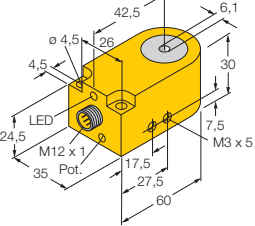
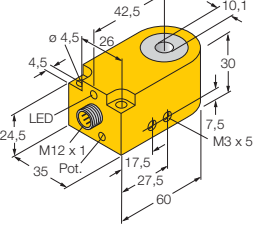
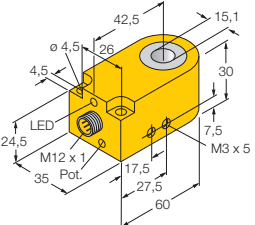
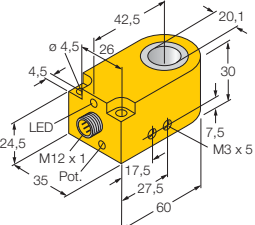
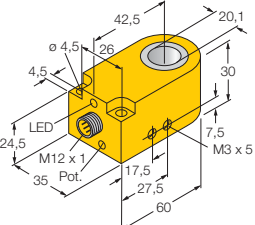
Mounting accessories for ring sensors, types W30 and W30S, are described in the accessory chapter.

Accessoires de montage pour les détecteurs annulaires des types W30 et W30S: voir accessoires.



^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren, ringförmig
Inductive sensors, ring type
Détecteurs inductifs, annulaires

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Ringinnen- durchmesser Internal ring diameter Diamètre de passage [mm]	Min. Objekt- größe Min. target diameter Dimension min. de l'objet [mm]	Ausgang Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebs- strom I_B Operational current I_B Courant de service I_B [mA]	
	Q14						
	static output	20.1	4 K	—, PNP	10...30 VDC	200 DC, (K)	
	Q20						
	static output	30.1	6 K	—, PNP	10...30 VDC	200 DC, (K)	
	W30						
	dynamic output	6.1	0.6 K	—, PNP	10...30 VDC	200 DC, (K)	
	W30						
	dynamic output	10.1	1 K	—, PNP	10...30 VDC	200 DC, (K)	
	W30						
	dynamic output	15.1	1.5 K	—, PNP	10...30 VDC	200 DC, (K)	
	dynamic output	15.1	3 K	—, PNP	10...30 VDC	200 DC, (K)	
	W30						
	dynamic output	20.1	2 K	—, PNP	10...30 VDC	200 DC, (K)	
	W30						
	dynamic output	20.1	2 K	—, NPN	10...30 VDC	200 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Folge- frequenz Reading rate frequency Fréquence de mesure [Hz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852)		Matériaux Kabellänge Cable length Longueur de câble	LED	
							Spulenkörper Coil body Corps de bobine			U _B	⌋
BI20R-Q14-AP6X2-H1141	1407300✘	S002	8	-25...+70	IP67	PBT	POM		•	•	
BI20R-Q14-AN6X2-H1141	1407320✘	S005	8	-25...+70	IP67	PBT	POM		•	•	
BI30R-Q20-AP6X2-H1141	1407500✘	S002	8	-25...+70	IP67	PBT	POM		•	•	
BI30R-Q20-AN6X2-H1141	1407520	S005	8	-25...+70	IP67	PBT	POM		•	•	
BI6R-W30-DAP6X-H1141	14036✘	S002	8	-25...+70	IP67	PA	POM			•	
BI6R-W30-DAN6X-H1141	14037	S005	8	-25...+70	IP67	PA	POM			•	
BI10R-W30-DAP6X-H1141	14038✘	S002	8	-25...+70	IP67	PA	POM			•	
BI10R-W30-DAN6X-H1141	14039✘	S005	8	-25...+70	IP67	PA	POM			•	
BI15R-W30-DAP6X-H1141	14040✘	S002	8	-25...+70	IP67	PA	POM			•	
BI15R-W30-AP6X-H1141	1404030✘	S002	8	-25...+70	IP67	PA	POM			•	
BI15R-W30-DAN6X-H1141	14041	S005	8	-25...+70	IP67	PA	POM			•	
BI20R-W30-DAP6X-H1141	14042✘	S002	8	-25...+70	IP67	PA	POM			•	
BI20R-W30-DAN6X-H1141	14043✘	S005	8	-25...+70	IP67	PA	POM			•	

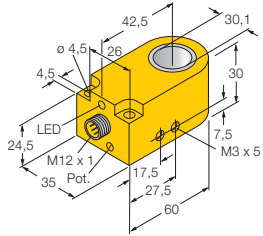
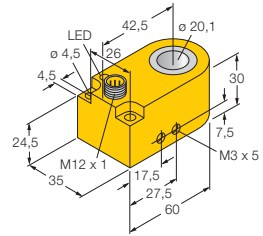
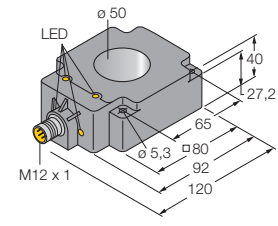
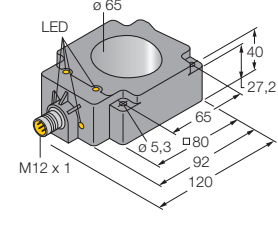
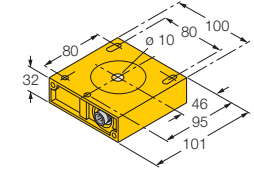
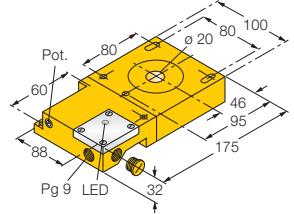
Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren, ringförmig

Inductive sensors, ring type

Détecteurs inductifs, annulaires

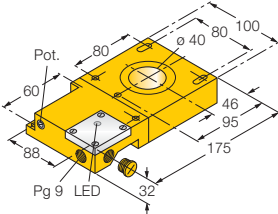

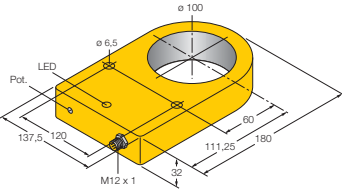

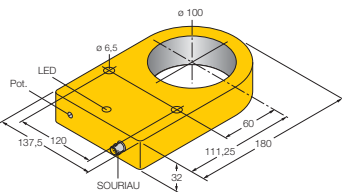

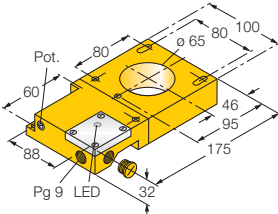

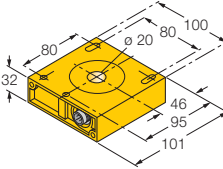

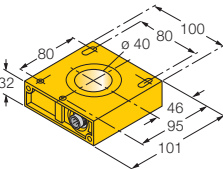

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Ringinnen- durchmesser Internal ring diameter Diamètre de passage [mm]	Min. Objekt- größe Min. target diameter Dimension min. de l'objet [mm]	Ausgang Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebs- strom I_B Operational current I_B Courant de service I_B [mA]	
	W30						
	dynamic output	30.1	3 K	—, PNP	10...30 VDC	200 DC, (K)	
	W30S						
	dynamic output	20.1	4 K	—, PNP	10...30 VDC	200 DC, (K)	
	Q80						
	static output	50	8 K	—, PNP	10...30 VDC	200 DC, (K)	
	Q80						
	static output	65	10 K	—, PNP	10...30 VDC	200 DC, (K)	
	S32						
	static output	10					
	S32SR						
	static output	20	0.4 D	—, PNP	10...55 VDC	200 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Folge- frequenz Reading rate frequency Fréquence de mesure [Hz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852)		Matériaux Kabellänge Cable length Longueur de câble	LED	
							Spulenkörper Coil body Corps de bobine			U _B	⌋
BI30R-W30-DAP6X-H1141	14045 X	S002	8	-25...+70	IP67	PA	POM				•
BI30R-W30-DAN6X-H1141	1404501	S005	8	-25...+70	IP67	PA	POM				•
BI20R-W30S-AP6X-H1141	1403231 X	S002	8	-25...+70	IP67	PA	POM				•
BI50R-Q80-AP6X2-H1141	1407530 X	S002	10	-25...+70	IP67	PBT	PA			•	•
BI65R-Q80-AP6X2-H1141	1407531 X	S002	10	-25...+70	IP67	PBT	PA			•	•
NI10R-	1430201 X			-25...+70	IP65	ABS	ABS				
NI20R-S32SR-VP44X	1440001 X	S009	8	-25...+70	IP65	ABS	ABS				•

Sensortechnik/Sensors/
Détecteurs

X = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren, ringförmig
Inductive sensors, ring type
Détecteurs inductifs, annulaires

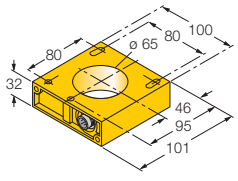

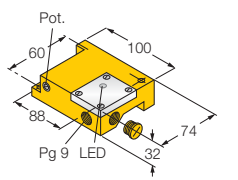

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Ringinnen- durchmesser Internal ring diameter Diamètre de passage [mm]	Min. Objekt- größe Min. target diameter Dimension min. de l'objet [mm]	Ausgang Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebs- strom I_B Operational current I_B Courant de service I_B [mA]	
 <p>S32SR</p> 	static output	40	1 D	—, PNP	10...55 VDC	200 DC, (K)	
 <p>S32XL</p> 	static output static output	100 100	10 K / 4 D 10 K / 4 D	—, PNP —, PNP	10...55 VDC 10...55 VDC	200 DC, (K) 200 DC, (K)	
 <p>S32XL</p> 	static output	100	10 K / 4 D	—, PNP	10...55 VDC	200 DC, (K)	
 <p>S32SR</p> 	static output	65	12 K / 2 D	—, PNP	10...55 VDC	200 DC, (K)	
 <p>S32</p> 	static output	20	0.4 D				
 <p>S32</p> 	static output	40	1 D				

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Folge- frequenz Reading rate frequency Fréquence de mesure [Hz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852)		Matériaux Kabellänge Cable length Longueur de câble	LED	
							Spulenkörper Coil body Corps de bobine			U _B	⌋
NI40R-S32SR-VP44X	1440005✘	S009	8	-25...+70	IP65	ABS	ABS				•
NI100R-S32XL-VP44X-H1141	1510301✘	S008	8	-25...+70	IP67	POM	POM				•
NI100R-S32XL-VP44X-H1141/F2	1510303	S008	8	-25...+70	IP67	POM	POM				•
NI100R-S32XL-AP44X-S1131	1510302✘	S002	8	-25...+70	IP67	POM	POM				•
NI65R-S32SR-VP44X	1440008✘	S009	8	-25...+70	IP65	ABS	POM				•
NI20R-	1410001✘			-25...+70	IP65	ABS	ABS				
NI40R-	1430101✘			-25...+70	IP65	ABS	ABS				

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren, ringförmig
Inductive sensors, ring type
Détecteurs inductifs, annulaires

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Ringinnen- durchmesser Internal ring diameter Diamètre de passage [mm]	Min. Objekt- größe Min. target diameter Dimension min. de l'objet [mm]	Ausgang Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebs- strom I_B Operational current I_B Courant de service I_B [mA]	
	S32 	65	12 K / 2 D				
	S32 			PNP	10...55 VDC	200 DC	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Folge- frequenz Reading rate frequency Fréquence de mesure [Hz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852)		Matériaux Kabellänge Cable length Longueur de câble	LED	
							Spulenkörper Coil body Corps de bobine			U _B	└┘
NI65R-	1440007 ^x			-25...+70	IP65	ABS	POM				
S32SR-VP44X	1440010 ^x	S009	8	-25...+70	IP65	ABS	ABS			•	

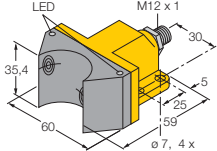




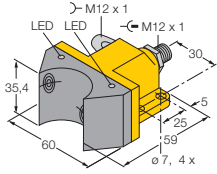




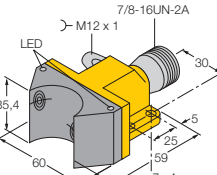






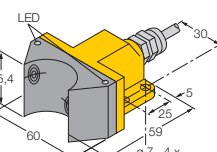






Sensortechnik/Sensors/
Détecteurs

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren, Schwenkantriebe

Inductive sensors, rotary Actuators

Détecteurs inductifs, actionneurs d'électrovannes

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S_n Sensing range S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]		
	DSU35 	Ex II 2 G Ex II 1 D	4, 	NAMUR	nom. 8.2 VDC	-	
		-	4, 	 , PNP	10...65 VDC	200 DC, K	
	DSU35 	AS-Interface	4, 	AS-i V2.1	18...33 VDC	-	
		DeviceNet™	4, 	 , DeviceNet™	11...25 VDC	-	
	DSU35 	Ex II 2 G Ex II 1 D SIL2	4, 	NAMUR	nom. 8.2 VDC	-	
		-	4, 	 , PNP	10...65 VDC	200 DC, K	
		-	4, 	2 x 	20...250 VAC 10...300 VDC	400 AC 300 DC, K	
	DSU35 	Ex II 2 G Ex II 1 D	4, 	NAMUR	nom. 8.2 VDC	-	
		-	4, 	 , PNP	10...65 VDC	200 DC, K	
		-	4, 	2 x 	20...250 VAC 10...300 VDC	400 AC 300 DC, K	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
NI4-DSU35-2Y1X2-H1140	1051003 ✘	S031	0.05	-25...+70	IP67	PP	PP	-	-	●●
NI4-DSU35-2AP4X2-H1141	1569901 ✘	S029	0.05	-25...+70	IP67	PP	PP	-	-	●●
NI4-DSU35-2ASIX4-H1140	1902000 ✘	S053	0.03	-25...+70	IP67	PP	PP	-	-	●●
NI4-DSU35-2DNETX5-H1150	1569908	S131	0.05	-25...+70	IP67	PP	PP	-	-	●●
NI4-DSU35-2Y1X2-B1160-FKE4.3	1051015	S171	0.05	-25...+70	IP67	PP	PP	-	-	●●
NI4-DSU35-2AP4X2-B1160-FKE4.5	1569923 ✘	S168	0.05	-25...+70	IP67	PP	PP	-	-	●●
NI4-DSU35-2ADZ30X2-B1160-FKE4.5	4290011	S169	0.03	-25...+70	IP67	PP	PP	-	-	●●
NI4-DSU35-2Y1X2	1051002	S030	0.05	-25...+70	IP67	PP	PP	PVC 2 m	-	●●
NI4-DSU35-2AP4X2	1569900 ✘	S028	0.05	-25...+70	IP67	PP	PP	PVC 2 m	-	●●
NI4-DSU35-2ADZ30X2	4290000 ✘	S048	0.03	-25...+70	IP67	PP	PP	PVC 2 m	-	●●

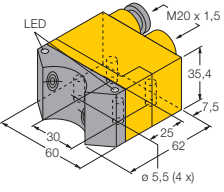












Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren, Schwenkantriebe

Inductive sensors, rotary Actuators

Détecteurs inductifs, actionneurs d'électrovannes

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Schaltabstand S _n Sensing range S _n Distance de commutation S _n [mm]	Ausgang Output Sortie	Betriebsspannung U _B Operational voltage U _B Tension de service U _B [V]	Betriebsstrom I _e Operational current I _e Courant de service I _e [mA]	
 <p>DSU35</p> 	Ex II 2 G Ex II 1 D	4, 	NAMUR	nom. 8.2 VDC	–	
	Ex II 2 G Ex II 1 D SIL2	4, 	NAMUR	nom. 8.2 VDC	–	
	Ex II 2 G Ex II 1 D T -40°C	4, 	NAMUR	nom. 8.2 VDC	–	
	–	4, 	 , PNP	10...65 VDC	200 DC, (K)	
	Ex II 3 G Ex II 3 D	4, 	 , PNP	10...63 VDC	200 DC, (K)	
	–	4, 	 , 2-wire	10...65 VDC	100 DC, (K)	
	–	4, 	2 x 	20...250 VAC 10...300 VDC	400 AC 300 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED
NI4-DSU35TC-2Y1X2	1051004 ✘	S051	0.05	-25...+70	IP67	PP	PP	-	-	••
NI4-DSU35TC-2Y1X2/S933	1051011 ✘	S051	0.05	-25...+70	IP67	PP	PP	-	-	••
NI4-DSU35TC-2Y1X2/S97	1051017 ✘	S051	0.05	-40...+70	IP67	PP	PP	-	-	••
NI4-DSU35TC-2AP4X2	1569902 ✘	S050	0.05	-25...+70	IP67	PP	PP	-	-	••
NI4-DSU35TC-2AP4X2/3GD	1569911 ✘	S050	0.05	-25...+70	IP67	PP	PP	-	-	••
NI4-DSU35TC-2AD4X2	4430130 ✘	S170	0.05	-25...+70	IP67	PP	PP	-	-	••
NI4-DSU35TC-2ADZ30X2	4290002 ✘	S052	0.03	-25...+70	IP67	PP	PP	-	-	••

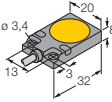


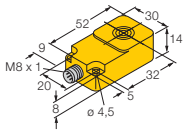


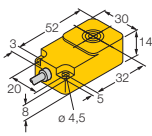


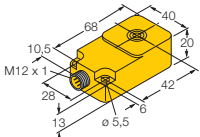


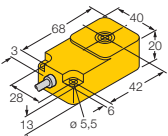


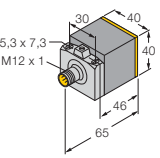




Sensortechnik/Sensors/
Détecteurs

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Induktive Sensoren mit Analogausgang

Inductive sensors with analogue output

Détecteurs inductifs avec sortie analogique

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Messbereich Measuring range Plage de mesure [mm]	Messbereichsgröße Measuring range length Dim. plage de mesure [mm]	Ausgangsart 1 Output type 1 Type de sortie 1 (PIN2, WH)	Ausgangsart 2 Output type 2 Type de sortie 2 (PIN4, BK)	Linearitätsabweichung Linearity error Erreur de linéarité [%]	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	
	Q08 	analog+ 1...4, 	3	I = 0...20 mA	U = 0...10 V	3	15..30 VDC	
	Q14 	analog 3...8, 	5	I = 0...20 mA	U = 0...10 V	3	15..30 VDC	
	Q14 	analog 3...8, 	5	I = 0...20 mA	U = 0...10 V	3	15..30 VDC	
	Q20 	analog 4...11, 	7	I = 0...20 mA	U = 0...10 V	3	15..30 VDC	
	Q20 	analog 4...11, 	7	I = 0...20 mA	U = 0...10 V	3	15..30 VDC	
	CK40 	analog 4...11, 	7	I = 0...20 mA	U = 0...10 V	3	15..30 VDC	
aktive Fläche in 5 Richtungen positionierbar/variable orientation of active face in 5 directions/ Face active peut être positionnée en 5 directions	analog+ 5...25, 	20	I = 0...20 mA	U = 0...10 V	3	15..30 VDC		
	analog+ 5...25, 	20	I = 0...20 mA	U = 0...10 V	3	15..30 VDC		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Messfolgefrequenz Reading rate frequency Fréquence de mesure [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI7-Q08-LIU	1534605 ✘	S033	200	-25...+70	IP67	GD-Zn	PA	PUR 2 m	-	-
BI10-Q14-LIU-V1141	1534603 ✘	S034	140	-25...+70	IP67	PBT	PBT	-	-	-
BI10-Q14-LIU	1534602	S033	140	-25...+70	IP67	PBT	PBT	PUR 2 m	-	-
BI15-Q20-LIU-H1141	1534601 ✘	S034	110	-25...+70	IP67	PBT	PBT	-	-	-
BI15-Q20-LIU	1534600	S033	110	-25...+70	IP67	PBT	PBT	PUR 2 m	-	-
BI15-CK40-LIU-H1141	1537800 ✘	S034	110	-25...+70	IP67	PBT	PA-X	-	-	-
NI25-CK40-LIU-H1141	1537802 ✘	S034	30	-25...+70	IP67	PBT	PA-X	-	-	-
NI25-CK40-LIU2-H1141	1537821 ✘	S034	30	-25...+70	IP67	PBT	PA-X	-	-	-

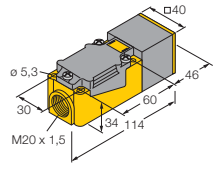


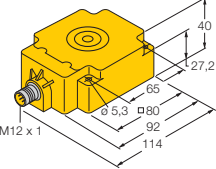

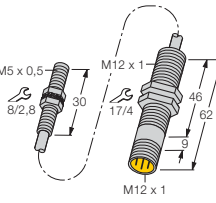

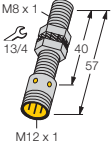

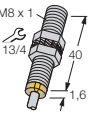

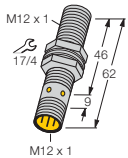


Sensortechnik/Sensors/
Détecteurs

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Induktive Sensoren mit Analogausgang

Inductive sensors with analogue output

Détecteurs inductifs avec sortie analogique

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Messbereich Measuring range Plage de mesure [mm]	Messbereichsgröße Measuring range length Dim. plage de mesure [mm]	Ausgangsart 1 Output type 1 Type de sortie 1 (PIN2, WH)	Ausgangsart 2 Output type 2 Type de sortie 2 (PIN4, BK)	Linearitätsabweichung Linearity error Erreur de linéarité [%]	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]
 <p>CP40</p> <p>aktive Fläche in 9 Richtungen positionierbar/variable orientation of active face in 9 directions/ Face active peut être positionnée en 9 directions</p>	analog	4...11, 	7	I = 0...20 mA	U = 0...10 V	3	15..30 VDC
	analog+	5...25, 	20	I = 0...20 mA	U = 0...10 V	3	15..30 VDC
 <p>Q80</p>	analog+	10...50, 	40	I = 0...20 mA	U = 0...10 V	5	15..30 VDC
 <p>M5 x 0,5</p>	analog+	0.1...1.5, 	1.4	I = 0...20 mA	U = 0...10 V	not linear	15..30 VDC
 <p>M8 x 1</p>	analog	0.25...1.25, 	1	-	U = 0...10 V	3	15..30 VDC
 <p>M8 x 1</p>	analog	0.25...1.25, 	1	-	U = 0...10 V	3	15..30 VDC
 <p>M12 x 1</p>	analog	1...2.5, 	1.5	I = 0...20 mA	U = 0...10 V	3	15..30 VDC
	analog+	0.5...3, 	2.5	I = 0...20 mA	U = 0...10 V	5	15..30 VDC

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Messfolgefrequenz Reading rate frequency Fréquence de mesure [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI15-CP40-LIU	15356 ✘	S035	110	-25...+70	IP67	PBT	PBT	-	-	-
NI25-CP40-LIU	1535544 ✘	S035	30	-25...+70	IP67	PBT	PBT	-	-	-
NI50-Q80-LIU-H1141	1535545 ✘	S034	30	-25...+70	IP67	PBT	PBT	-	-	-
BI1,5-EG05-0,3-M12-SIU-H1141	1533005 ✘	S034	200	-25...+70	IP67	V4A (1.4404)	PA	PVC 0.3 m	-	-
BI1,5-EG08-LU-H1341	1533004 ✘	S098	200	-25...+70	IP67	V4A (1.4404)	PA	-	-	-
BI1,5-EG08-LU	1533003 ✘	S091	200	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	-
BI2-M12-LIU-H1141	1535533	S034	200	-25...+70	IP67	CuZn-Cr	PA	-	-	-
BI4-M12-LIU-H1141	1535531 ✘	S034	200	-25...+70	IP67	CuZn-Cr	PA	-	-	-

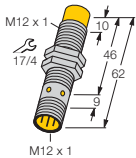


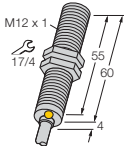



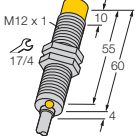


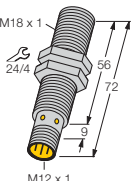



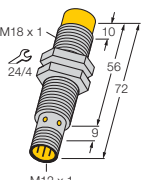



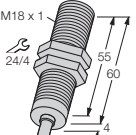



Sensortechnik/Sensors/
Détecteurs

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Induktive Sensoren mit Analogausgang

Inductive sensors with analogue output

Détecteurs inductifs avec sortie analogique

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Messbereich Measuring range Plage de mesure [mm]	Messbereichsgröße Measuring range length Dim. plage de mesure [mm]	Ausgangsart 1 Output type 1 Type de sortie 1 (PIN2, WH)	Ausgangsart 2 Output type 2 Type de sortie 2 (PIN4, BK)	Linearitätsabweichung Linearity error Erreur de linéarité [%]	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	
	M12 x 1 	analog	0.5...4, 	3.5	I = 0...20 mA	U = 0...10 V	3	15..30 VDC
	M12 x 1 	analog	1...2.5, 	1.5	I = 0...20 mA	U = 0...10 V	3	15..30 VDC
		analog+	0.5...3, 	2.5	I = 0...20 mA	U = 0...10 V	5	15..30 VDC
	M12 x 1 	analog	0.5...4, 	3.5	I = 0...20 mA	U = 0...10 V	3	15..30 VDC
	M18 x 1 	analog	2...4, 	2	I = 0...20 mA	U = 0...10 V	3	15..30 VDC
		analog+	1...5, 	4	I = 0...20 mA	U = 0...10 V	5	15..30 VDC
	M18 x 1 	analog	1...5, 	4	I = 0...20 mA	U = 0...10 V	3	15..30 VDC
		analog+	1...7, 	6	I = 0...20 mA	U = 0...10 V	5	15..30 VDC
	M18 x 1 	analog	2...4, 	2	I = 0...20 mA	U = 0...10 V	3	15..30 VDC
		analog+	1...5, 	4	I = 0...20 mA	U = 0...10 V	5	15..30 VDC

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Messfolgefrequenz Reading rate frequency Fréquence de mesure [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
NI5-M12-LIU-H1141	1535535 ✕	S034	100	-25...+70	IP67	CuZn-Cr	PA	-	-	-
BI2-M12-LIU	1535534 ✕	S033	200	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
BI4-M12-LIU	1535532	S033	200	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
NI5-M12-LIU	1535536 -	S033	100	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
BI5-M18E-LIU-H1141	1536205 ✕	S034	200	-25...+70	IP67	CuZn-Cr	PA	-	-	-
BI8-M18E-LIU-H1141	1535561 ✕	S034	200	-25...+70	IP67	CuZn-Cr	PA	-	-	-
NI8-M18E-LIU-H1141	1536302 ✕	S034	100	-25...+70	IP67	CuZn-Cr	PA	-	-	-
NI10-M18E-LIU-H1141	1535562 ✕	S034	100	-25...+70	IP67	CuZn-Cr	PA	-	-	-
BI5-M18-LIU	1536000 ✕	S033	200	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
BI8-M18-LIU	1535538 ✕	S033	200	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-

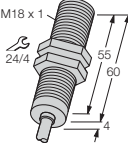



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Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Messbereich Measuring range Plage de mesure [mm]	Messbereichsgröße Measuring range length Dim. plage de mesure [mm]	Ausgangsart 1 Output type 1 Type de sortie 1 (PIN2, WH)	Ausgangsart 2 Output type 2 Type de sortie 2 (PIN4, BK)	Linearitätsabweichung Linearity error Erreur de linéarité [%]	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	
	M18 x 1 	Ex II 1 G Ex II 3 G Ex II 3 D Ex analog+	1...5, 	4	I = 4...20 mA	–	5	14...30
		analog+	1...5, 	4	–	1...10	5	15..30 VDC

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Messfolgefrequenz Reading rate frequency Fréquence de mesure [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI8-M18-LI-EXI	1535528 ✘	S097	200	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
BI8-M18-LF10	1535529	S089	200	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-

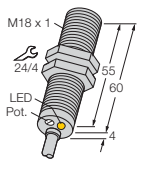



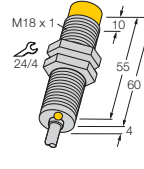




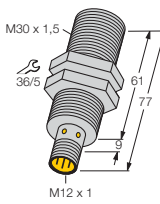






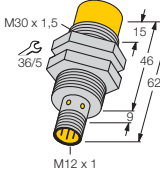


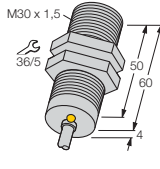








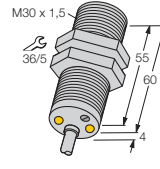



Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren mit Analogausgang

Inductive sensors with analogue output

Détecteurs inductifs avec sortie analogique

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Messbereich Measuring range Plage de mesure [mm]	Messbereichsgröße Measuring range length Dim. plage de mesure [mm]	Ausgangsart 1 Output type 1 Type de sortie 1 (PIN2, WH)	Ausgangsart 2 Output type 2 Type de sortie 2 (PIN4, BK)	Linearitätsabweichung Linearity error Erreur de linéarité [%]	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	
	M18 x 1 	analog+ 1...5, 	4	 , PNP	U = 0...10 V	5	15..30 VDC	
	M18 x 1 	analog 1...5, 	4	I = 0...20 mA	U = 0...10 V	3	15..30 VDC	
	M18 x 1 	analog+ 1...7, 	6	I = 0...20 mA	U = 0...10 V	5	15..30 VDC	
	M30 x 1,5 	analog 3...8, 	5	I = 0...20 mA	U = 0...10 V	3	15..30 VDC	
	M30 x 1,5 	analog+ 2...10, 	8	I = 0...20 mA	U = 0...10 V	5	15..30 VDC	
	M30 x 1,5 	analog 2...12, 	10	I = 0...20 mA	U = 0...10 V	3	15..30 VDC	
	M30 x 1,5 	analog 2...12, 	10	I = 0...20 mA	U = 0...10 V	3	15..30 VDC	
	M30 x 1,5 	analog 3...8, 	5	I = 0...20 mA	U = 0...10 V	3	15..30 VDC	
	M30 x 1,5 	analog+ 2...10, 	8	I = 0...20 mA	U = 0...10 V	5	15..30 VDC	
	M30 x 1,5 	 II 1 G  analog+ 2...10, 	8	I = 4...20 mA	-	5	14...30 VDC	
	M30 x 1,5 	analog+ 2...10, 	8	 , PNP	U = 0...10 V	5	15..30 VDC	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Messfolgefrequenz Reading rate frequency Fréquence de mesure [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ┘
BI8-M18-LUAP6X	4615010 ✕	S090	200	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
NI8-M18-LIU	1536100 ✕	S033	100	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
NI10-M18-LIU	1535540 ✕	S033	100	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
BI10-M30E-LIU-H1141	1537003 ✕	S034	140	-25...+70	IP67	CuZn-Cr	PA	-	-	-
BI15-M30E-LIU-H1141	1535563 ✕	S034	140	-25...+70	IP67	CuZn-Cr	PA	-	-	-
NI15-M30E-LIU-H1141	1535564	S034	60	-25...+70	IP67	CuZn-Cr	PA	-	-	-
NI15-M30-LIU-H1141	1535541	S034	60	-25...+70	IP67	CuZn-Cr	PA	-	-	-
BI10-M30-LIU	15355 ✕	S033	140	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
BI15-M30-LIU	1535543	S033	140	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
BI15-M30-LI-EXI	1535554 ✕	S097	140	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
BI15-M30-LUAP6X	4618510 ✕	S090	140	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•

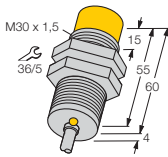


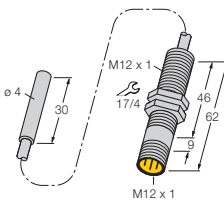


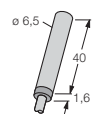


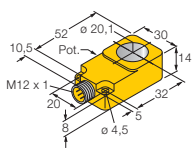

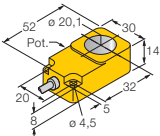

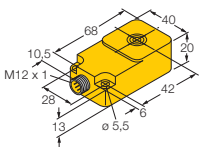


Sensortechnik/Sensors/
Détecteurs

✕ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren mit Analogausgang

Inductive sensors with analogue output

Détecteurs inductifs avec sortie analogique

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Messbereich Measuring range Plage de mesure [mm]	Messbereichsgröße Measuring range length Dim. plage de mesure [mm]	Ausgangsart 1 Output type 1 Type de sortie 1 (PIN2, WH)	Ausgangsart 2 Output type 2 Type de sortie 2 (PIN4, BK)	Linearitätsabweichung Linearity error Erreur de linéarité [%]	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	
	M30 x 1,5 	analog 2...12, 	10	I = 0...20 mA	U = 0...10 V	3	15..30 VDC	
	Ø4 	analog+ 0.1...1.5, 	1.4	I = 0...20 mA	U = 0...10 V	not linear	15..30 VDC	
	Ø6,5 	analog 0.25...1.25, 	1	-	U = 0...10 V	3	15..30 VDC	
	Q14 	analog -	0	-	U = 0...10 V	-	15..30 VDC	
	Q14 	analog -	0	-	U = 0...10 V	-	15..30 VDC	
	Q20 	analog metall distinction 4...11, 	7	I = 0...10 V	U = 0...10 V	3	15..30 VDC	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Messfolgefrequenz Reading rate frequency Fréquence de mesure [kHz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
NI15-M30-LIU	1535300 ✘	S033	60	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
BI1,5-EH04-0,3-M12-SIU-H1141	1533001 ✘	S034	200	-25...+70	IP67	V4A (1.4404)	PA	PVC 0.3 m	-	-
BI1,5-EH6,5-LU	1533002	S091	200	-25...+70	IP67	V4A (1.4404)	PA	PUR 2 m	-	-
BI20R-Q14-LU-H1141	1535548 ✘	S098	80	-25...+70	IP67	PBT	-	-	-	-
BI20R-Q14-LU	1535546 ✘	S091	80	-25...+70	IP67	PBT	-	PVC 2 m	-	-
BI15-Q20-2LU-H1141/S950	1534611 ✘	S177	110	-25...+70	IP67	PBT	PBT	-	-	-

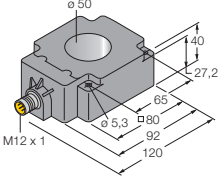
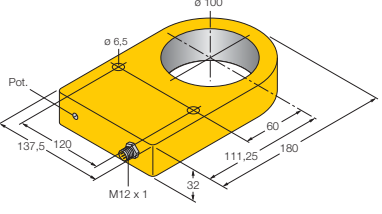
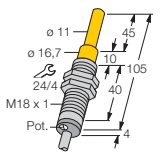

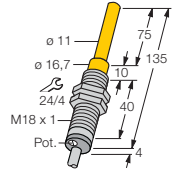

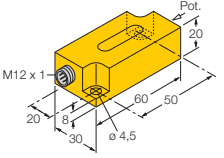

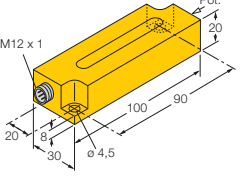

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren mit Analogausgang

Inductive sensors with analogue output

Détecteurs inductifs avec sortie analogique

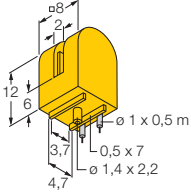

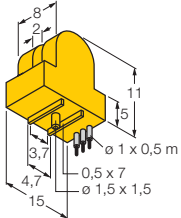

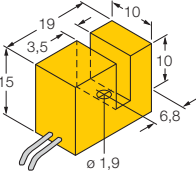

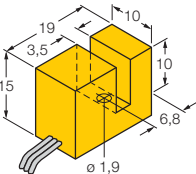

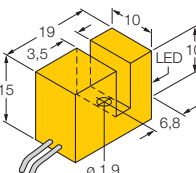

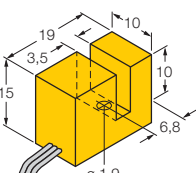

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format	Merkmale Features Caractéristiques	Messbereich Measuring range Plage de mesure [mm]	Messbereichsgröße Measuring range length Dim. plage de mesure [mm]	Ausgangsart 1 Output type 1 Type de sortie 1 (PIN2, WH)	Ausgangsart 2 Output type 2 Type de sortie 2 (PIN4, BK)	Linearitätsabweichung Linearity error Erreur de linéarité [%]	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	
 <p>Q80</p>	analog metall distinction	–	0	I = 0...10 V	U = 0...10 V	3	15..30 VDC	
 <p>S32XL</p>	analog metall distinction	–	0	I = 0...10 V	U = 0...10 V	3	15..30 VDC	
 <p>M18 x 1</p>	analog	0...40, 	40	I = 4...20 mA	U = 0...10 V	2	15..30 VDC	
 <p>M18 x 1</p>	analog	0...70, 	70	I = 4...20 mA	U = 0...10 V	3	15..30 VDC	
 <p>Q20L</p>	analog	10...50, 	40	I = 4...20 mA	U = 0...10 V	2	15..30 VDC	
 <p>Q20L</p>	analog	15...85, 	70	I = 4...20 mA	U = 0...10 V	8	15..30 VDC	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Messfolgefrequenz Reading rate frequency Fréquence de mesure [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) Aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED └┘
BI50R-Q80-2LU-H1141/S950	1534609	S177	80	-25...+70	IP67	PBT	-	-	-	-
NI100R-S32XL-2LU-H1141/S950	1534610	S177	80	-25...+70	IP67	POM	-	-	-	-
WI40-M18-LIU5	1536603 ✘	S033	40	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
WI70-M18-LIU5	1536600 ✘	S033	40	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	-
WIM40-Q20L60-LIU5-H1141	1539280 ✘	S034	1000	-25...+70	IP67	PBT	PBT	-	-	-
WIM70-Q20L100-LIU5-H1141	1539276 ✘	S034	1000	-25...+70	IP67	PBT	PBT	-	-	-

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren, schlitzförmig
Inductive sensors, slot type
Détecteurs inductifs, en forme de fourche

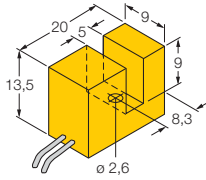

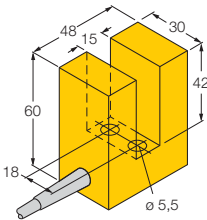

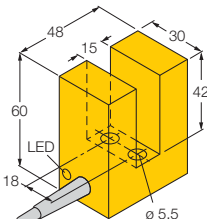

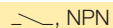
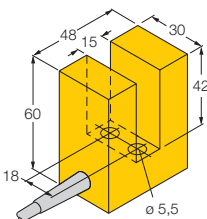


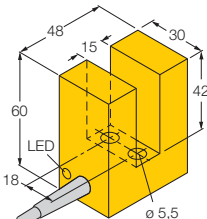


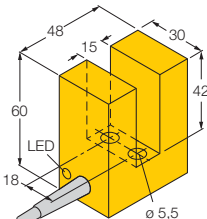

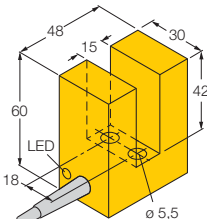

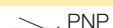
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schlitzweite Slot width Entrefer [mm]	Ausgang Output Sortie	Betriebs- spannung U _B Operational voltage U _B Tension de service U _B [V]	Betriebs- strom I _B Operational current I _B Courant de service I _B [mA]
	K08 	⊕ II 1 G, SIL2 2	NAMUR	8.2 VDC	
	K08 		— , PNP — , NPN	10...30 VDC 10...30 VDC	150 DC 150 DC
	K10 	⊕ II 2 G, SIL2 3.5	NAMUR	8.2 VDC	
	K10 		— , NPN	10...30 VDC	200 DC
	K10 	⊕ II 2 G, SIL2 3.5	NAMUR	8.2 VDC	
	K10 		— , PNP	10...30 VDC	200 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852)		Matériaux Kabellänge Cable length Longueur de câble	LED	
							aktive Fläche Active Face Face active			U _B	⌋
SI2-K08-Y1	1007700	S025	2.5	-25...+70	IP67	Vestamid	Vestamid	Vestamid	PVC 0.5 m		
SI2-K08-AP7	1719501✘	S001	1	-25...+70	IP67	Vestamid	Vestamid	Vestamid	PVC 0.5 m		
SI2-K08-AN7	1719601	S004	1	-25...+70	IP67	Vestamid	Vestamid	Vestamid	PVC 0.5 m		
SI3,5-K10-Y1	10090✘	S025	3	-25...+70	IP67	PBT	PBT	PBT	PVC 0.5 m		
SI3,5-K10-AN7	1719000✘	S004	2	-25...+70	IP67	PBT	PBT	PBT	PVC 0.5 m		
SI3,5-K10-Y1X	40490✘	S025	3	-25...+70	IP67	PBT	PBT	PBT	PVC 0.5 m		•
SI3,5-K10-AP6X	1650001✘	S001	2	-25...+70	IP67	PBT	PBT	PBT	PVC 0.5 m		•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Induktive Sensoren, schlitzförmig
Inductive sensors, slot type
Détecteurs inductifs, en forme de fourche

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schlitzweite Slot width Entrefer [mm]	Ausgang Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebs- strom I_B Operational current I_B Courant de service I_B [mA]	
	K09 	5	NAMUR	8.2 VDC		
	K30 	15	NAMUR	8.2 VDC		
	K30 	15	 , NPN	10...30 VDC	200 DC, (K)	
	K30 	15		20...250 VAC, 10...300 VDC	400 AC, 300 DC	
	K30 	15		20...250 VAC, 10...300 VDC	400 AC, 300 DC	
	K30 	15	NAMUR	8.2 VDC		
	K30 	15	 , PNP	10...30 VDC	200 DC, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852)		Matériaux Kabellänge Cable length Longueur de câble	LED	
							aktive Fläche Active Face Face active			U _B	└┘
SI5-K09-Y1	10075 ✘	S025	5	-25...+70	IP67	PBT	PBT	PVC 0.5 m			
SI15-K30-Y1	10076 ✘	S025	0.5	-25...+70	IP67	PBT	PBT	PVC 2 m			
SI15-K30-AN6X	1605003 ✘	S004	0.5	-25...+70	IP67	PBT	PBT	PVC 2 m			
SI15-K30-AZ3	13069 ✘	S092	0.02	-25...+70	IP67	PBT	PBT	PVC 2 m			
SI15-K30-RZ3	13169 ✘	S094	0.02	-25...+70	IP67	PBT	PBT	PVC 2 m			
SI15-K30-Y1X	1007601	S025	0.5	-25...+70	IP67	PBT	PBT	PVC 2 m			•
SI15-K30-AP6X	1605001 ✘	S001	0.5	-25...+70	IP67	PBT	PBT	PVC 2 m			•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Universelle Magnetfeldsensoren für Pneumatikzylinder

Magnetfeldsensoren werden durch Magnetfelder betätigt und insbesondere zur Erfassung der Kolbenposition in Pneumatikzylindern eingesetzt. Da Magnetfelder nicht magnetisierbare Materialien durchdringen können, ist es möglich, mit dem Sensor einen am Kolben angebrachten Dauermagneten durch die Aluminium-Zylinderwand hindurch zu detektieren.

Die Magnetfeldsensoren von TURCK verfügen über ein patentiertes Funktionsprinzip. Damit können in allen gängigen Zylinderformen Dauermagnete unterschiedlichster Stärke fehlerfrei erfasst werden. Die Sensoren arbeiten völlig verschleißfrei, sind kurzschlussgeschützt und auch als schweißste Version für den Schweißbereich verfügbar.

Universelle Magnetfeldsensoren werden in einer Vielzahl von entsprechenden Befestigungsklemmstücken angeboten und können an nahezu allen Pneumatikzylindern eingesetzt werden:

- Rundzylinder
- Zugankerzylinder
- Profilzylinder (z. B. Festo, Norgren, SMC)
- Nutzylinder (T-Nut, Rundnut, Schwalbenschwanz-Nut ...).

Universal magnetic field sensors for pneumatic cylinders

Universal magnetic field sensors react to magnetic fields and are especially suited for position detection of pistons in pneumatic cylinders. Based on the fact that magnetic fields can permeate non-magnetizable materials, this sensor type is designed to detect a permanent magnet fixed on the piston through the aluminium wall of a cylinder.

TURCK's universal magnetic field sensors have a patented operation principle which enables detection of permanent magnets with different field strengths in all common pneumatic cylinder types. This range of sensors is wear-free, short-circuit protected and includes weld-field immune versions for welding applications.

Universal magnetic field sensors are available in a variety of matching mounting accessories and may be used in combination with almost any pneumatic cylinder type:

- round cylinders
- tie-rod cylinders
- profile cylinders (e.g. Festo, Norgren, SMC)
- groove style cylinders (T-groove, round groove, dovetail-groove ...).



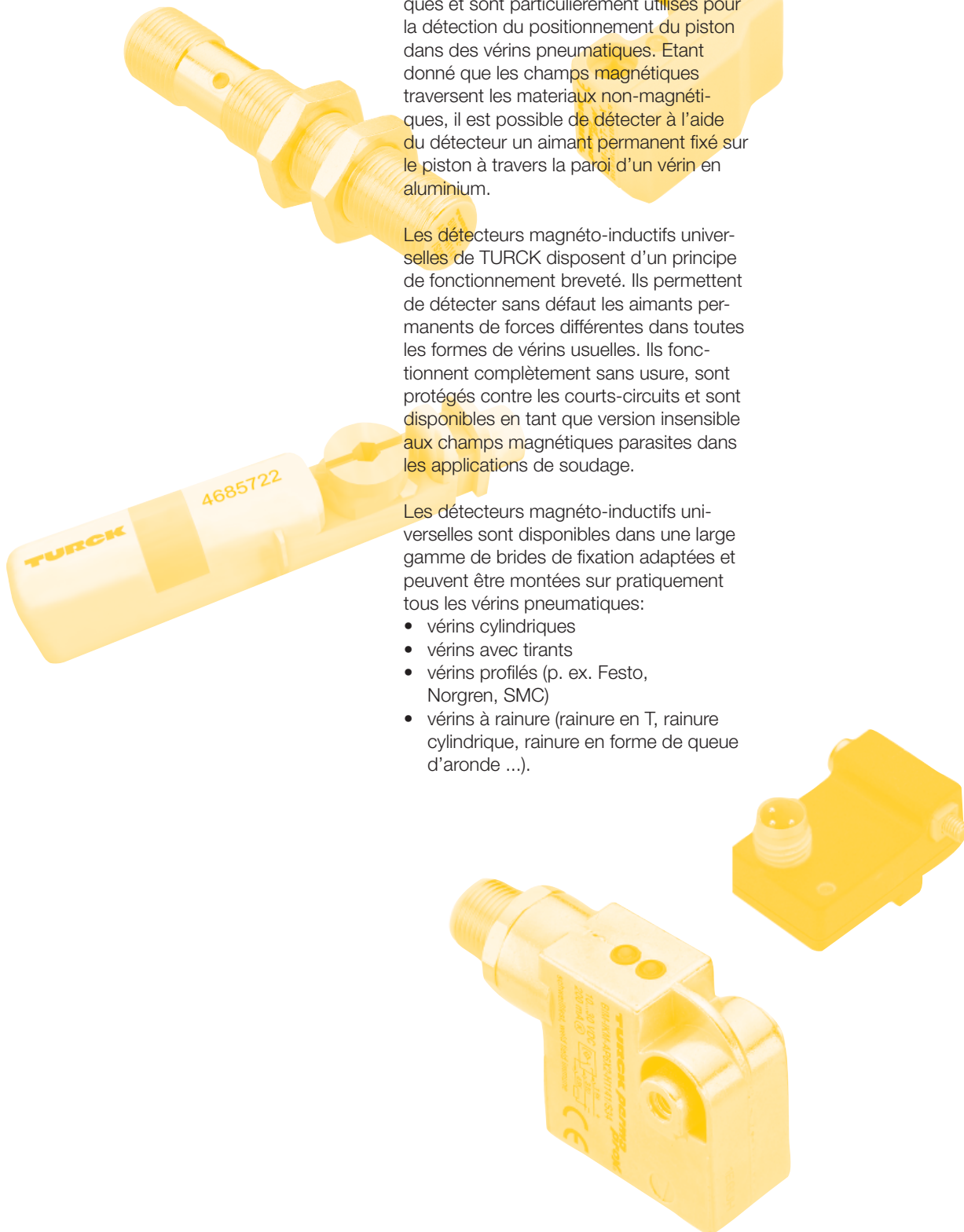
Détecteurs de champs magnétiques universelles pour vérins pneumatiques

Les détecteurs magnétiques universelles sont influencés par des champs magnétiques et sont particulièrement utilisés pour la détection du positionnement du piston dans des vérins pneumatiques. Etant donné que les champs magnétiques traversent les matériaux non-magnétiques, il est possible de détecter à l'aide du détecteur un aimant permanent fixé sur le piston à travers la paroi d'un vérin en aluminium.

Les détecteurs magnéto-inductifs universelles de TURCK disposent d'un principe de fonctionnement breveté. Ils permettent de détecter sans défaut les aimants permanents de forces différentes dans toutes les formes de vérins usuelles. Ils fonctionnent complètement sans usure, sont protégés contre les courts-circuits et sont disponibles en tant que version insensible aux champs magnétiques parasites dans les applications de soudage.

Les détecteurs magnéto-inductifs universelles sont disponibles dans une large gamme de brides de fixation adaptées et peuvent être montées sur pratiquement tous les vérins pneumatiques:

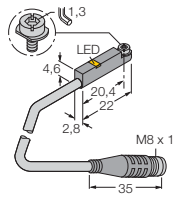

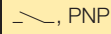
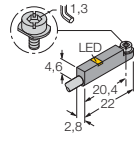

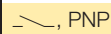
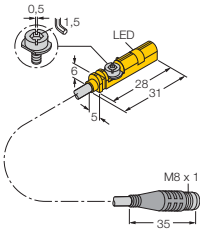

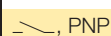
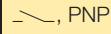
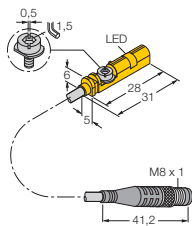

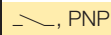
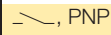
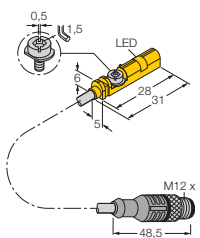

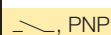
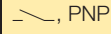
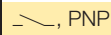
- vérins cylindriques
- vérins avec tirants
- vérins profilés (p. ex. Festo, Norgren, SMC)
- vérins à rainure (rainure en T, rainure cylindrique, rainure en forme de queue d'aronde ...).



Magnetfeldsensoren

Magnetic field sensors

Détecteurs de champs magnétiques

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Zylinderbauform Cylinder style Types de vérins	Merkmale Features Caractéristiques	Ausgang Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de Service U_B [V]	Betriebs- strom I_e Operational current I_e Courant de service I_e [mA]
	INR  C-Nut-Zylinder/ C-groove cylinders/ Vérins à rainure en C		 , PNP	10...30 VDC	100 DC, (K)
	INR  C-Nut-Zylinder/ C-groove cylinders/ Vérins à rainure en C		 , PNP	10...30 VDC	100 DC, (K)
	UNT  T-Nut-Zylinder, andere Zylinderbauform mit Zubehör/T-groove cylinders, other cylind. with accessory/Vérins à rainure en T, autre type de vérin avec accessoire		 , PNP  , PNP	10...30 VDC 10...30 VDC	150 DC, (K) 150 DC, (K)
	UNT  T-Nut-Zylinder, andere Zylinderbauform mit Zubehör/T-groove cylinders, other cylind. with accessory/Vérins à rainure en T, autre type de vérin avec accessoire		 , PNP  , PNP	10...30 VDC 10...30 VDC	150 DC, (K) 150 DC, (K)
	UNT  T-Nut-Zylinder, andere Zylinderbauform mit Zubehör/T-groove cylinders, other cylind. with accessory/Vérins à rainure en T, autre type de vérin avec accessoire		 , PNP  , PNP  , PNP	10...30 VDC 10...30 VDC 10...30 VDC	150 DC, (K) 150 DC, (K) 150 DC, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schalt- frequenz Switching frequency Fréquence de commut. [Hz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852)		Matériaux Kabellänge Cable length Longueur de câble	LED	
							aktive Fläche Active Face Face active			U _B	└┘
BIM-INR-AP6X-0,3-PSG3S	4623702✘	S002	0.5	-25...+70	IP67	PA12	PA	PUR 0.3 m			•
BIM-INR-AP6X	4623700✘	S001	0.5	-25...+70	IP67	PA12	PA	PUR 2 m			•
BIM-UNT-AP6X-0,3-PSG3S	4685722✘	S002	1	-25...+70	IP67	PP	PP	PUR 0.3 m			•
BIM-UNT-AP6X-0,3-PSG3S/S1139	4685743✘	S002	1	-25...+70	IP67	PP	PP	PUR 0.3 m			•
BIM-UNT-AP6X-0,3-PSG3M	4685723✘	S002	1	-25...+70	IP67	PP	PP	PUR 0.3 m			•
BIM-UNT-AP6X-0,3-PSG3M/S1139	4685744✘	S002	1	-25...+70	IP67	PP	PP	PUR 0.3 m			•
BIM-UNT-AP6X-0,3-RS4	4685725✘	S002	1	-25...+70	IP67	PP	PP	PUR 0.3 m			•
BIM-UNT-AP6X-0,3-RS4/S1139	4685731✘	S002	1	-25...+70	IP67	PP	PP	PUR 0.3 m			•
BIM-UNT-AP6X-0,3-RS4/S1160	4685733✘	S002	1	-25...+70	IP67	PP	PP	TPU 0.3 m			•

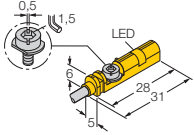


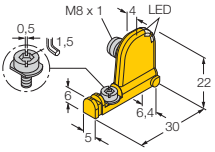


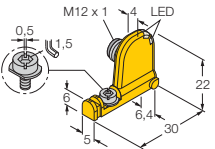


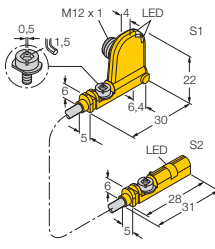


Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Magnetfeldsensoren

Magnetic field sensors

Détecteurs de champs magnétiques

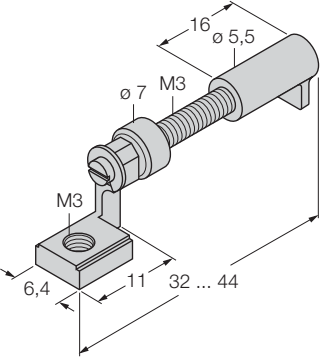
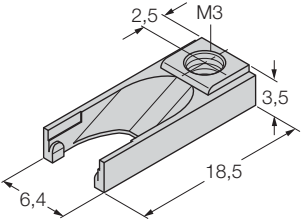
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Zylinderbauform Cylinder style Types de vérins	Merkmale Features Caractéristiques	Ausgang Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de Service U_B [V]	Betriebs- strom I_e Operational current I_e Courant de service I_e [mA]
	UNT 	T-Nut-Zylinder, andere Zylinderbauform mit Zubehör/T-groove cylinders, other cylind. with accessory/Vérins à rainure en T, autre type de vérin avec accessoire	 PNP Langer Überfahrweg/ Long overtravel range/ Course de détec. longue	10...30 VDC	150 DC, (K)
	UNT 	T-Nut-Zylinder, andere Zylinderbauform mit Zubehör/T-groove cylinders, other cylind. with accessory/Vérins à rainure en T, autre type de vérin avec accessoire	 PNP	10...30 VDC	150 DC, (K)
	UNT 	T-Nut-Zylinder, andere Zylinderbauform mit Zubehör/T-groove cylinders, other cylind. with accessory/Vérins à rainure en T, autre type de vérin avec accessoire	 PNP	10...30 VDC	150 DC, (K)
	UNT 	T-Nut-Zylinder, andere Zylinderbauform mit Zubehör/T-groove cylinders, other cylind. with accessory/Vérins à rainure en T, autre type de vérin avec accessoire	2 x  PNP	10...30 VDC	150 DC, (K)

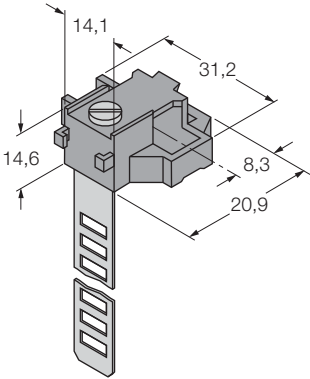
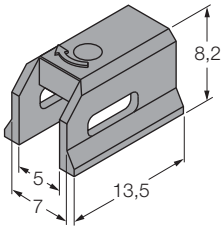
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schalt- frequenz Switching frequency Fréquence de commut. [Hz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852)		Matériaux Kabellänge Cable length Longueur de câble	LED	
							aktive Fläche Active Face Face active			U _B	└┘
BIM-UNT-AP6X	4685720 ^x	S001	1	-25...+70	IP67	PP	PP	PUR 2 m		•	
BIM-UNT-AP6X/S1139	4685729 ^x	S001	1	-25...+70	IP67	PP	PP	PUR 2 m		•	
BIM-UNT-AP6X2-V1131	4685727 ^x	S002	1	-25...+70	IP67	PP	PP	–	•	•	
BIM-UNT-AP6X2-H1141	4685726 ^x	S002	1	-25...+70	IP67	PP	PP	–	•	•	
BIM-UNT-0,3-UNT-2AP6X3-H1141	4685730 ^x	S029	1	-25...+70	IP67	PP	PP	PUR 0.3 m	•	•	

Sensortechnik/Sensors/
Détecteurs

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Magnetfeldsensoren – Montagezubehör
Magnetic field sensors – Mounting accessories
Détecteurs de champs magnétiques – Accessoires de montage

Abmessungen Dimensions Dimensions [mm]	Beschreibung Description Description	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	<p>Zubehör für BIM-UNT zur Feineinstellung des Schaltpunktes, in der Zubehörnut des Sensors einschnappbar, zur Mehrfachverwendung geeignet</p> <p>BIM-UNT accessory for fine-tuning, snap-lock mounting in groove of the sensor, multiple use</p> <p>Accessoire pour BIM-UNT pour le réglage fin du point de commutation, encliquetable dans la rainure d'accessoire du détecteur, approprié à un usage multiple</p>	<p>UNT-Justage</p>	<p>4685750</p>
	<p>Zubehör für BIM-UNT zur Sicherung des Schaltpunktes auf T-Nut-Zylinder, in die Zubehörnut des Sensors einschnappbar</p> <p>BIM-UNT accessory to lock the switch point on the T-groove cylinders, snap-lock mounting in groove of the sensor</p> <p>Accessoire pour BIM-UNT pour la fixation du point de commutation sur le vérin avec rainure en T, encliquetable dans la rainure d'accessoire du détecteur</p>	<p>UNT-Stopper</p>	<p>4685751</p>

Abmessungen Dimensions Dimensions [mm]	Beschreibung Description Description	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	<p>Zubehör für BIM-UNT zur Montage auf Rundzylinder, Durchmesser 8...25 mm BIM-UNT accessory for mounting on cylinders diameters 8...25 mm Accessoire pour BIM-UNT pour le montage sur vérin cylindrique, diamètre 8...25 mm</p> <p>Zubehör für BIM-UNT zur Montage auf Rundzylinder, Durchmesser 25...63 mm BIM-UNT accessory for mounting on cylinders diameters 25...63 mm Accessoire pour BIM-UNT pour le montage sur vérin cylindrique, diamètre 25...63 mm</p> <p>Zubehör für BIM-UNT zur Montage auf Rundzylinder, Durchmesser 63...130 mm BIM-UNT accessory for mounting on cylinders diameters 63...130 mm Accessoire pour BIM-UNT pour le montage sur vérin cylindrique, diamètre 63...130 mm</p>	<p>KLR-UNT1</p> <p>KLR-UNT2</p> <p>KLR-UNT3</p>	<p>6970623</p> <p>6970624</p> <p>6970625</p>
	<p>Zubehör für BIM-UNT zur Montage auf Schwalbenschwanznutzylinder, Nutbreite 7 mm, z. B. Fabco-Air BIM-UNT accessory for mounting on dovetail groove cylinders, groove width 7 mm, e.g. Fabco-Air Accessoire pour BIM-UNT pour le montage sur vérin avec rainure en forme de queue d'aronde, largeur de rainure 7 mm, par ex. Fabco-Air</p>	<p>KLDT-UNT2</p>	<p>6913351</p>

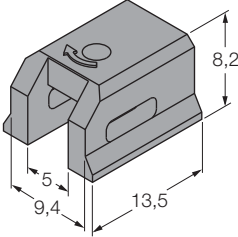
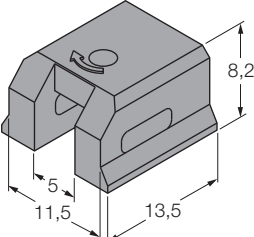
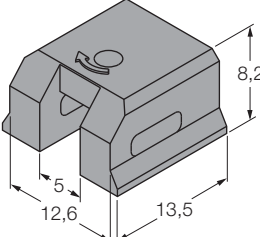
Sensortechnik/Sensors/
Détecteurs

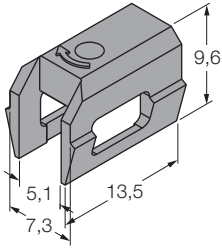
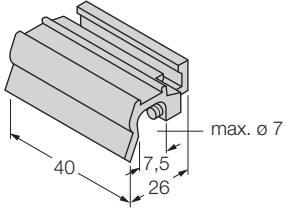
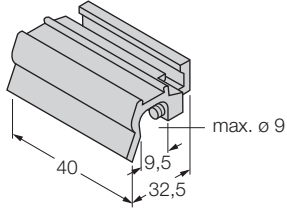
✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Magnetfeldsensoren – Montagezubehör

Magnetic field sensors – Mounting accessories

Détecteurs de champs magnétiques – Accessoires de montage

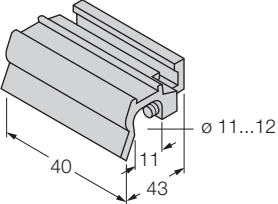
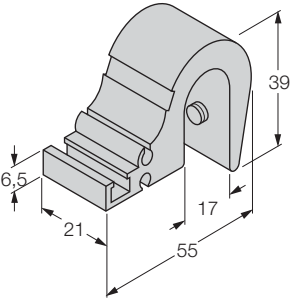
Abmessungen Dimensions Dimensions [mm]	Beschreibung Description Description	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	<p>Zubehör für BIM-UNT zur Montage auf Schwalbenschwanznutzylinder, ab Nutbreite 9,4 mm, z. B. Bosch, Joucomatic, Numatics</p> <p>BIM-UNT accessory for mounting on dovetail groove cylinders, groove width 9.4 mm and wider, e.g. Bosch, Joucomatic, Numatics</p> <p>Accessoire pour BIM-UNT pour le montage sur vérin avec rainure en forme de queue d'aronde, à partir d'une largeur de rainure de 9,4 mm, par ex. Bosch, Joucomatic, Numatics</p>	KLDT-UNT3	6913352
	<p>Zubehör für BIM-UNT zur Montage auf Schwalbenschwanznutzylinder, ab Nutbreite 11,5 mm, z. B. Pneumax</p> <p>BIM-UNT accessory for mounting on dovetail groove cylinders, groove width 11.5 mm and wider, e.g. Pneumax</p> <p>Accessoire pour BIM-UNT pour le montage sur vérin avec rainure en forme de queue d'aronde, à partir d'une largeur de rainure de 11,5 mm, par ex. Pneumax</p>	KLDT-UNT4	6913353
	<p>Zubehör für BIM-UNT zur Montage auf Schwalbenschwanznutzylinder, ab Nutbreite 12,6 mm, z. B. Parker</p> <p>BIM-UNT accessory for mounting on dovetail groove cylinders, groove width 12.6 mm and wider, e. g. Parker</p> <p>Accessoire pour BIM-UNT pour le montage sur vérin avec rainure en forme de queue d'aronde, à partir d'une largeur de rainure de 12,6 mm, par ex. Parker</p>	KLDT-UNT5	6913354

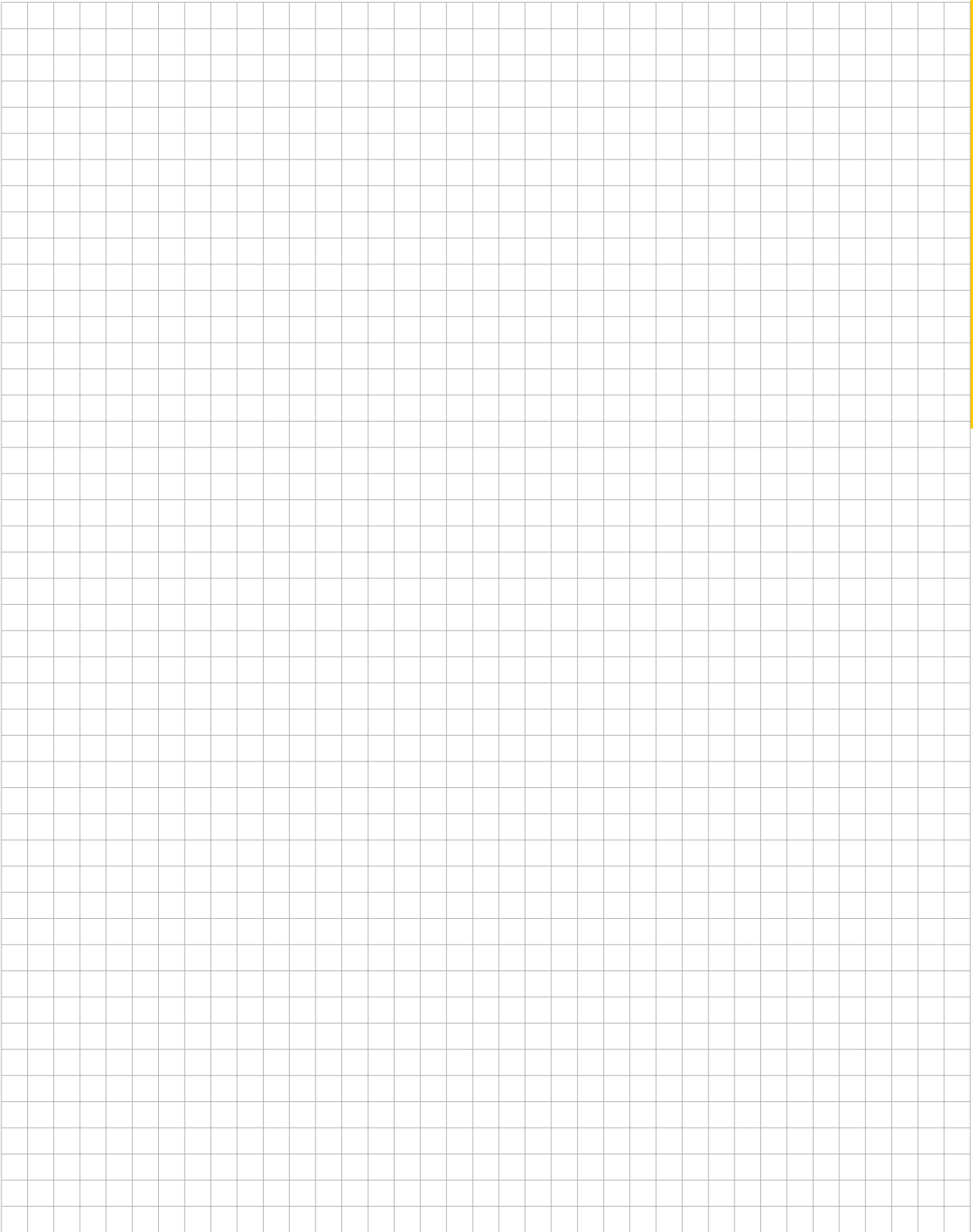
Abmessungen Dimensions Dimensions [mm]	Beschreibung Description Description	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	<p>Zubehör für BIM-UNT zur Montage auf SMC-Zylinder, Zylinder Serie CP95</p> <p>BIM-UNT accessory for mounting on SMC cylinder, cylinder series CP95</p> <p>Accessoire pour BIM-UNT pour le montage sur vérin SMC, série de vérin CP95</p>	KLD1-UNT6	6913355
	<p>Zubehör für BIM-UNT zur Montage auf Zugankerzylinder mit Durchmesser 32... 40 mm</p> <p>BIM-UNT accessory for mounting on tie-rod cylinders, diameters 32 ... 40 mm</p> <p>Accessoire pour BIM-UNT pour le montage sur vérin avec tirant d'un diamètre de 32...40 mm</p>	KLZ1-INT	6970410
	<p>Zubehör für BIM-UNT zur Montage auf Zugankerzylinder mit Durchmesser 50... 63 mm</p> <p>BIM-UNT accessory for mounting on tie-rod cylinders, diameters 50...63 mm</p> <p>Accessoire pour BIM-UNT pour le montage sur vérin avec tirant d'un diamètre de 50...63 mm</p>	KLZ2-INT	6970411

Sensortechnik/Sensors/
Détecteurs

* = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Magnetfeldsensoren – Montagezubehör
Magnetic field sensors – Mounting accessories
Détecteurs de champs magnétiques – Accessoires de montage

Abmessungen Dimensions Dimensions [mm]	Beschreibung Description Description	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	<p>Zubehör für BIM-UNT zur Montage auf Zugankerzylinder mit Durchmesser 80... 100 mm</p> <p>BIM-UNT accessory for mounting on tie-rod cylinders, diameters 80 ... 100 mm</p> <p>Accessoire pour BIM-UNT pour le montage sur vérin avec tirant d'un diamètre de 80...100 mm</p>	KLZ3-INT	6970412
	<p>Zubehör für BIM-UNT zur Montage auf Zugankerzylinder mit Durchmesser 160... 200 mm</p> <p>BIM-UNT accessory for mounting on tie-rod cylinders, diameters 160 ... 200 mm</p> <p>Accessoire pour BIM-UNT pour le montage sur vérin avec tirant d'un diamètre de 160...200 mm</p>	KLZ5-INT	6970413



x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren

Kapazitive Sensoren arbeiten berührungslos, rückwirkungsfrei und kontaktlos. Sowohl elektrisch leitende als auch nicht leitende Materialien werden sicher erfasst. Damit eignen sich kapazitive Sensoren auch für Anwendungsbereiche, in denen das induktive Prinzip versagt.

Typische Applikationsbeispiele für kapazitive Sensoren sind neben den Abstands- und Positionermessungen u. a. die Messung von Durchbiegung, Dicke, Füllstand, Exzentrizität, Rundlauf, Verformung, Verschleiß und Schwingungen.

Merkmale

- Berührungslose Erfassung von Metallen und Nichtmetallen
- Große Schaltabstände (einstellbar)
- Neuartige Nahbereichsausblendung
- Kurzschluss- und Verpolschutz
- Alle Anschlussmöglichkeiten: Steckverbinder, Kabelanschluss und Klemmraum
- Bauformen in Kunststoff, Metall und Dyflor
- Unempfindlich gegen elektromagnetische Störungen (EMV) und statische Entladungen (ESD)
- Schaltzustandsanzeige über LED
- Schutzart bis IP67

Erhöhte Applikationssicherheit durch neuartige Nahbereichsausblendung

Kapazitive Sensoren reagieren auf alle Materialien mit einer Permittivität ϵ_r von größer 1. Um zu vermeiden, dass dadurch auch Schmutzablagerungen und Feuchtigkeit an der aktiven Fläche des Sensors detektiert werden, wurde eine sogenannte Kompensationssonde integriert.

Mit Hilfe der Elektrode wird im Nahbereich der Sensorfläche ein Signal erzeugt, das dem Hauptsignal entgegenwirkt. So entsteht nahe der Elektrode ein Bereich, in dem sich Targets (also auch Schmutz und Feuchtigkeit) befinden können, ohne vom Sensor detektiert zu werden. Dank einer neuartigen Schaltungstechnik funktioniert diese Nahbereichsausblendung auch bei leitenden Filmen.

Capacitive sensors

Capacitive sensors work on the principles of non-contact, isolated and wear-free detection. Both electrically conductive and non-conductive materials are detected reliably. Capacitive sensors can thus be applied in systems where the inductive principle fails.

In addition to distance and position, capacitive sensors measure deflection, thickness, level control, eccentricity, concentricity, deformation, wear and vibrations.

Features

- Non-contact detection of metal and non-metal targets
- Large switching distances (adjustable)
- New close-up range suppression
- Short-circuit and reverse polarity protection
- All connection modes: Connectors, cable connections and terminal chambers
- Dyflor, plastic and metal versions
- EMC and EMD safe
- Switching status displayed via LED
- Degree of protection up to IP67



Détecteurs capacitifs

More application reliability with a new form of close-up range suppression

Capacitive sensors react to all materials with a dielectric constant ϵ_r greater than 1. A so-called compensation probe was integrated in order to prevent the detection of dirt deposits and humidity on the active surface of the sensor.

A signal is given out in the close proximity of the sensor surface with the electrode that counteracts the main signal. An area is thus created near the electrode in which targets such as dirt and humidity are not detected by the sensor. Due to a new switching technology the close-up range suppression works also with conductive films.

Les détecteurs capacitifs fonctionnent sans contact et sans usure. Ils permettent de détecter de manière fiable aussi bien des matériaux conducteurs que non conducteurs. C'est la raison pour laquelle les détecteurs capacitifs sont également appropriés à être utilisés pour les champs d'application où le principe inductif est en défaut.

Des exemples d'application typiques pour les détecteurs capacitifs sont sauf les mesures de distances et de positionnements, e.a. la mesure de flexion, d'épaisseur, de niveau, d'excentricité, de concentricité, de déformation, d'usure et de vibrations.

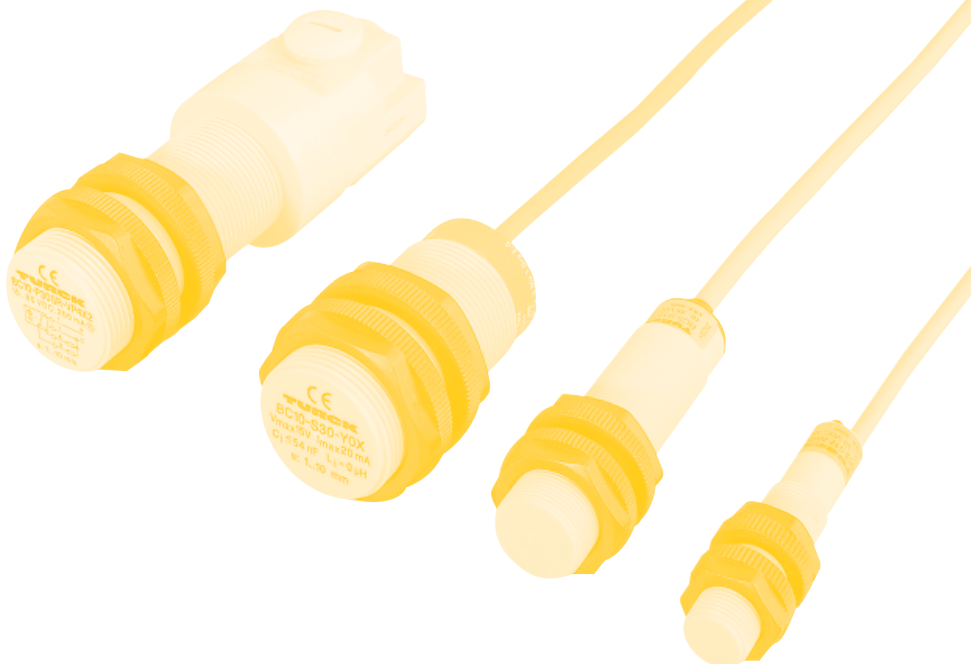
Caractéristiques

- Détection sans contact de métaux et de non-métaux
- Grandes distances de détection (réglables)
- Suppression d'une zone locale (neuve)
- Protection contre les courts-circuits et les inversions de polarité
- Autres possibilités de raccordement: par connecteur, câble ou boîte à bornes
- Formats en plastique, métal et dyflor
- Insensible aux interférences électromagnétiques (EMV) et aux décharges statiques (ESD)
- Visualisation de l'état de commutation par LED
- Degré de protection jusqu'à IP67

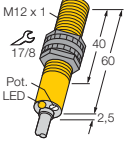













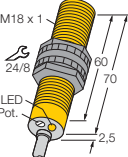













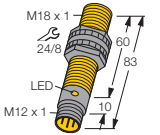













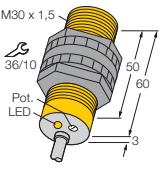









Le nouveau principe de la suppression d'une zone locale assure une certitude d'application élevée




Les détecteurs capacitifs réagissent à tous les matériaux avec une permittivité ϵ_r dépassant 1. Afin d'éviter que des résidus d'encrassement et d'humidité sur la face active du détecteur soient détectés, une „sonde“ de compensation a été intégrée.

Un signal est généré aux alentours de la surface du détecteur en utilisant une électrode. Ce signal agit contre le signal principal. De cette façon une zone est créée près de l'électrode, dans laquelle des objets (donc également des encrassements et de l'humidité) peuvent être présents sans être détectés par le détecteur. Grâce à une nouvelle technique de commutation, cette suppression d'une zone locale fonctionne également pour des films conducteurs.



Kapazitive Sensoren – Standardprogramm zylindrische Bauformen (Kunststoff)
Capacitive Sensors – Standard cylindrical housings (plastic)
Détecteurs capacitifs – Programme standard formats cylindriques (plastiques)

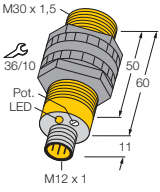

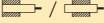

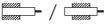

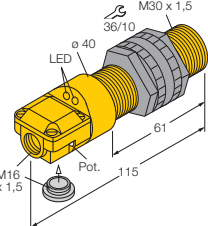

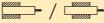

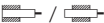

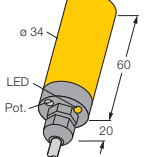

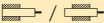

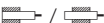

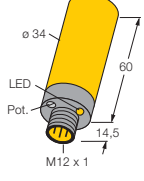

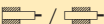

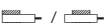

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	S12 	-	3,  / 	 , PNP	10...30 VDC	200 mA, 
		-	3,  / 	 , NPN	10...30 VDC	200 mA, 
		-	3,  / 	 , PNP	10...30 VDC	200 mA, 
	S18 	-	5,  / 	 , PNP	10...65 VDC	200 mA, 
		-	5,  / 	 , NPN	10...65 VDC	200 mA, 
		-	5,  / 	 , PNP	10...65 VDC	200 mA, 
	S18 	-	5,  / 	 , PNP	10...65 VDC	200 mA, 
		-	5,  / 	 , NPN	10...65 VDC	200 mA, 
		-	5,  / 	 , PNP	10...65 VDC	200 mA, 
	S30 	-	10,  / 	 , PNP	10...65 VDC	200 mA, 
		-	10,  / 	 , NPN	10...65 VDC	200 mA, 




Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion ()	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials () aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED 
BC3-S12-AP6X	2601200	S001	0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC3-S12-AN6X	2601300	S004	0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC3-S12-RP6X	2601202	S054	0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC5-S18-AP4X	25030	S001	0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC5-S18-AN4X	25031	S004	0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC5-S18-RP4X	2503020	S054	0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC5-S18-AP4X-H1141/S250	2503602	S002	0.1	-25...+70	IP67	PA	PA	-	-	•
BC5-S18-AN4X-H1141/S250	2503108	S005	0.1	-25...+70	IP67	PA	PA	-	-	•
BC5-S18-RP4X-H1141/S250	2601209	S056	0.1	-25...+70	IP67	PA	PA	-	-	•
BC10-S30-VP4X	2506110	S007	0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC10-S30-VN4X	2506000	S010	0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm zylindrische Bauformen (Kunststoff)
Capacitive Sensors – Standard cylindrical housings (plastic)
Détecteurs capacitifs – Programmes standard formats cylindriques (plastiques)

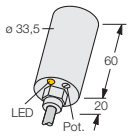





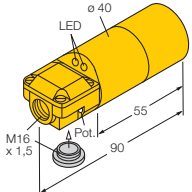













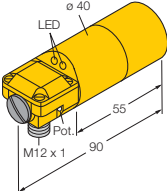




Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]
	S30 	-	10, 	10...65 VDC	200 mA, 
		-	10, 	10...65 VDC	200 mA, 
	P30SR 	-	10, 	10...65 VDC	200 mA, 
		-	10, 	10...65 VDC	200 mA, 
	K34 	-	15, 	10...65 VDC	200 mA, 
		-	15, 	10...65 VDC	200 mA, 
	K34 	-	15, 	10...65 VDC	200 mA, 
		-	15, 	10...65 VDC	200 mA, 




Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion ()	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials () aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED 
BC10-S30-VP4X-H1141	2506100	S008	0.1	-25...+70	IP67	PA	PA	–	–	•
BC10-S30-VN4X-H1141	2506010	S011	0.1	-25...+70	IP67	PA	PA	–	–	•
BC10-P30SR-VP4X2	25050	S009	0.1	-25...+70	IP67	ABS	ABS	–	•	•
BC10-P30SR-VN4X2	25051	S012	0.1	-25...+70	IP67	ABS	ABS	–	•	•
BC15-K34-VP4X	2502124	S007	0.1	-25...+70	IP67	PBT	PBT	PVC 2 m	–	•
BC15-K34-VN4X	2502127	S010	0.1	-25...+70	IP67	PBT	PBT	PVC 2 m	–	•
BC15-K34-AP4X-H1141	2502126	S002	0.1	-25...+70	IP67	PBT	PBT	–	–	•
BC15-K34-AN4X-H1141	2502125	S005	0.1	-25...+70	IP67	PBT	PBT	–	–	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm zylindrische Bauformen (Kunststoff)
Capacitive Sensors – Standard cylindrical housings (plastic)
Détecteurs capacitifs – Programme standard formats cylindriques (plastiques)

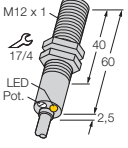













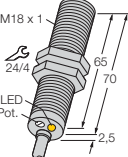













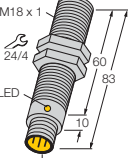













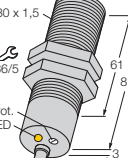









Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	KT34 	-	20, 	 , PNP	10...65 VDC	200 mA, (K)
		-	20, 	 , NPN	10...65 VDC	200 mA, (K)
	K40SR 	-	20,  / 	 , PNP	10...65 VDC	200 mA, (K)
		-	20,  / 	 , NPN	10...65 VDC	200 mA, (K)
		-	20,  / 	 , PNP	10...65 VDC	200 mA, (K)
		-	20,  / 	 , NPN	10...65 VDC	200 mA, (K)
	K40SR 	-	20,  / 	 , NPN	10...65 VDC	200 mA, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion ()	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials () aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED 
NC20-KT34-VP4X2	2550300	S007	0.2	-25...+70	IP67	PVDF	PVDF	PVC 2 m	-	•
NC20-KT34-VN4X2	2550100	S010	0.2	-25...+70	IP67	PVDF	PVDF	PVC 2 m	-	•
BC20-K40SR-VP4X2	25100	S009	0.1	-25...+70	IP67	ABS	ABS	-	•	•
BC20-K40SR-VN4X2	25101	S012	0.1	-25...+70	IP67	ABS	ABS	-	•	•
BC20-K40SR-VP4X2	25100	S009	0.1	-25...+70	IP67	ABS	ABS	-	•	•
BC20-K40SR-VN4X2	25101	S012	0.1	-25...+70	IP67	ABS	ABS	-	•	•
BC20-K40SR-VN4X2-H1141	2510104	S011	0.1	-25...+70	IP67	ABS	ABS	-	•	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm zylindrische Bauformen (Metall)
Capacitive Sensors – Standard cylindrical housings (metal)
Détecteurs capacitifs – Programme standard formats cylindriques (métalliques)

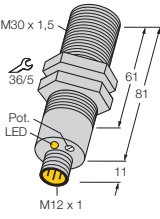








Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	M12 	-	3,  / 	 , PNP	10...30 VDC	200 mA, 
		-	3,  / 	 , NPN	10...30 VDC	200 mA, 
		-	3,  / 	 , PNP	10...30 VDC	200 mA, 
	M18 	-	5,  / 	 , PNP	10...65 VDC	200 mA, 
		-	5,  / 	 , NPN	10...65 VDC	200 mA, 
		-	5,  / 	 , PNP	10...65 VDC	200 mA, 
	M18 	-	5,  / 	 , PNP	10...65 VDC	200 mA, 
		-	5,  / 	 , NPN	10...65 VDC	200 mA, 
		-	5,  / 	 , PNP	10...65 VDC	200 mA, 
	M30 	-	10,  / 	 , PNP	10...65 VDC	200 mA, 
		-	10,  / 	 , NPN	10...65 VDC	200 mA, 

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED
BC3-M12-AP6X	2601000	S001	0.1	-25...+70	IP67	CuZn-Cr	ABS	PVC 2 m	-	•
BC3-M12-AN6X	2601100	S004	0.1	-25...+70	IP67	CuZn-Cr	ABS	PVC 2 m	-	•
BC3-M12-RP6X	2601103	S054	0.1	-25...+70	IP67	CuZn-Cr	ABS	PVC 2 m	-	•
BC5-M18-AP4X	2504001	S001	0.1	-25...+70	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BC5-M18-AN4X	2504002	S004	0.1	-25...+70	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BC5-M18-RP4X	2504026	S001	0.1	-25...+70	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BC5-M18-AP4X-H1141/S250	2504024	S002	0.1	-25...+70	IP67	CuZn-Cr	PBT	-	-	•
BC5-M18-AN4X-H1141/S250	2504025	S005	0.1	-25...+70	IP67	CuZn-Cr	PBT	-	-	•
BC5-M18-RP4X-H1141/S250	2504023	S056	0.1	-25...+70	IP67	CuZn-Cr	PBT	-	-	•
BC10-M30-VP4X	25020	S007	0.1	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BC10-M30-VN4X	25021	S010	0.1	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm zylindrische Bauformen (Metall)
Capacitive Sensors – Standard cylindrical housings (metal)
Détecteurs capacitifs – Programme standard formats cylindriques (métalliques)

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]
	M30	10,  / 	 , PNP	10...65 VDC	200 mA, 
	-	10,  / 	 , NPN	10...65 VDC	200 mA, 

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (^{EN} 806)	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (^{EN} 852) aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED
BC10-M30-VP4X-H1141	2502010	S008	0.1	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BC10-M30-VN4X-H1141	2502120	S011	0.1	-25...+70	IP67	CuZn-Cr	PA	-	-	•

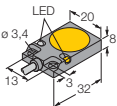










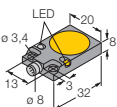










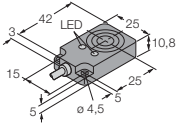










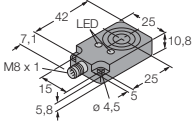










Sensortechnik/Sensors/
Détecteurs




✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm Quaderbauformen

Capacitive Sensors – Standard rectangular housings

Détecteurs capacitifs – Programme standard formats rectangulaires

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	Q08 	-	5,  / 	 , PNP	10...30 VDC	200 mA, (K)
	-	-	5,  / 	 , NPN	10...30 VDC	200 mA, (K)
	-	-	5,  / 	 , PNP	10...30 VDC	200 mA, (K)
	Q08 	-	5,  / 	 , PNP	10...30 VDC	200 mA, (K)
	-	-	5,  / 	 , NPN	10...30 VDC	200 mA, (K)
	-	-	5,  / 	 , PNP	10...30 VDC	200 mA, (K)
	Q10 	-	8,  / 	 , PNP	10...30 VDC	200 mA, (K)
	-	-	8,  / 	 , NPN	10...30 VDC	200 mA, (K)
	-	-	8,  / 	 , PNP	10...30 VDC	200 mA, (K)
	Q10 	-	8,  / 	 , PNP	10...30 VDC	200 mA, (K)
	-	-	8,  / 	 , NPN	10...30 VDC	200 mA, (K)
	-	-	8,  / 	 , PNP	10...30 VDC	200 mA, (K)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion ()	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials () aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED 
BC5-Q08-AP6X2/S250	26200	S001	0.1	-25...+70	IP67	GD-Zn	PA	PVC 2 m	•	•
BC5-Q08-AN6X2/S250	26201	S004	0.1	-25...+70	IP67	GD-Zn	PA	PVC 2 m	•	•
BC5-Q08-RP6X2/S250	2530108	S054	0.1	-25...+70	IP67	GD-Zn	PA	PVC 2 m	•	•
BC5-Q08-AP6X2-V1131/S250	26210	S002	0.1	-25...+70	IP67	GD-Zn	PA	-	•	•
BC5-Q08-AN6X2-V1131/S250	26211	S005	0.1	-25...+70	IP67	GD-Zn	PA	-	•	•
BC5-Q08-RP6X2-V1131/S250	2620152	S175	0.1	-25...+70	IP67	GD-Zn	PA	-	•	•
BC8-Q10-AP6X2/S250	2621200	S001	0.1	-25...+70	IP67	PBT	PBT	PVC 2 m	•	•
BC8-Q10-AN6X2/S250	2621203	S004	0.1	-25...+70	IP67	PBT	PBT	PVC 2 m	•	•
BC8-Q10-RP6X2/S250	2621205	S054	0.1	-25...+70	IP67	PBT	PBT	PVC 2 m	•	•
BC8-Q10-AP6X2-V1131/S250	2621201	S002	0.1	-25...+70	IP67	PBT	PBT	-	•	•
BC8-Q10-AN6X2-V1131/S250	2621202	S005	0.1	-25...+70	IP67	PBT	PBT	-	•	•
BC8-Q10-RP6X2-V1131/S250	2621204	S056	0.1	-25...+70	IP67	PBT	PBT	-	•	•

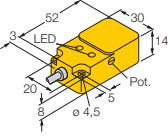

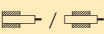

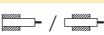

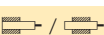

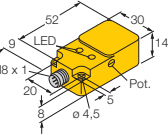

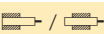

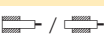

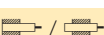

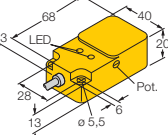

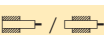



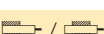

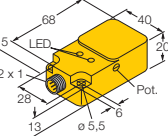

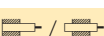

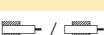

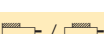

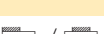

Sensortechnik/Sensors/
Détecteurs




✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm Quaderbauformen

Capacitive Sensors – Standard rectangular housings

Détecteurs capacitifs – Programme standard formats rectangulaires

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	Q14 	-	10, 	 , PNP	10...65 VDC	200 mA, (K)
	-	10, 	 , PNP	10...65 VDC	200 mA, (K)	
	-	10, 	 , NPN	10...65 VDC	200 mA, (K)	
	Q14 	-	10, 	 , PNP	10...65 VDC	200 mA, (K)
	-	10, 	 , PNP	10...65 VDC	200 mA, (K)	
	-	10, 	 , NPN	10...65 VDC	200 mA, (K)	
	Q20 	-	20, 	 , PNP	10...65 VDC	200 mA, (K)
	-	20, 	 , PNP	10...65 VDC	200 mA, (K)	
	-	20, 	 , NPN	10...65 VDC	200 mA, (K)	
	Q20 	-	20, 	 , PNP	10...65 VDC	200 mA, (K)
	-	20, 	 , NPN	10...65 VDC	200 mA, (K)	
	-	20, 	 , PNP	10...65 VDC	200 mA, (K)	
	-	20, 	 , PNP	10...65 VDC	200 mA, (K)	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion ()	Schaltfrequenz Switching frequency Fréquence de commut. [kHz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials () aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED 
BC10-Q14-AP4X2	2530001	S001	0.1	-25...+70	IP67	PBT	PBT	PVC 2 m	•	•
BC10-Q14-RP4X2	2530014	S054	0.1	-25...+70	IP67	PBT	PBT	PVC 2 m	•	•
BC10-Q14-AN4X2	2530010	S004	0.1	-25...+70	IP67	PBT	PBT	PVC 2 m	•	•
BC10-Q14-AP4X2-V1131	2530002	S002	0.1	-25...+70	IP67	PBT	PBT	-	•	•
BC20-Q20-RP4X2-V1131	2501007	S175	0.1	-25...+70	IP67	PBT	PBT	-	•	•
BC10-Q14-AN4X2-V1131	2530011	S005	0.1	-25...+70	IP67	PBT	PBT	-	•	•
BC20-Q20-AP4X2	2530100	S001	0.1	-25...+70	IP67	PBT	PBT	PUR 2 m	•	•
BC20-Q20-RP4X2	2530106	S054	0.1	-25...+70	IP67	PBT	PBT	PUR 2 m	•	•
BC20-Q20-AN4X2	2530110	S004	0.1	-25...+70	IP67	PBT	PBT	PUR 2 m	•	•
BC20-Q20-AP4X2-H1141	2530101	S002	0.1	-25...+70	IP67	PBT	PBT	-	•	•
BC20-Q20-AN4X2-H1141	2530111	S005	0.1	-25...+70	IP67	PBT	PBT	-	•	•
BC20-Q20-RP4X2-H1143	2530107	S056	0.1	-25...+70	IP67	PBT	PBT	-	•	•
BC20-Q20-RP4X2-V1131	2501007	S056	0.1	-25...+70	IP67	PBT	PBT	-	•	•

Sensortechnik/Sensors/
Détecteurs




✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm Quaderbauformen

Capacitive Sensors – Standard rectangular housings

Détecteurs capacitifs – Programme standard formats rectangulaires

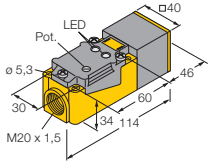

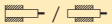







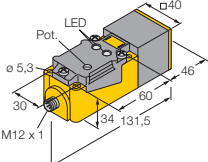

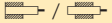



Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]
	QF5.5 	-	10,	, PNP	10...30 VDC 200 mA,
	-	10,	, NPN	10...30 VDC 200 mA,	
	QF5.5 	-	5,	, PNP	10...30 VDC 200 mA,
	-	10,	, PNP	10...30 VDC 200 mA,	
	CP80 	-	50,	, PNP	10...65 VDC 200 mA,
	-	50,	, NPN	10...65 VDC 200 mA,	
	CP80 	-	50,	, PNP	10...65 VDC 200 mA,

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion ()	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials () aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED 
BC10-QF5,5-AP6X2	2620117	S001	0.1	-25...+70	IP67	PP	PP	PUR 2 m	•	•
BC10-QF5,5-AN6X2	2620121	S004	0.1	-25...+70	IP67	PP	PP	PUR 2 m	•	•
BC5-QF5,5-AP6X2/S250	2620116	S001	0.1	-25...+70	IP67	PP	PP	PUR 2 m	•	•
BC10-QF5,5-AP6X2/S250	2620115	S001	0.1	-25...+70	IP67	PP	PP	PUR 2 m	•	•
NC50-CP80-VP4X2	2580202	S009	0.2	-25...+70	IP67	PBT	PBT	–	•	•
NC50-CP80-VN4X2	2580102	S012	0.2	-25...+70	IP67	PBT	PBT	–	•	•
NC50-CP80-VP4X2-H1141	2580400	S008	0.2	-25...+70	IP67	PBT	PBT	–	•	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm Quaderbauformen
Capacitive Sensors – Standard rectangular housings
Détecteurs capacitifs – Programme standard formats rectangulaires

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	CP40 	-	30,  / 	 , PNP	10...65 VDC	200 mA, 
		-	30,  / 	 , NPN	10...65 VDC	200 mA, 
	CP40 	-	30,  / 	 , PNP	10...65 VDC	200 mA, 




Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED
BC20-CP40-VP4X2	25160	S009	0.1	-25...+70	IP67	PBT	PBT	-	•	•
BC20-CP40-VN4X2	25161	S012	0.1	-25...+70	IP67	PBT	PBT	-	•	•
BC20-CP40-VP4X2-H1141	2516102	S008	0.1	-25...+70	IP67	PBT	PBT	-	•	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm BCF
Capacitive Sensors – Standard BCF
Détecteurs capacitifs – Programme standard BCF

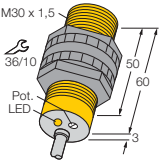

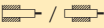



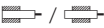



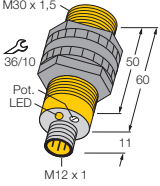

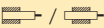



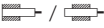



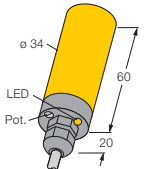

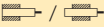
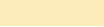

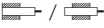


Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	S18 	–	5, /	, PNP	10...65 VDC	200 mA,
		–	5, /	, NPN	10...65 VDC	200 mA,
		–	5, /	, NPN	10...65 VDC	200 mA,
		–	5, /	, PNP	10...65 VDC	200 mA,
		–	5, /	, PNP	10...65 VDC	200 mA,
	S18 	–	5, /	, PNP	10...65 VDC	200 mA,
		–	5, /	, NPN	10...65 VDC	200 mA,
	Q20L60 	–	10, /	, PNP	10...65 VDC	200 mA,
	Q20L60 	–	10, /	, PNP	10...65 VDC	200 mA,




Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion ()	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials () aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED 
BCF5-S18-AP4X	2503011	S001	0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BCF5-S18-AN4X	2503012	S004	0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BCF5-S18-RN4X	2503008		0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BCF5-S18-RP4X/S90	2503006	S054	0.1	-25...+70	IP67	PA	PA	PUR 2 m	-	•
BCF5-S18-AP4X/S90	2503014	S001	0.1	-25...+70	IP67	PA	PA	PUR 2 m	-	•
BCF5-S18-AP4X-H1141/S250	2503010	S002	0.1	-25...+70	IP67	PA	PA	-	-	•
BCF5-S18-AN4X-H1141/S250	2503016	S005	0.1	-25...+70	IP67	PA	PA	-	-	•
BCF10-Q20L60-AP4X	2504028	S001	0.1	-25...+70	IP67	PBT-GF20	PBT	PVC 2 m	-	•
BCF10-Q20L60-AP4X-H1141	2504027	S002	0.1	-25...+70	IP67	PBT-GF20	PBT	-	-	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm BCF
Capacitive Sensors – Standard BCF
Détecteurs capacitifs – Programme standard BCF

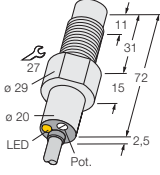




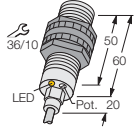











Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	S30 	-	10,  / 	 , PNP	10...65 VDC	200 mA, 
		-	10,  / 	 , NPN	10...65 VDC	200 mA, 
	S30 	-	10,  / 	 , PNP	10...65 VDC	200 mA, 
		-	10,  / 	 , NPN	10...65 VDC	200 mA, 
	K34 	-	15,  / 		20...250 VAC	500 AC
		-	15,  / 		20...250 VAC	500 AC

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion ()	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials () aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED 
BCF10-S30-VP4X	2506111	S007	0.1	-25...+70	IP67	PA	PA	PVC 2 m	•	•
BCF10-S30-VN4X	2506011	S010	0.1	-25...+70	IP67	PA	PA	PVC 2 m	•	•
BCF10-S30-VP4X-H1141	2506117	S008	0.1	-25...+70	IP67	PA	PA	-	-	•
BCF10-S30-VN4X-H1141	2506016	S012	0.1	-25...+70	IP67	PA	PA	-	-	•
BCF15-K34-AZ3X	2502136	S092	0.02	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•
BCF15-K34-RZ3X	2502135	S094	0.02	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Chemiefeste Sensoren
Capacitive Sensors – Chemically resistant sensors
Détecteurs capacitifs – Détecteurs à résistance chimique

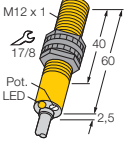






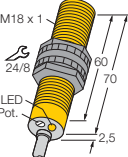




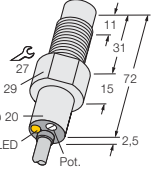











Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	S185	7.5,  / 	 , PNP	10...65 VDC	200 mA, 	
	PT30 	10,  / 	 , PNP	10...65 VDC	200 mA, 	
		10,  / 	 , NPN	10...65 VDC	200 mA, 	
		10,  / 	NAMUR	nom. 8.2 VDC	-	




Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (^{EN} 806)	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (^{EN} 852) aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED ⏏
BC5-S185-AP4X	25035	S001	0.1	-25...+70	IP67	PVDF	PVDF	PVC 2 m	-	•
BC10-PT30-VP4X2	2507010	S007	0.1	-25...+70	IP67	PVDF	PVDF	PVC 2 m	-	•
BC10-PT30-VN4X2	2507020	S010	0.1	-25...+70	IP67	PVDF	PVDF	PVC 2 m	-	•
BC10-PT30-Y0X	2020000	S025	0.1	-25...+70	IP67	PVDF	PVDF	PVC 2 m	-	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Sensoren für höhere Temperaturbereiche
Capacitive Sensors – Sensors for high temperature ranges
Détecteurs capacitifs – Détecteurs pour des plages de température élevées

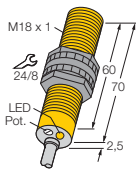
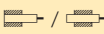


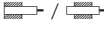


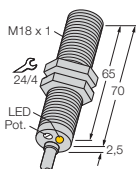
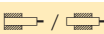


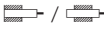


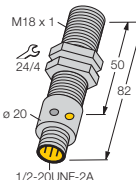
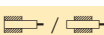


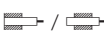


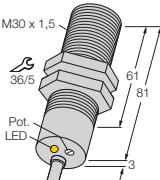
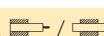


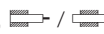


Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]
 <p>S12</p> 		3,  / 	 , PNP	10...30 VDC	200 mA, 
 <p>S18</p> 		5,  / 	NAMUR	nom. 8.2 VDC	–
 <p>S185</p> 	 	7.5,  /  7.5,  / 	 , PNP  , NPN	10...65 VDC 10...65 VDC	200 mA,  200 mA, 

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion ()	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials () aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED 
BC3-S12-AP6X/S100	2601201	S001	0.1	-25...+100	IP67	PA	PA	PUR 2 m	-	•
BC5-S18-Y0X/S100	2006021	S025	0.1	-25...+100	IP67	PA	PA	PUR 2 m	-	•
BC5-S185-AP4X/S100	2503502	S001	0.1	-25...+100	IP67	PVDF	PVDF	PUR 2 m	-	•
BC5-S185-AN4X/S100	2503551	S004	0.1	-25...+100	IP67	PVDF	PVDF	PUR 2 m	-	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm AC 2-Draht-Sensoren
Capacitive Sensors – Standard AC 2-wire sensors
Détecteurs capacitifs – Programme standard détecteurs 2 fils AC

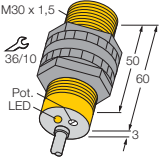













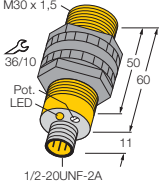




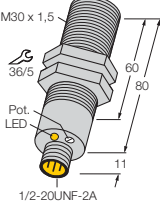







Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]
 <p>S18</p>	-	5,  / 		20...250 VAC	500 AC
	-	5,  / 		20...250 VAC	500 AC
 <p>M18</p>	-	5,  / 		20...250 VAC	500 AC
	-	5,  / 		20...250 VAC	500 AC
 <p>M18</p>	-	5,  / 		20...250 VAC	500 AC
	-	5,  / 		20...250 VAC	500 AC
 <p>M30</p>	-	10,  / 		20...250 VAC	500 AC
	-	10,  / 		20...250 VAC	500 AC




Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED
BC5-S18-AZ3X	2305500	S092	0.02	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC5-S18-RZ3X	2305400	S094	0.02	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC5-M18-AZ3X	2305000	S092	0.02	-25...+70	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BC5-M18-RZ3X	2305100	S094	0.02	-25...+70	IP67	CuZn-Cr	PBT	PVC 2 m	-	•
BC5-M18-AZ3X-B3331/S250	2305001	S092	0.02	-25...+70	IP67	CuZn-Cr	PBT	-	-	-
BC5-M18-RZ3X-B3331/S250	2305101	S094	0.02	-25...+70	IP67	CuZn-Cr	PBT	-	-	-
BC10-M30-AZ3X	23100		0.02	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•
BC10-M30-RZ3X	23098		0.02	-25...+70	IP67	CuZn-Cr	PA	PVC 2 m	-	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm AC 2-Draht-Sensoren
Capacitive Sensors – Standard AC 2-wire sensors
Détecteurs capacitifs – Programme standard détecteurs 2 fils AC

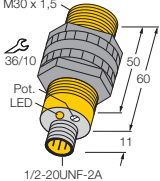










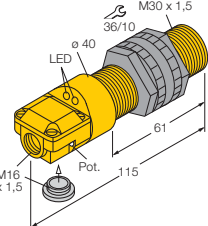



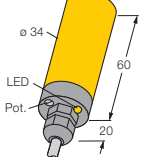













Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]
	S30 	-	10,  / 		20...250 VAC 500 AC
	-	-	10,  / 		20...250 VAC 500 AC
	-	-	10,  / 		20...250 VAC 500 AC
	-	-	10,  / 		20...250 VAC 500 AC
	S30 	-	10,  / 		20...250 VAC 500 AC
	M30 	-	10,  / 		20...250 VAC 500 AC
		-	10,  / 		20...250 VAC 500 AC




Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion ()	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials () aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED 
BC10-S30-AZ3X	2310700	S092	0.02	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC10-S30-RZ3X	2310800	S094	0.02	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BCF10-S30-AZ3X	2506015	S092	0.02	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BCF10-S30-RZ3X	2506013	S094	0.02	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC10-S30-AZ3X-B3131	2310710	S152	0.02	-25...+70	IP67	PA	PA	-	-	•
BC10-M30-AZ3X-B3131	2310030	S152	0.02	-25...+70	IP67	CuZn-Cr	PA	-	-	•
BC10-M30-RZ3X-B3131	2310100	S094	0.02	-25...+70	IP67	CuZn-Cr	PA	-	-	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm AC 2-Draht-Sensoren
Capacitive Sensors – Standard AC 2-wire sensors
Détecteurs capacitifs – Programme standard détecteurs 2 fils AC

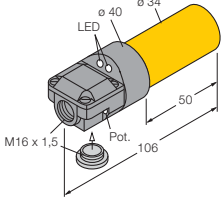



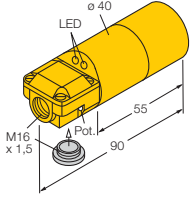



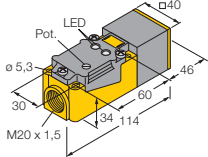



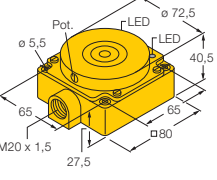


Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
	S30 	-	10,  / 		20...250 VAC	500 AC
		-	10,  / 		20...250 VAC	500 AC
		-	10,  / 		20...250 VAC	500 AC
	P30SR 	-	15,  / 	program.	20...250 VAC	500 AC
	K34 	-	15,  / 		20...250 VAC	500 AC
		-	15,  / 		20...250 VAC	500 AC
		-	15,  / 		20...250 VAC	500 AC
		-	15,  / 		20...250 VAC	500 AC

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion ()	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials () aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED 
BCF10-S30-AZ3X-B3131	2506012	S152	0.02	-25...+70	IP67	PA	PA	-	-	•
BCF10-S30-RZ3X-B3131	2506014	S092	0.02	-25...+70	IP67	PA	PA	-	-	•
BC10-S30-RZ3X-B3131	2310810	S094	0.02	-25...+70	IP67	PA	PA	-	-	-
BC10-P30SR-FZ3X2	23104	S016	0.02	-25...+70	IP67	ABS	ABS	-	•	•
BC15-K34-AZ3X	2310008	S092	0.02	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•
BC15-K34-RZ3X	2310110	S094	0.02	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•
BCF15-K34-RZ3X	2502135	S094	0.02	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•
BCF15-K34-AZ3X	2502136	S092	0.02	-25...+70	IP67	PBT	PBT	PVC 2 m	-	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm AC 2-Draht-Sensoren
Capacitive Sensors – Standard AC 2-wire sensors
Détecteurs capacitifs – Programme standard détecteurs 2 fils AC

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
 <p>Technical drawing of the K34 sensor. It shows a cylindrical yellow sensor with a grey mounting bracket. Dimensions include a diameter of 40 mm, a length of 50 mm, and a mounting hole diameter of 34 mm. The mounting bracket has a height of 106 mm and a diameter of 16 mm (M16 x 1.5). Labels include LED, Pot., and R.</p>	K34 	–	15,  / 	program.	20...250 VAC	500 AC
 <p>Technical drawing of the K40SR sensor. It shows a cylindrical yellow sensor with a grey mounting bracket. Dimensions include a diameter of 40 mm, a length of 55 mm, and a mounting hole diameter of 34 mm. The mounting bracket has a height of 90 mm and a diameter of 16 mm (M16 x 1.5). Labels include LED, Pot., and R.</p>	K40SR 	–	20,  / 	program.	20...250 VAC	500 AC
 <p>Technical drawing of the CP40 sensor. It shows a rectangular yellow sensor with a grey mounting bracket. Dimensions include a length of 114 mm, a width of 46 mm, and a mounting hole diameter of 16 mm (M20 x 1.5). The sensor has a diameter of 40 mm. Labels include LED, Pot., and R.</p>	CP40 	–	20,  / 	program.	20...250 VAC	500 AC
 <p>Technical drawing of the CP80 sensor. It shows a square yellow sensor with a grey mounting bracket. Dimensions include a side length of 80 mm, a mounting hole diameter of 16 mm (M20 x 1.5), and a height of 40.5 mm. The sensor has a diameter of 72.5 mm. Labels include LED, Pot., and R.</p>	CP80 	–	50, 	program.	20...250 VAC	500 AC

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (IEC 852) aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED
BC15-K34SR-FZ3X2	2310009	S016	0.02	-25...+70	IP67	PBT	PBT	-	•	•
BC20-K40SR-FZ3X2	23103	S016	0.02	-25...+70	IP67	ABS	ABS	-	•	•
BC20-CP40-FZ3X2	23105	S016	0.02	-25...+70	IP67	PBT	PBT	-	•	•
NC50-CP80-FZ3X2	2310600	S016	0.02	-25...+70	IP67	PBT	PBT	-	•	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Standardprogramm NAMUR
Capacitive Sensors – Standard NAMUR
Détecteurs capacitifs – Programme standard NAMUR

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S _n Rated operating distance S _n Distance de commutation S _n [mm]	Ausgang Output Sortie	Betriebsspannung U _B Operational voltage U _B Tension de service U _B [V]	Betriebsstrom I _e Operational current I _e Courant de service I _e [mA]	
	QF5.5 	Ex II 2 G, SIL2 	5, / 	NAMUR	nom. 8.2 VDC	–
	S18 	Ex II 1 G, Ex II 1 D, SIL2 	5, / 5, / 	NAMUR	nom. 8.2 VDC	–
	S30 	Ex II 1 G, Ex II 1 D, SIL2 	10, / 	NAMUR	nom. 8.2 VDC	–
	PT30 	– 	10, / 	NAMUR	nom. 8.2 VDC	–

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (^{EN} 806)	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Gehäuse Housing Boîtier	Materials (^{EN} 852) aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED
BC5-QF5,5-Y1X/S250	2030000	S025	0.1	-25...+70	IP67	PP	PP	PVC 2 m	-	•
BC5-S18-Y1X	20060	S025	0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC5-S185-Y0X/S90 4M	2003522	S025	0.1	-25...+70	IP67	PA	PA	PUR 4 m	-	•
BC5-S18-Y1X/S100	2006021	S025	-	-25...+100	IP67	PA	PA	PUR 2 m	-	•
BC10-S30-Y1X	20100	S025	0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC10-PT30-Y0X	2020000	S025	0.1	-25...+70	IP67	PVDF	PVDF	PVC 2 m	-	•

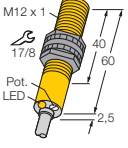


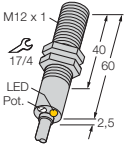


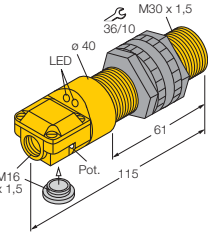


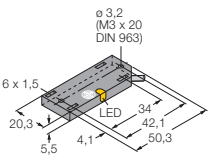

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Sensoren für den Ex-Bereich

Capacitive Sensors – Sensors for the Ex area

Détecteurs capacitifs – Détecteurs pour la zone Ex

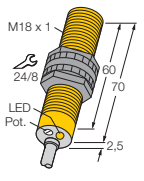




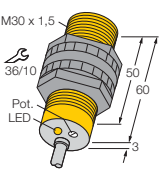


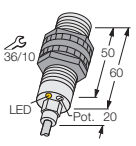


Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S_n Rated operating distance S_n Distance de commutation S_n [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]	Betriebsstrom I_e Operational current I_e Courant de service I_e [mA]	
 <p>S12</p>	ⓧ II 3 G ⓧ II 3 D	3, 	 , PNP	10...30 VDC	200 mA, Ⓚ	
 <p>M12</p>	ⓧ II 3 G ⓧ II 3 D	3, 	 , PNP	10...30 VDC	200 mA, Ⓚ	
 <p>P30SR</p>	ⓧ II 3 G ⓧ II 3 D	10, 	 , PNP	10...65 VDC	200 mA, Ⓚ	
 <p>QF5.5</p>	ⓧ II 2 G, SIL2	5, 	NAMUR	nom. 8.2 VDC	-	




Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials (IEC 852) aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED
BC3-S12-RP6X/S90/3GD	2601204	S054	0.1	-25...+70	IP67	PA	PA	PUR 2 m	-	•
BC3-M12-AP6X/S90/3GD	2601003	S001	0.1	-25...+70	IP67	CuZn-Cr	ABS	PUR 2 m	-	•
BC10-P30SR-VP4X2/3GD	2505006	S009	0.1	-25...+70	IP67	ABS	ABS	-	•	•
BC5-QF5,5-Y1X/S250	2030000	S025	0.1	-25...+70	IP67	PP	PP	PVC 2 m	-	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Kapazitive Sensoren – Sensoren für den Ex-Bereich
Capacitive Sensors – Sensors for the Ex area
Détecteurs capacitifs – Détecteurs pour la zone Ex

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Schaltabstand S _n Rated operating distance S _n Distance de commutation S _n [mm]	Ausgang Output Sortie	Betriebsspannung U _B Operational voltage U _B Tension de service U _B [V]	Betriebsstrom I _e Operational current I _e Courant de service I _e [mA]
	S18  Ex II 1 G, Ex II 1 D, SIL2	5, 	NAMUR	nom. 8.2 VDC	–
		5, 	NAMUR	nom. 8.2 VDC	200 mA, (K)
		5, 	NAMUR	nom. 8.2 VDC	–
	S30  Ex II 1 G, Ex II 1 D, SIL2	10, 	NAMUR	nom. 8.2 VDC	–
	PT30  –	10, 	NAMUR	nom. 8.2 VDC	–

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion ()	Schalt- frequenz Switching frequency Fréquence de commut. [kHz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe Housing Boîtier	Materials () aktive Fläche Active face Face active	Matériaux Kabel Cable Câble	LED U _B	LED 
BC5-S18-Y1X	20060	S025	0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC5-S185-Y0X/S90 4M	2003522	S025	0.1	-25...+70	IP67	PA	PA	PUR 4 m	-	•
BC5-S18-Y1X/S100	2006021	S025	0.1	-25...+100	IP67	PA	PA	PUR 2 m	-	•
BC10-S30-Y1X	20100	S025	0.1	-25...+70	IP67	PA	PA	PVC 2 m	-	•
BC10-PT30-Y0X	2020000	S025	0.1	-25...+70	IP67	PVDF	PVDF	PVC 2 m	-	•

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Füllstandssensoren – *levelprox*®

Funktionsprinzip

levelprox®-Sensoren erfassen Flüssigkeiten durch Behälterwände hindurch. Dazu wird der Sensor einfach an der Außenwand fixiert und hat somit keinerlei Kontakt mit dem zu erfassenden Medium.

Ob an Behältern aus Stahl, Edelstahl oder Glas: Die Füllstandserfassung mit *levelprox*® funktioniert bei aggressiven Flüssigkeiten, an Druckbehältern oder im Ex-Bereich.

Merkmale

- Erfassung von Flüssigkeiten durch die Behälterwand
- Kein Medienkontakt, daher besonders hygienisch
- Einfache, auch nachträglich korrigierbare Montage mit Schweiß-, Klebe- oder Spannbandstutzen
- Prozessorgesteuertes Einlernen von Füllstand und Umgebungsbedingungen
- Zwei Betriebsarten: Nachhall- und Echoverfahren
- Unempfindlich bis 95 °C Medientemperatur (passiv für CIP)
- Einsatz im explosionsgefährdeten Bereich gemäß ATEX-Klassifizierung (Zone 2 und Zone 22, Bauform T50)
- Alarmanzeige bei Störungen (Bauform T50)

Anwendungsgebiete

- Lebensmittelindustrie
- Hydraulikindustrie
- Maschinen- und Anlagenbau
- Pharmaindustrie
- Prozessindustrie

Betriebsarten

Im Nachhallverfahren wertet der Sensor ausschließlich die Reflexion an der ersten Innenwand aus. Gasblasen oder Schwebstoffe in der Flüssigkeit und Einbauten wie z. B. Rührwerke stören den Betrieb nicht. Im Leerzustand sollte die Behälterinnenwand aber möglichst frei von Medienresten sein.

Sind Medienreste nicht zu vermeiden, kann das Echoverfahren zum Einsatz kommen. Hier wird das Echo der gegenüberliegenden Innenwand ausgewertet. Da der Schall den Behälter zweimal durchqueren muss, sollte die Flüssigkeit möglichst homogen und sauber sein. Einbauten sind nur dann möglich, wenn sie als Reflexionsfläche dienen können.

Die *levelprox*®-Sensoren lassen sich in beiden Betriebsarten betreiben. So ist in jeder Applikation die optimale Sensorfunktion gewährleistet.

Non-invasive level sensor – *levelprox*®

Function principle

levelprox® sensors detect liquids through the walls of containers or tanks. The sensor is simply attached to the exterior wall and thus has no contact with the medium being detected.

Even if the container is made of steel, stainless steel or glass: Level control with *levelprox*® functions with aggressive liquids, on pressurized containers or in explosion-hazardous areas.

Features

- Detection of liquids through the container wall
- Non-invasive, no contact with medium thus especially hygienic
- Simple mounting and subsequent alignment with welding stub, adhesive stud or retainer
- Processor-controlled teach-in of medium level and ambient conditions
- Two operating modes: Reverberation and echo
- Insensitive to medium temperatures up to 95 °C (passive for CIP)
- Applicable in explosion-hazardous areas in compliance to ATEX classification (zone 2 and zone 22, housing T50)
- Alarm display (housing T50)

Areas of application

- Food industry
- Hydraulic industry
- Mechanical and system engineering
- Pharmaceutical industry
- Process industry



Détecteurs de niveau sans intrusion – *levelprox*®

Operating modes

In the reverberation mode, the reflections of the inner wall adjacent to the sensor are evaluated. Gas bubbles or particles in the liquid and installations such as stirring devices hardly affect the sensor; yet if the container is empty, no residues should adhere to the container wall.

Should this not be avoidable, we recommend the echo mode. In this mode, the echo of the opposing inner wall is evaluated. Since the sound has to traverse the container twice, the liquid should preferably be homogeneous and free of contamination. Built-in fixtures are admissible, provided they act as a reflective surface.

Our *levelprox*® sensors may be operated in both modes, thus ensuring optimum and reliable sensor function in all applications.

Principe de fonctionnement

Les détecteurs *levelprox*® permettent de détecter des liquides à travers les parois des cuves. Le détecteur est fixé à la paroi extérieure et n'entre pas en contact avec le milieu à détecter.

Qu'il s'agisse de cuves en acier, acier inoxydable ou en verre: la détection de niveaux par *levelprox*® fonctionne en cas de liquides agressifs, à des cuves sous pression ou dans la zone Ex.

Caractéristiques

- Détection de liquides à travers la paroi de la cuve
- Pas de contact avec le milieu, donc très hygiénique
- Montage simple par raccord par soudu-re, par collage ou par collier de serrage, même à corriger ultérieurement
- Apprentissage du niveau et des conditions d'environnement par processeur
- Deux modes: mode réverbération et mode par échos
- Insensible jusqu'à une température de milieu de 95 °C (passif pour CIP)
- Utilisation en zone Ex suivant classification ATEX (zone 2 et zone 22, format T50)
- Alarme en cas de perturbations (format T50)

Champs d'application

- Industrie agro-alimentaire
- Industrie hydraulique
- Construction de machines et d'installations
- Pharmacie
- Industrie de process

Modes de fonctionnement

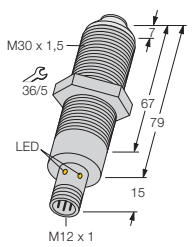
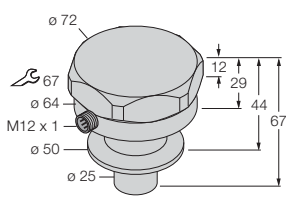
En cas de la méthode de réverbération, seulement la réflexion de la paroi interne de la cuve touchant au détecteur, est évaluée. Des bulles de gaz ou des matières en suspension dans le liquide et des objets installés tels que les mélangeurs n'influencent pas le fonctionnement. Si la cuve est en état vide, la paroi interne de la cuve doit être libre de résidus.

Si non, on recommande d'utiliser la méthode par échos. Ce mode permet d'évaluer l'écho reflété par la paroi interne du côté opposé. Comme la part sonore doit traverser la cuve deux fois, le liquide doit être de préférence homogène et propre. Les objets installés sont alors admissibles lorsque ceux-ci peuvent servir comme surface réfléchissante.

Les détecteurs *levelprox*® peuvent fonctionner dans les deux modes de fonctionnement permettant ainsi un fonctionnement idéal du détecteur dans toute application.



Füllstandssensor – levelprox®
Non-invasive level sensors – levelprox®
Détecteur de niveau – levelprox®

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Betriebsart Operating mode Mode de fonctionnement	Behälter- durchmesser Container diameter Diamètre de la cuve [mm]	Wandstärke Wall thickness Épaisseur de la paroi [mm]	Ausgang Output Sortie	Betriebs- spannung U _B Operational voltage U _B Tension de Service U _B [V]
 <p>M30</p> <p>□ →</p>	Echo/Nachhall	min. 100	1...15	—, PNP	15...30
	Echo/Reverberation	min. 100	1...15	—, PNP	15...30
	Écho/réverbération	min. 100	1...15	—, PNP	15...30
 <p>T50</p> <p>□ →</p>	Echo/Nachhall	min. 100	1...15	—, —, program., PNP	15...30
	Echo/Reverberation	min. 100	1...15	—, —, program., PNP	15...30

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Betriebsstrom I ₀ Operational current I ₀ Courant de service I ₀ [mA]	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commutation [Hz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Mode de protection	Werkstoff Gehäuse Material housing Matériau boîtier (IEC 852)
LPRE-M30-AP6X2-H1141	1606203 ^x	200	S108	1	-25...+70	IP67	CuZn
LPRE-EM30-AP6X2-H1141	1606205	200	S108	1	-25...+70	IP67	1.4301 (AISI 304)
LPRE-EM30-RP6X2-H1141	1606209	200	S108	1	-25...+70	IP67	1.4301 (AISI 304)
LPRE-T50-UP6X3-H1151	1606201 ^x	200	S107	1	-25...+70	IP67	1.4404 (AISI 316L)
LPRE-T50-UP6X3-H1151/3GD	1606208 ^x	200	S107	1	-25...+70	IP67	1.4404 (AISI 316L)

Sensortechnik/Sensors/
Détecteurs

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Strömungssensoren

Mit den TURCK-Strömungssensoren steht Ihnen eine vollständige Produktfamilie zur Auswahl.

Ob als Eintauchsensoren oder Inline-Gerät für nachgeschaltete Auswertegeräte oder als Kompaktgerät mit integrierter Auswerteelektronik – alle Geräte sind in Funktion, Konstruktion und Handhabung auf die besonderen Erfordernisse der Industrie zugeschnitten.

Nicht nur die Sensoren, sondern auch die Kompaktgeräte sind vollständig gekapselte Einheiten.

Bei Schwankungen der Mediumtemperatur gewährleisten das optimierte kalorimetrische Messprinzip und die spezielle TURCK-Konstruktion eine hohe Schaltungspunktstabilität.

Für besondere Anforderungen wie

- erhöhter Druck,
 - höhere Mediumtemperaturen,
 - aggressive Medien,
 - Ex-Anwendungen und
 - lebensmitteltaugliche Aseptik
- steht immer die passende Lösung zur Verfügung.

Auch kundenspezifische Ausführungen können hinsichtlich Bauform, Gehäusematerial und Anschlussart realisiert werden. Neben der reinen Strömungsüberwachung sind zusätzliche Gerätefunktionen wie z. B. Temperaturüberwachung möglich.

Strömungssensoren finden ihren Einsatz in den unterschiedlichsten Applikationen vieler Industriezweige. Beispiele für die große Vielfalt an Einsatzmöglichkeiten sind die Überwachung von Hydraulik-, Kühl- und Schmiermittelflüssen in der Automobilindustrie oder die Verwendung als Trockenlaufschutz für Pumpen in der Petrochemie.

So bieten Strömungssensoren von TURCK für Ihre Applikation die maßgeschneiderte Lösung zur Prozessoptimierung.

Flow sensors

TURCK offers a wide range of flow sensors for almost any flow sensing need.

Whether inline or insertion devices, self-contained sensors with integrated control logic, or sensors with remote signal processors, all these devices encompass state-of-the-art electronics and are designed to meet specific industry standards with regard to function, construction and versatility.

Not only the sensors but also the self-contained devices are completely encapsulated units.

TURCK utilises a special construction and the reliable calorimetric sensing method to ensure accurate detection of excessive or insufficient flow rates, even during fluctuations of the medium temperature.

TURCK provides specific solutions for particular requirements such as:

- increased pressure
- higher flow temperatures
- aggressive fluids
- hazardous area applications
- special constructions for the food industry

TURCK also customises flow devices to meet special customer needs with regard to construction, housing material and type of connection. Alongside pure flow rate monitoring, there are additional functions such as temperature monitoring available.



DéTECTEURS DE DÉBIT

TURCK's range of flow sensors is used in diverse applications in all branches of industry. Typical applications, demonstrating the diversity of this line, include the control of hydraulic, cooling and lubricating processes in the automotive industry or run-dry protection in pump systems in the petrochemical sector.

TURCK flow sensors provide made-to-measure solutions for process optimisation.

TURCK propose une gamme de détecteurs de débit qui répondent à de nombreuses applications.

Ceux-ci sont disponibles en version in-line ou par insertion et comportent une électronique de traitement intégrée au capteur ou séparée. Tous les appareils répondent aux exigences spéciales de l'industrie sur le plan de la fonction, du type de construction et de montage.

Les détecteurs avec ou sans électronique de traitement intégrée sont entièrement surmoulés.

En cas de variations de température du fluide, le principe de mesure calorimétrique et la forme spéciale TURCK garantissent une grande stabilité du point de commutation.

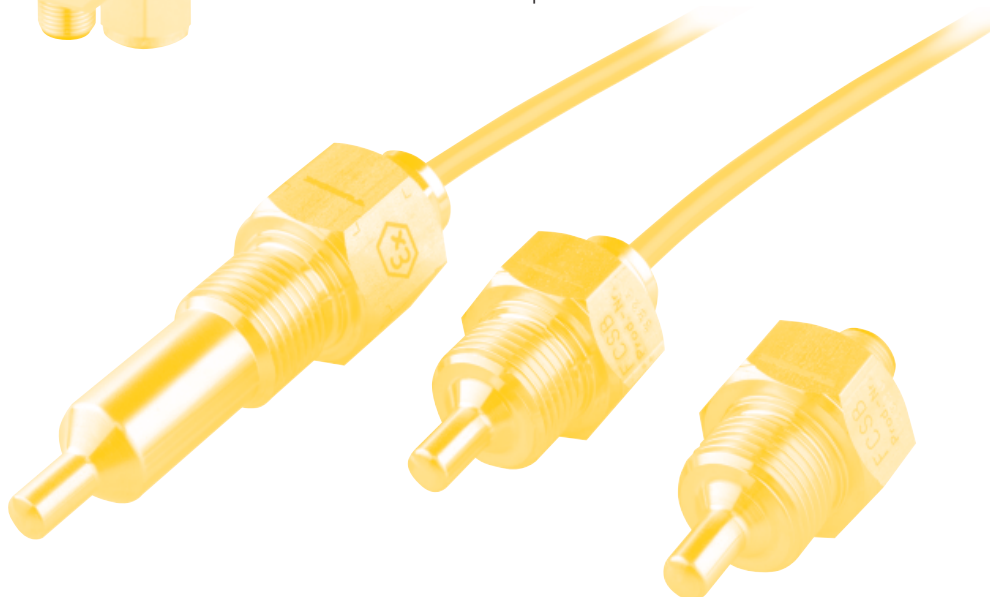
Les contrôleurs de débit TURCK offrent la solution appropriée pour toutes les exigences spécifiques telles que:

- la pression élevée
- la température élevée du fluide
- les milieux agressifs
- les applications Ex
- les constructions spéciales appropriées pour l'industrie alimentaire

Il est également possible de réaliser des versions spécifiques client concernant un format, un matériau de boîtier ou un mode de raccordement spécifique. En plus du contrôle de débit, l'appareil peut réaliser d'autres fonctions telles que la surveillance de la température.

Les détecteurs sont utilisés dans les applications les plus diverses en milieu industriel. Les applications typiques peuvent être la surveillance de circuits hydrauliques, d'installations de lubrification ou refroidissement dans l'industrie automobile ou la protection contre le fonctionnement à sec des pompes dans l'industrie pétrochimique.

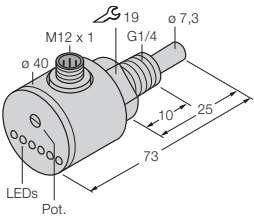

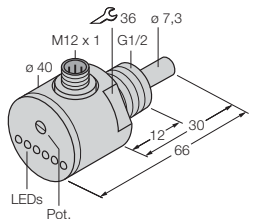

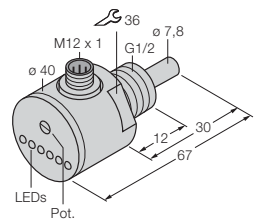

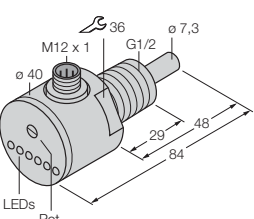

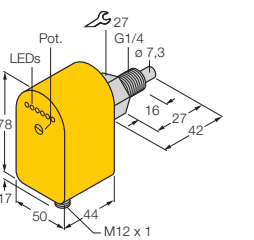

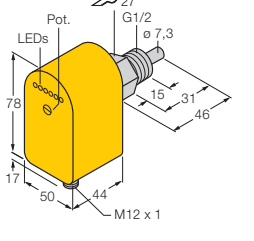

Les détecteurs de débit TURCK offrent une solution efficace pour toutes les applications où il est nécessaire d'optimiser le contrôle.



Strömungssensoren – Eintauch-Kompaktgeräte

Flow sensors – Insertion compact devices

Détecteurs de débit – Appareils d'immersion compacts

Abmessungen Dimensions Dimensions [mm]	Mechanischer und elek. Anschluss Mechanical and electr. connection Connexion méca- nique et électrique	Einsatzbereich Application Champ d'application	Arbeitsbereich Operating range Plage de fonctionnement [cm/s]		Ausgangs- funktion Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de service U_B [V]
			Wasser water eau	Öl oil huile		
	G1/4 	Flüssigkeiten / Fluids / Liquides	1...150	3...300	—, PNP	21...26 VDC
	G1/2 	Flüssigkeiten / Fluids / Liquides	1...150 1...150	3...300 3...300	—, NPN —, PNP	21...26 VDC 21...26 VDC
	G1/2 	Flüssigkeiten / Fluids / Liquides	1...70	2...100	—, PNP	21...26 VDC
	G1/2 long 	Flüssigkeiten / Fluids / Liquides	1...150	3...300	—, PNP	21...26 VDC
	G1/4 	Flüssigkeiten / Fluids / Liquides	1...150	3...300	—, PNP	21...26 VDC
	G1/2 	Flüssigkeiten / Fluids / Liquides	1...150 5...150	3...300	—, PNP 4...20 mA	21...26 VDC 21...26 VDC

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Medium- temperatur Medium temperature Température milieu [°C]	Druck- festigkeit Pressure resistance Résistance à la pression [bar]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials Matériaux (IEC 852)	Sensor Sensor Déecteur	Gehäuse Housing Boîtier
FCS-G1/4A4-AP8X-H1141	6870101✘	S081	-20...80	100	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)	
FCS-G1/2A4-AN8X-H1141	6870034✘	S082	-20...80	100	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)	
FCS-G1/2A4-AP8X-H1141	6870004✘	S081	-20...80	100	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)	
FCS-G1/2DY-AP8X-H1141	6870003✘	S081	-10...80	5	IP67	PVDF	PVDF	
FCS-GL1/2A4-AP8X-H1141	6870204✘	S081	-20...80	100	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)	
FCS-G1/4A4P-AP8X-H1141	6870082	S081	-20...80	100	IP67	A4 (1.4571)	PBT	
FCS-G1/2A4P-AP8X-H1141	6870092✘	S081	-20...80	100	IP67	A4 (1.4571)	PBT	
FCS-G1/2A4P-LIX-H1141	6870056✘	S083	-20...70	100	IP67	A4 (1.4571)	PBT	

Sensortechnik/Sensors/
Décteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Strömungssensoren – Eintauch-Kompaktgeräte
Flow sensors – Insertion compact devices
Détecteurs de débit – Appareils d’immersion compacts

Abmessungen Dimensions Dimensions [mm]	Mechanischer und elek. Anschluss Mechanical and electr. connection Connexion méca- nique et électrique	Einsatzbereich Application Champ d’application	Arbeitsbereich Operating range Plage de fonctionnement [cm/s]		Ausgangs- funktion Output Sortie	Betriebs- spannung U _B Operational voltage U _B Tension de service U _B [V]
			Wasser water eau	Öl oil huile		
	G1/2 	Flüssigkeiten / Fluids / Liquides	1...150	3...300	4...20 mA	21...26 VDC
	G1/2 	Flüssigkeiten / Fluids / Liquides	1...150 1...150	3...300 3...300	 	19.2...28.8 VDC 195...264 VAC
	G1/2 long 	Flüssigkeiten / Fluids / Liquides	1...150 5...150	3...300	 4...20 mA	21...26 VDC 21...26 VDC
	G1/2 long 	Flüssigkeiten / Fluids / Liquides	1...150 1...150	3...300 3...300	 	19.2...28.8 VDC 195...264 VAC
	Varivent 	Flüssigkeiten / Fluids / Liquides	1...150	3...300		21...26 VDC
	Tri-Clamp 1 1/2" 	Flüssigkeiten / Fluids / Liquides	1...150	3...300		21...26 VDC

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Medium-temperatur Medium temperature Température milieu [°C]	Druckfestigkeit Pressure resistance Résistance à la pression [bar]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials Matériaux (IEC 852)	Sensor Sensor Décteur	Gehäuse Housing Boîtier
FCS-G1/2A4P-LIX-H1141/D037	6870058*	S083	-20...70	100	IP67	A4 (1.4571)	PBT	
FCS-G1/2A4P-VRX/24VDC FCS-G1/2A4P-VRX/230VAC	6870096* 6870094*	S117 S116	-20...80 -20...80	100 100	IP67 IP67	A4 (1.4571) A4 (1.4571)	PBT PBT	
FCS-GL1/2A4P-AP8X-H1141 FCS-GL1/2A4P-LIX-H1141	6870242* 6870232*	S081 S081	-20...80 -20...70	100 100	IP67 IP67	A4 (1.4571) A4 (1.4571)	PBT PBT	
FCS-GL1/2A4P-VRX/24VDC FCS-GL1/2A4P-VRX/230VAC	6870097 6870098*	S117 S116	-20...80 -20...80	100 100	IP67 IP67	A4 (1.4571) A4 (1.4571)	PBT PBT	
FCS-68A4-AP8X-H1141/D003	6872003*	S081	0...80	10	IP67	A4 (1.4404)	1.4404 (AISI 316L)	
FCS-50A4-AP8X-H1141/D014	6872025	S081	0...80	10	IP67	A4 (1.4404)	1.4404 (AISI 316L)	

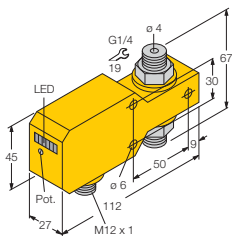



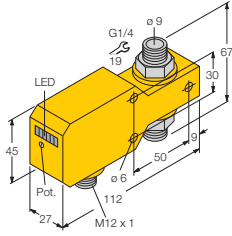



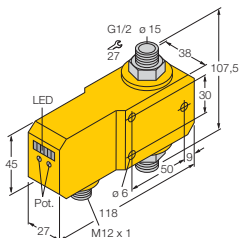



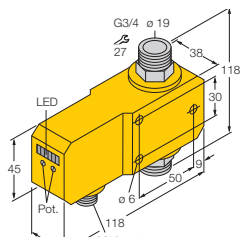



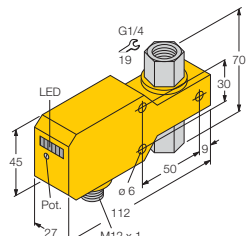



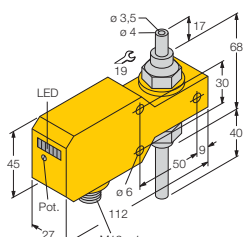



Sensortechnik/Sensors/
Décteurs

* = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Strömungssensoren – In-line-Kompaktgeräte

Flow sensors – In-line compact devices

Détecteurs de débit – Appareils in-line compacts

Abmessungen Dimensions Dimensions [mm]	Mechanischer und elek. Anschluss Mechanical and electr. connection Connexion méca- nique et électrique	Einsatzbereich Application Champ d'application	Arbeitsbereich Operating range Plage de fonctionnement [ml/min]		Ausgangs- funktion Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de service U_B [V]
			Wasser water eau	Öl oil huile		
	G1/4 	Flüssigkeiten / Fluids / Liquides	10...1000	10...1000	 , PNP	21...26 VDC
			10...1000	10...1000		21...26 VDC
			10...1000	10...1000	4...20 mA	21...26 VDC
	G1/4 	Flüssigkeiten / Fluids / Liquides	100...6000	100...6000	 , PNP	21...26 VDC
			100...6000	100...6000		21...26 VDC
			100...6000	100...6000	4...20 mA	21...26 VDC
	G1/2 	Flüssigkeiten / Fluids / Liquides	3000...20000	3000...20000	 , PNP	21...26 VDC
			3000...20000	3000...20000	4...20 mA	21...26 VDC
			3000...20000	3000...20000		21...26 VDC
	G3/4 	Flüssigkeiten / Fluids / Liquides	4000...30000	4000...30000	 , PNP	21...26 VDC
			4000...30000	4000...30000	4...20 mA	21...26 VDC
			4000...30000	4000...30000		21...26 VDC
	G1/4 Innengewinde / internal thread / filet intérieur 	Flüssigkeiten / Fluids / Liquides	20...3000	20...3000	 , PNP	21...26 VDC
			20...3000	20...3000	4...20 mA	21...26 VDC
			20...3000	20...3000		21...26 VDC
	Rohr Tube Tuyau 4mm 	Flüssigkeiten / Fluids / Liquides	1...200	1...200	 , PNP	21...26 VDC
			1...200	1...200	4...20 mA	21...26 VDC
			1...200	1...200		21...26 VDC

	Typenbezeichnung	Ident-Nr.	Anschluss	Medium-temperatur	Druckfestigkeit	Schutzart	Werkstoffe	
	Type	Ident no.	Connection	Medium temperature	Pressure resistance	Degree of protection	Materials	
	Type	No. d'ident.	Connexion (IEC 806)	Température milieu [°C]	Résistance à la pression [bar]	Degré de protection	Sensor Sensor Détecteur	Gehäuse Housing Boîtier
	FCI-D04A4P-AP8X-H1141	6870640 ^x	S081	-20...80	20	IP67	A4 (1.4571)	PBT
	FCI-D04A4P-ARX-H1140	6870645	S080	-20...80	20	IP67	A4 (1.4571)	PBT
	FCI-D04A4P-LIX-H1141	6870641 ^x	S083	-20...80	20	IP67	A4 (1.4571)	PBT
	FCI-D10A4P-AP8X-H1141	6870642 ^x	S081	-20...80	20	IP67	A4 (1.4571)	PBT
	FCI-D10A4P-ARX-H1140	6870644	S080	-20...80	20	IP67	A4 (1.4571)	PBT
	FCI-D10A4P-LIX-H1141	6870643 ^x	S083	-20...80	20	IP67	A4 (1.4571)	PBT
	FCI-D15A4P-AP8X-H1141	6870669	S081	-20...80	20	IP67	A4 (1.4571)	PBT
	FCI-D15A4P-LIX-H1141	6870670	S083	-20...80	20	IP67	A4 (1.4571)	PBT
	FCI-D15A4P-ARX-H1140	6870671	S080	-20...80	20	IP67	A4 (1.4571)	PBT
	FCI-D20A4P-AP8X-H1141	6870672	S081	-20...80	20	IP67	A4 (1.4571)	PBT
	FCI-D20A4P-LIX-H1141	6870673	S083	-20...80	20	IP67	A4 (1.4571)	PBT
	FCI-D20A4P-ARX-H1140	6870674	S080	-20...80	20	IP67	A4 (1.4571)	PBT
	FCI-D06CTP-AP8X-H1141	6870661	S081	0...60	5	IP67	Al2O3/PTFE	PBT
	FCI-D06CTP-LIX-H1141	6870662	S083	0...60	5	IP67	Al2O3/PTFE	PBT
	FCI-D06CTP-ARX-H1140	6870625	S080	0...60	5	IP67	Al2O3/PTFE	PBT
	FCI-TC04A4P-AP8X-H1141	6870656	S081	0...60	1	IP67	A4 (1.4571)	PBT
	FCI-TC04A4P-LIX-H1141	6870655 ^x	S083	0...60	1	IP67	A4 (1.4571)	PBT
	FCI-TC04A4P-ARX-H1140	6870626	S080	0...60	1	IP67	A4 (1.4571)	PBT

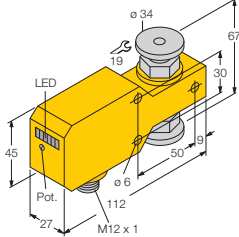



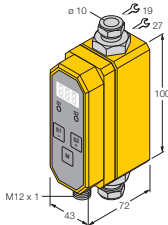



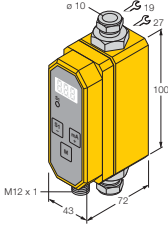



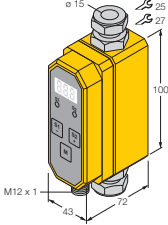



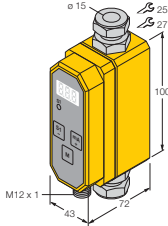



Sensortechnik/Sensors/
Détecteurs

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Strömungssensoren – In-line-Kompaktgeräte

Flow sensors – In-line compact devices

Détecteurs de débit – Appareils in-line compacts

Abmessungen Dimensions Dimensions [mm]	Mechanischer und elek. Anschluss Mechanical and electr. connection Connexion méca- nique et électrique	Einsatzbereich Application Champ d'application	Arbeitsbereich Operating range Plage de fonctionnement [ml/min]		Ausgangs- funktion Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de service U_B [V]
			Wasser water eau	Öl oil huile		
	Tri-Clamp DN 10 	Flüssigkeiten / Fluids / Liquides	100...6000	100...6000	 , PNP 4...20 mA 	21...26 VDC
			100...6000	100...6000		21...26 VDC
			100...6000	100...6000		21...26 VDC
	Schneidring- verschraubung/ Compression ferrule fitting/ Raccord bague coupante DN 10 	Wasser/Glykol Water/Glycol Eau/Glycols	1000...10000	–	2 x  ,  program., PNP	21...26 VDC
			1000...10000	–		21...26 VDC
	Schneidring- verschraubung/ Compression ferrule fitting/ Raccord bague coupante DN 10 	Wasser/Glykol Water/Glycol Eau/Glycols	1000...10000	–	 ,  program., PNP 4...20 mA	21...26 VDC
			1000...10000	–		21...26 VDC
	Schneidring- verschraubung/ Compression ferrule fitting/ Raccord bague coupante DN 10 	Wasser/Glykol Water/Glycol Eau/Glycols	2000...20000	–	2 x  ,  program., PNP	21...26 VDC
			2000...20000	–		21...26 VDC
	Schneidring- verschraubung/ Compression ferrule fitting/ Raccord bague coupante DN 10 	Wasser/Glykol Water/Glycol Eau/Glycols	2000...20000	–	 ,  program., PNP 4...20 mA	21...26 VDC
			2000...20000	–		21...26 VDC

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Medium-temperatur Medium temperature Température milieu [°C]	Druckfestigkeit Pressure resistance Résistance à la pression [bar]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials Matériaux (IEC 852)	
						Sensor Sensor Décteur	Gehäuse Housing Boîtier
FCI-34D10A4P-AP8X-H1141	6870627	S081	-20...80	20	IP67	A4 (1.4404)	PBT
FCI-34D10A4P-LIX-H1141	6870624	S083	0...60	20	IP67	A4 (1.4404)	PBT
FCI-34D10A4P-ARX-H1140	6870628	S080	-20...80	20	IP67	A4 (1.4404)	PBT
FTCI-10D10A4P-2UP8X-H1141	6870041	S160	0...60	20	IP65	A4 (1.4404)	PBT
FTCI-10D10A4P-LI-UP8X-H1141	6870042	S161	0...60	20	IP65	A4 (1.4404)	PBT
FTCI-15D15A4P-2UP8X-H1141	6870043	S160	0...60	20	IP65	A4 (1.4404)	PBT
FTCI-15D15A4P-LI-UP8X-H1141	6870044	S161	0...60	20	IP65	A4 (1.4404)	PBT

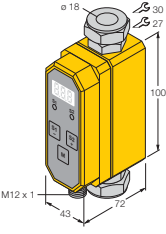

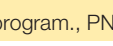
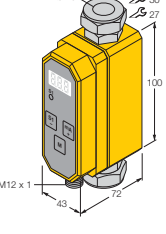

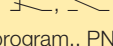
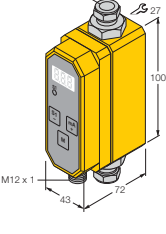

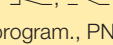
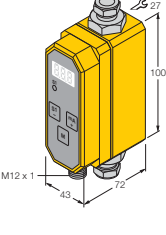

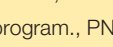
Sensortechnik/Sensors/
Décteurs



* = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Strömungssensoren – In-line-Kompaktgeräte

Flow sensors – In-line compact devices

Détecteurs de débit – Appareils in-line compacts

Abmessungen Dimensions Dimensions [mm]	Mechanischer und elek. Anschluss Mechanical and electr. connection Connexion méca- nique et électrique	Einsatzbereich Application Champ d'application	Arbeitsbereich Operating range Plage de fonctionnement [ml/min]		Ausgangs- funktion Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de service U_B [V]
			Wasser water eau	Öl oil huile		
	Schneidring- verschraubung/ Compression ferrule fitting/ Raccord bague coupante DN 10 	Wasser/Glykol Water/Glycol Eau/Glycols	4000...40000	–	2 x  program., PNP	21...26 VDC
	Schneidring- verschraubung/ Compression ferrule fitting/ Raccord bague coupante DN 10 	Wasser/Glykol Water/Glycol Eau/Glycols	4000...40000	–	 program., PNP 4...20 mA	21...26 VDC
	Schneidring- verschraubung/ Compression ferrule fitting/ Raccord bague coupante DN 10 	Wasser/Glykol Water/Glycol Eau/Glycols	2000...20000	–	 program., PNP 4...20 mA	21...26 VDC
	Schneidring- verschraubung/ Compression ferrule fitting/ Raccord bague coupante DN 10 	Flüssigkeiten / Fluids / Liquides	0...40000	–	 program., PNP 4...20 mA	21...26 VDC

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion  806)	Medium-temperatur Medium temperature Température milieu [°C]	Druckfestigkeit Pressure resistance Résistance à la pression [bar]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials Matériaux  852)	
						Sensor Sensor Déecteur	Gehäuse Housing Boîtier
FTCI-18D15A4P-2UP8X-H1141	6870045	S160	0...60	20	IP65	A4 (1.4404)	PBT
FTCI-18D15A4P-LI-UP8X-H1141	6870046	S161	0...60	20	IP65	A4 (1.4404)	PBT
FCVI-10R09DYA4P-LI-UP8X-H1141	6870159	S161	5...60	10	IP65	A4 (1.4571)/ PVDF	PBT
FCMI-10D08DYA4P-LI-UP8X-H1141	6870603	S161	5...60	10	IP65	A4 (1.4571)/ PVDF	PBT

Sensortechnik/Sensors/
Déecteurs

* = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

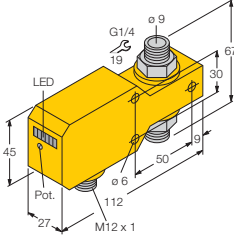



Strömungssensoren – Eintauch-Kompaktgeräte
Flow sensors – Insertion compact devices
Détecteurs de débit – Appareils d’immersion compacts



Abmessungen Dimensions Dimensions [mm]	Mechanischer und elek. Anschluss Mechanical and electr. connection Connexion mécanique et électrique	Einsatzbereich Application Champ d’application	Arbeitsbereich Operating range Plage de fonctionnement Luft/Air/Air [m/s]	Ausgangs- funktion Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de service U_B [V]
	G1/2 long 	Gase / Gases / Gaz	0.5...30 0.5...30	—, PNP 4...20 mA	21...26 VDC 21...26 VDC
	G1/2 long 2 m 	Gase / Gases / Gaz	0.5...30 0.5...30	 	19.2...28.8 VDC 195...264 VAC
	G1 Innengewinde / internal thread / filet intérieur 	Gase / Gases / Gaz	0.5...30	4...20 mA	21...26 VDC
	G1 Innengewinde / internal thread / filet intérieur 2 m 	Gase / Gases / Gaz	0.5...30 0.5...30	 4...20 mA	195...264 VAC 21...26 VDC
	M18 x 1 2 m 	Gase / Gases / Gaz	0.5...15 0.5...15	—, PNP 4...20 mA	19.2...28.8 VDC 21...26 VDC
	Flansch 20mm Flange 20mm Bride 20mm 2 m 	Gase / Gases / Gaz	0.5...15 0.5...15	—, PNP 4...20 mA	19.2...28.8 VDC 21...26 VDC

	Typenbezeichnung	Ident-Nr.	Anschluss	Medium-temperatur	Druckfestigkeit	Schutzart	Werkstoffe	
	Type	Ident no.	Connection	Medium temperature	Pressure resistance	Degree of protection	Materials	
	Type	No. d'ident.	Connexion (IEC 806)	Température milieu [°C]	Résistance à la pression [bar]	Degré de protection	Sensor Sensor Détecteur	Gehäuse Housing Boîtier
	FCS-GL1/2A2P-AP8X-H1141/A	6870457✘	S081	-20...80	30	IP67	A2 (1.4305)	PBT
	FCS-GL1/2A2P-LIX-H1141/A	6870455✘	S083	-20...80	30	IP67	A2 (1.4305)	PBT
	FCS-GL1/2A2P-VRX/24VDC/A	6870363	S117	-20...80	30	IP67	A2 (1.4305)	PBT
	FCS-GL1/2A2P-VRX/230VAC/A	6870458	S116	-20...80	30	IP67	A2 (1.4305)	PBT
	FCS-HA2P-LIX-H1141/AL115	6870720	S083	-20...80	3	IP67	A2 (1.4305)	PBT
	FCS-HA2P-VRX/230VAC/AL115	6870724	S116	-20...80	3	IP67	A2 (1.4305)	PBT
	FCS-HA2P-LIX/AL115	6870722	S084	-20...80	3	IP67	A2 (1.4305)	PBT
	FCS-M18-AP8X	6870704✘	S085	-20...70	1	IP67		CuZn
	FCS-M18-LIX	6870707	S084	-20...70	1	IP67		CuZn
	FCS-K20-AP8X	6870702✘	S085	-20...70	1	IP67	PBT	PBT
	FCS-K20-LIX	6870703✘	S084	-20...70	1	IP67	PBT	PBT

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Strömungssensoren – In-line-Kompaktgeräte
Flow sensors – In-line compact devices
Détecteurs de débit – Appareils in-line compacts

Abmessungen Dimensions Dimensions [mm]	Mechanischer und elek. Anschluss Mechanical and electr. connection Connexion méca- nique et électrique	Einsatzbereich Application Champ d'application	Arbeitsbereich Operating range Plage de fonctionnement Luft/Air/Air [m/s]	Ausgangs- funktion Output Sortie	Betriebs- spannung U_B Operational voltage U_B Tension de service U_B [V]
	G1/4 	Gase / Gases / Gaz	0.5...40	 , PNP	21...26 VDC
			0.5...40	4...20 mA	21...26 VDC
			0.5...40		21...26 VDC

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion  806)	Medium-temperatur Medium temperature Température milieu [°C]	Druckfestigkeit Pressure resistance Résistance à la pression [bar]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials Matériaux ( 852)	
						Sensor Sensor Décteur	Gehäuse Housing Boîtier
FCI-D10A4P-AP8X-H1141/A	6870646	S081	-20...80	20	IP67	A4 (1.4571)	PBT
FCI-D10A4P-LIX-H1141/A	6870639	S083	-20...80	20	IP67	A4 (1.4571)	PBT
FCI-D10A4P-ARX-H1140/A	6870667	S080	-20...80	20	IP67	A4 (1.4571)	PBT

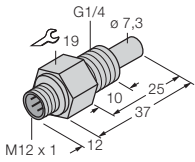



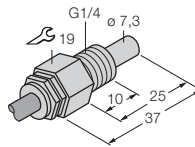



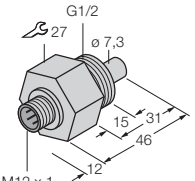



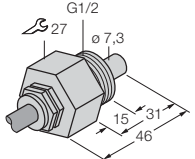



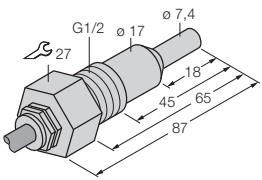


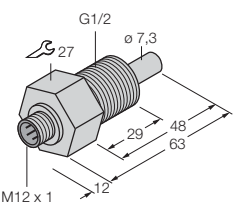


Sensortechnik/Sensors/
Détecteurs

* = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Strömungssensoren – Eintauchsensoren für separate Auswertegeräte

Flow sensors – Insertion sensors for remote processors

Détecteurs de débit – Détecteurs d'immersion pour des appareils de traitement séparés

Abmessungen Dimensions Dimensions [mm]	Mechanischer und elektrischer Anschluss Mechanical and electr. connection Connexion mécanique et électrique	Einsatzbereich Application Champ d'application	Besondere Merkmale Special features Caractéristiques	Abeitsbereich Operating range Plage de fonctionnement [cm/s]	
				Wasser water eau	Öl oil huile
	G1/4 	Flüssigkeiten / Fluids / Liquides	 II 2 G  II 1 G	1...150 1...100 1...100	3...300 3...200 3...200
	G1/4 	Flüssigkeiten / Fluids / Liquides	T +120 °C  II 2 G  II 1 G	1...150 1...100 1...100	3...300 3...200 3...200
	G1/2 	Flüssigkeiten / Fluids / Liquides	 II 2 G  II 1 G Titan B3	1...150 1...100 1...100 1...150	3...300 3...200 3...200 3...300
	G1/2 	Flüssigkeiten / Fluids / Liquides	T +120 °C  II 2 G  II 1 G	1...150 1...150 1...100 1...100	3...300 3...300 3...200 3...200
	G1/2 	Flüssigkeiten / Fluids / Liquides	 II 1 G	1...100	3...200
	G1/2 long 	Flüssigkeiten / Fluids / Liquides	 II 2 G Titan B3	1...150 1...100 1...150	3...300 3...200 3...300

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Medium-temperatur Medium temperature Température milieu [°C]	Druckfestigkeit Pressure resistance Résistance à la pression [bar]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials Matériaux (IEC 852)	Sensor Sensor Décteur	Gehäuse Housing Boîtier
FCS-G1/4A4-NA-H1141	6870304X	S140	-20...80	100	IP67	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/4A4-NAEX-H1141	6870341	S141	-20...85	60	IP67	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/4A4-NAEX0-H1141	6870466	S145	-20...60	60	IP67	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/4A4-NA/D100	6870411X	S142	10...120	100	IP68	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/4A4-NAEX	6870315X	S143	-20...85	60	IP68	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/4A4-NAEX0	6870465	S144	-20...60	60	IP68	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/2A4-NA-H1141	6870303X	S140	-20...80	100	IP67	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/2A4-NAEX-H1141	6870322X	S141	-20...85	60	IP67	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/2A4-NAEX0-H1141	6870468	S145	-20...60	60	IP67	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/2TN-NA-H1141	6870311X	S140	-20...80	100	IP67	B3 (3.7035)	B3 (3.7035)	B3 (3.7035)
FCS-G1/2A4-NA	6870338X	S142	-20...80	100	IP68	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/2A4-NA/D100	6870412X	S142	10...120	100	IP68	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/2A4-NAEX	6870320X	S143	-20...85	60	IP68	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/2A4-NAEX0	6870467	S144	-20...60	60	IP68	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/2A4-NAEX0/L065	6870335X	S144	-20...60	60	IP68	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-GL1/2A4-NA-H1141	6870403X	S140	-20...80	100	IP67	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-GL1/2A4-NAEX-H1141	6870432X	S141	-20...85	60	IP67	A4 (1.4571)	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-GL1/2TN-NA-H1141	6870408	S140	-20...80	100	IP67	B3 (3.7035)	B3 (3.7035)	B3 (3.7035)

Sensortechnik/Sensors/
Décteurs

X = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Strömungssensoren – Eintauchsensoren für separate Auswertegeräte

Flow sensors – Insertion sensors for remote processors

Détecteurs de débit – Détecteurs d'immersion pour des appareils de traitement séparés

Abmessungen Dimensions Dimensions [mm]	Mechanischer und elektrischer Anschluss Mechanical and electr. connection Connexion mécanique et électrique	Einsatzbereich Application Champ d'application	Besondere Merkmale Special features Caractéristiques	Abeitsbereich Operating range Plage de fonctionnement [cm/s]	
				Wasser water eau	Öl oil huile
	G1/2 long 	Flüssigkeiten / Fluids / Liquides	T +120 °C 	1...150 1...150 1...100 1...100	3...300 3...300 3...200 3...200
	G1/2 long 	Flüssigkeiten / Fluids / Liquides	Teflon	1...70	2...100
	G1/2 long 	Flüssigkeiten / Fluids / Liquides	500 bar	1...150	3...300
	G1/2 long 	Flüssigkeiten / Fluids / Liquides		1...100	3...200
	G3/4 long 	Flüssigkeiten / Fluids / Liquides		1...150	3...300
	G3/4 long 	Flüssigkeiten / Fluids / Liquides		1...100	3...200

	Typenbezeichnung	Ident-Nr.	Anschluss	Medium-temperatur	Druckfestigkeit	Schutzart	Werkstoffe	
	Type	Ident no.	Connection	Medium temperature	Pressure resistance	Degree of protection	Sensor Sensor Déecteur	Gehäuse Housing Boîtier
	Type	No. d'ident.	Connexion (IEC 806)	Température milieu [°C]	Résistance à la pression [bar]	Degré de protection		
	FCS-GL1/2A4-NA	6870402 ^x	S142	-20...80	100	IP68	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
	FCS-GL1/2A4-NA/D100	6870418 ^x	S142	10...120	100	IP68	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
	FCS-GL1/2A4-NAEX	6870430 ^x	S143	-20...85	60	IP68	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
	FCS-GL1/2A4-NAEXO	6870469	S144	-20...60	60	IP68	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
	FCS-GL1/2T-NA	6870422 ^x	S142	-10...70	5	IP68	PTFE	PTFE
	FCS-GL1/2A4-NA-H1141/D500	6870425 ^x	S140	-20...80	500	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
	FCS-GL1/2A4-NAEX/D500	6870431 ^x	S143	-20...85	500	IP68	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
	FCS-G3/4A4-NA-H1141	6870306 ^x	S140	-20...80	100	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
	FCS-GL3/4A4-NAEXO	6870428 ^x	S146	-20...60	60	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)

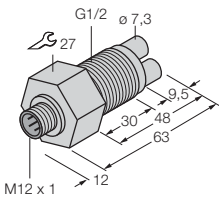

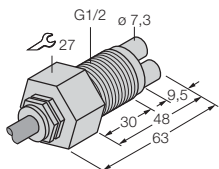

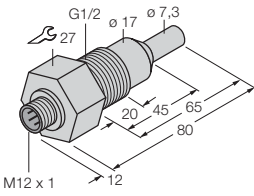

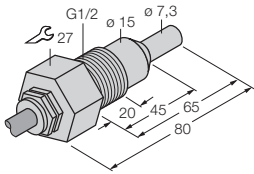

Sensortechnik/Sensors/
Déecteurs

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Strömungssensoren – Eintauchsensoren für separate Auswertegeräte

Flow sensors – Insertion sensors for remote processors

Détecteurs de débit – Détecteurs d'immersion pour des appareils de traitement séparés

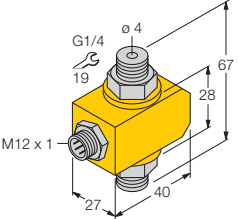

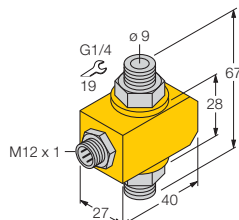

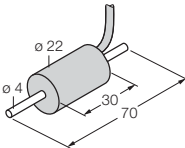

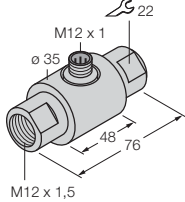

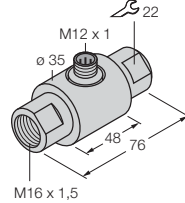

Abmessungen Dimensions Dimensions [mm]	Mechanischer und elektrischer Anschluss Mechanical and electr. connection Connexion mécanique et électrique	Einsatzbereich Application Champ d'application	Besondere Merkmale Special features Caractéristiques	Abeitsbereich Operating range Plage de fonctionnement Luft/Air/Air [m/s]
	G1/2 long 	Gase / Gases / Gaz	II 2 G II 1 G	0.5...30 2...20 2...20
	G1/2 long 	Gase / Gases / Gaz	T +120 °C II 2 G II 2 G / T +120 °C II 1 G	0.5...30 0.5...30 2...20 2...20
	G1/2 	Gase / Gases / Gaz	II 2 G	2...20
	G1/2 	Gase / Gases / Gaz	II 2 G	2...20

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Medium-temperatur Medium temperature Température milieu [°C]	Druckfestigkeit Pressure resistance Résistance à la pression [bar]	Schutzart Degree of protection Degré de protection	Sensor Sensor Décteur	Werkstoffe Materials Matériaux (IEC 852) Gehäuse Housing Boîtier
FCS-GL1/2A2-NA-H1141/A	6870404✘	S140	-20...80	30	IP67	A2 (1.4305)	A2 1.4305 (AISI 303)
FCS-GL1/2A4-NAEX-H1141/A	6870439	S141	-20...85	10	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-GL1/2A4-NAEX0-H1141/A	6870348	S145	-20...60	10	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-GL1/2A2-NA/A	6870409	S142	-20...80	30	IP68	A2 (1.4305)	A2 1.4305 (AISI 303)
FCS-GL1/2A2-NA/A/D100	6870380	S142	-20...120	30	IP68	A2 (1.4305)	A2 1.4305 (AISI 303)
FCS-GL1/2A4-NAEX/A	6870440✘	S143	-20...85	10	IP68	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-GL1/2A4-NAEX/A/D100	6870464	S143	-20...120	10	IP68	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-GL1/2A4-NAEX0/A	6870349	S144	-20...60	10	IP68	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/2A4-NAEX-H1141/AL065	6870333	S141	-20...85	10	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)
FCS-G1/2A4-NAEX/AL065	6870324✘	S143	-20...85	10	IP68	A4 (1.4571)	A4 1.4571 (AISI 316Ti)

Sensortechnik/Sensors/
Décteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

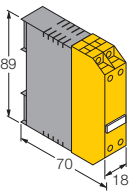
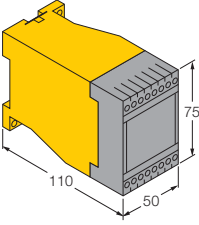
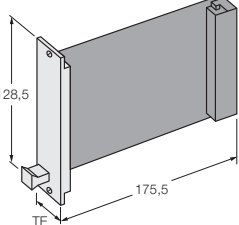
Strömungssensoren – Inlinesensoren für separate Auswertegeräte
Flow sensors – In-line sensors for remote processors
Détecteurs de débit – Détecteurs in-line pour des appareils de traitement séparés

Abmessungen Dimensions Dimensions [mm]	Elektrischer und mechanischer Anschluss (Innengewinde) Electrical and mechanical connection (internal thread) Connexion électrique et mécanique (filetage intérieur)	Einsatzbereich Application Champ d'application	Besondere Merkmale Special features Caractéristiques	Arbeitsbereich Operating range Plage de fonctionnement [ml/min]		
				Wasser water eau	Öl oil huile	
	<p>G1/4</p> 	<p>Flüssigkeiten / Fluids / Liquides</p>		10...1000	10...1000	
	<p>G1/4</p> 	<p>Flüssigkeiten / Fluids / Liquides</p>		100...6000	100...6000	
	<p>Rohr/pipe/tube 4mm</p> 	<p>Flüssigkeiten / Fluids / Liquides</p>		5...150	15...300	
	<p>M12 x 1,5</p> 	<p>Flüssigkeiten / Fluids / Liquides</p>	<p>⊕ II 2 G</p>	5...150 10...150	15...300 25...300	
	<p>M16 x 1,5</p> 	<p>Flüssigkeiten / Fluids / Liquides</p>	<p>⊕ II 2 G ⊕ II 2 G</p>	5...150 30...900 10...150 50...900	15...300 90...1800 25...300 150...1800	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Medium- temperatur Medium temperature Température mieu [°C]	Druck- festigkeit Pressure resistance Résistance à la pression [bar]	Schutzart Degree of protection Degré de protection	Werkstoffe Materials Matériaux (IEC 852)	Sensor Sensor Décteur	Gehäuse Housing Boîtier
FCI-D04A4P-NA-H1141	6870638	S140	0...80	20	IP67	A4 (1.4571)	PBT	
FCI-D10A4P-NA-H1141	6870629	S140	0...80	20	IP67	A4 (1.4571)	PBT	
FCI-D03A4P-NA	6870637	S142	-5...70	5	IP68	A4 (1.4571)	Delrin (POM)	
FCI-D03A4-NA-H1141/M12	6870635 ^x	S140	-20...80	10	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)	
FCI-D03A4-NAEX-H1141/M12	6870632	S141	-20...70	6	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)	
FCI-D03A4-NA-H1141/M16	6870633 ^x	S140	-20...80	10	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)	
FCI-D09A4-NA-H1141/M16	6870631 ^x	S140	-20...80	16	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)	
FCI-D03A4-NAEX-H1141/M16	6870636	S141	-20...70	6	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)	
FCI-D09A4-NAEX-H1141/M16	6870634	S141	-20...70	6	IP67	A4 (1.4571)	A4 1.4571 (AISI 316Ti)	

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Strömungssensoren – Auswertegeräte
Flow sensors – Signal processors
Détecteurs de débit – Appareils de traitement

Abmessungen Dimensions Dimensions [mm]	Strömungs- überwachung Flow control Contrôle du débit	Temperatur- überwachung Temperature control Contrôle de la température	Ausgangs- funktion Output function Fonction de sortie	Zusatzfunktionen einstellbar Adjustable timing functions Fonctions temporisées réglables [s]
	<ul style="list-style-type: none"> • • • • 	<p>–</p> <p>–</p> <p>–</p> <p>–</p>	<p>— , PNP</p> <p>— , NPN</p> <p>4...20 mA</p> <p>— , 1</p>	
	<ul style="list-style-type: none"> • • • • • • 	<ul style="list-style-type: none"> • • • – – – 	<p>— , 2</p> <p>— , 2</p> <p>— , 2</p> <p>— , 1</p> <p>— , 1</p> <p>— , 1</p>	<p>Ausschaltverzögerung 0...25 s/ switch of delay 0...25 s/ Temporisation au déclenchement 0...25 s</p>
	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<p>— , 2</p>	<p>Ausschaltverzögerung 0...25 s/ switch of delay 0...25 s/ Temporisation au déclenchement 0...25 s</p>

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Betriebs- spannung U_B Operational voltage U_B Tension de service U_B [V]	Stromaufnahme Current consumption Courant absorbé [mA]	Funktionsanzeige Function indication Visualisation de la fonction [LED]	Schutzart Klemmen/Gehäuse Degree of protection terminals/housing Degré de protection bornes/boîtier
MK96-VP01	7525002	19...28 DC	65	6	IP20/IP40
MK96-VN01	7525003	19...28 DC	65	6	IP20/IP40
MK96-Li01	7525002	19...28 DC	100	6	IP20/IP40
MK96-11-R/24VDC	7525000	19...28 DC	70	6	IP20/IP40
MS96-12R/230VAC	5231000	184...265 AC	35	6	IP20/IP40
MS96-12R/115VAC	5231002	92...127 AC	90	6	IP20/IP40
MS96-12R/24VDC	5231007	19...29 DC	120	6	IP20/IP40
MS96-11EX0-R/230VAC	5231400	198...242 AC	28	6	IP20/IP40
MS96-11EX0-R/115VAC	5231402	99...121 AC	75	6	IP20/IP40
MS96-11EX0-R/24VDC	5231407	21...28 DC	125	6	IP20/IP40
MC96-12EX0-R/24VDC	9078511	20...26 DC	80	6	IP20

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available on short notice/Types préférés, livrables à bref délai

Drucksensoren

In allen pneumatischen oder hydraulischen Systemen, in denen Drücke gemessen, überwacht und angezeigt werden sollen, finden elektronische Drucksensoren ihren Einsatzbereich. Mechanische Ausführungen, die bis heute noch im Einsatz sind, werden mehr und mehr durch die effizienteren, elektronischen Drucksensoren ersetzt.

Die Nachteile mechanischer Geräte liegen auf der Hand:

- Damit die Schaltpunkte exakt eingestellt werden können, muss zusätzlich ein Manometer angeschlossen werden.
- Mechanische Geräte müssen regelmäßig nachjustiert werden.
- Da mechanische Komponenten nicht verschleißfrei arbeiten, entsteht ein hoher Wartungsaufwand.

Elektronische Drucksensoren von TURCK arbeiten mit einer keramischen Messzelle nach dem piezoresistiven Messprinzip. Der Druck auf das keramische Trägermaterial führt zu einer Verformung der im Dickschichtverfahren aufgetragenen Halbleiterwiderstände. Diese sind in einer Wheatston'schen Messbrücke verschaltet. Die Verstimmung der Brücke wird als druckproportionales Signal elektronisch weiterverarbeitet.

Die Sensorbaureihe PS400/500 ist mit einer Anzeige ausgestattet und in Ausführungen mit verschiedenen Schalt- und Analogausgängen erhältlich.

Bei der Baureihe PT-1 und PC-1 handelt es sich um kompakte und kostengünstige OEM-Sensoren ohne Anzeige. Verfügbar sind Geräte mit einem Analogsignal oder alternativ mit einem fest eingestellten Schaltausgang.

Pressure sensors

Electronic pressure sensors are suited for use in all pneumatic or hydraulic systems in which pressures have to be measured, monitored and controlled. Mechanical versions, that are still being used today, are increasingly replaced by the more efficient electronic pressure sensors.

The disadvantages of mechanical devices are obvious:

- In order to adjust switch points accurately, it is necessary to connect an additional manometer
- Mechanical devices require frequent readjustment
- Mechanical components are subject to wear and thus have to be maintained regularly

Electronic pressure sensors from TURCK use a ceramic measuring cell operating according to the piezo-resistive measuring principle. The effect of pressure on the ceramic coating results in a deformation of the thick film resistors. The resistors are interconnected to a Wheatstone bridge. Disruption of the bridge balance is indicated by a pressure proportional signal which is further processed.



Capteurs de pression

The sensor series PS400/500 are equipped with a display and are available with a variety of switching and analogue outputs.

The series PT-1 and PC-1 consist of compact and inexpensive OEM sensors without displays. Devices are available with an analog signal or a factory set switching output.

Les capteurs de pression électroniques peuvent être utilisés dans les systèmes pneumatiques ou hydrauliques, dans lesquels des pressions doivent être mesurées, surveillées et visualisées. Les versions mécaniques utilisées à ce jour sont de plus en plus remplacées par les détecteurs de pression électroniques plus efficaces.

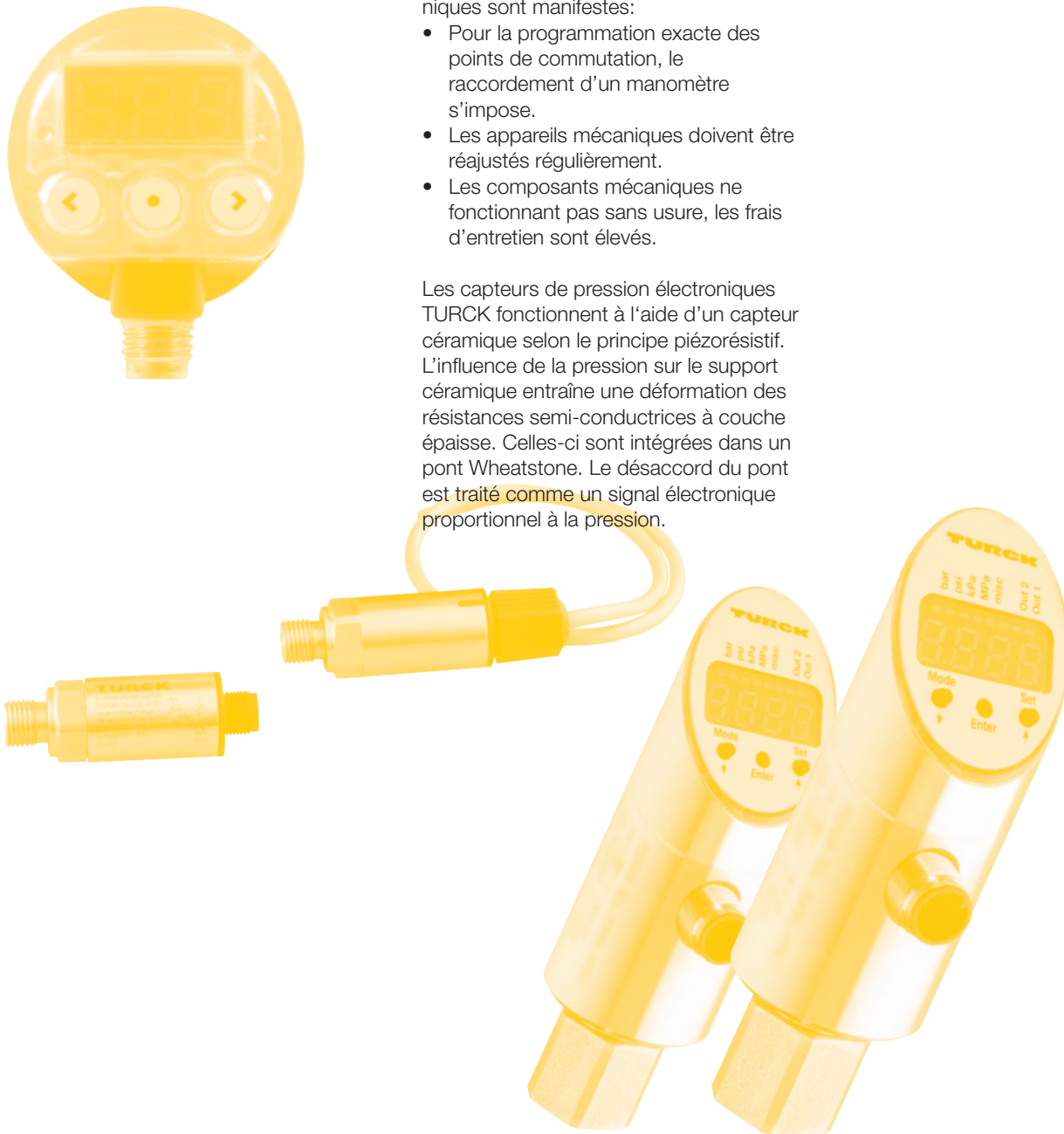
Les inconvénients des appareils mécaniques sont manifestes:

- Pour la programmation exacte des points de commutation, le raccordement d'un manomètre s'impose.
- Les appareils mécaniques doivent être réajustés régulièrement.
- Les composants mécaniques ne fonctionnant pas sans usure, les frais d'entretien sont élevés.

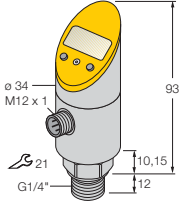

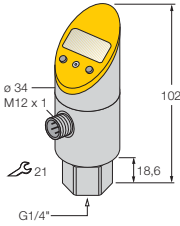

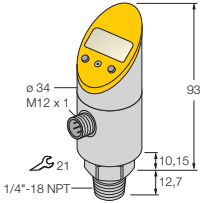

Les capteurs de pression électroniques TURCK fonctionnent à l'aide d'un capteur céramique selon le principe piézorésistif. L'influence de la pression sur le support céramique entraîne une déformation des résistances semi-conductrices à couche épaisse. Celles-ci sont intégrées dans un pont Wheatstone. Le désaccord du pont est traité comme un signal électronique proportionnel à la pression.

Les séries de détecteurs de pression PS400/500 sont équipées d'un affichage et disponibles en versions avec différentes sorties de commutation et analogique.

Les séries PT-1 et PC-1 sont des détecteurs OEM compacts et avantageux sans affichage. On propose des appareils avec un signal analogique ou alternativement avec une sortie de commutation fixe.

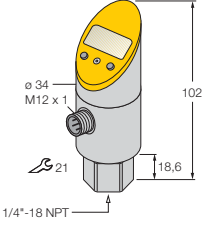



Drucksensor (starr) mit 2 Transistorausgängen pnp/npn
Pressure sensor (rigid) with 2 transistor outputs pnp/npn
Capteur de pression (fixe) avec 2 sorties transistorisées pnp/npn

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>G 1/4" male thread</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale
 <p>G 1/4" female thread</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale
 <p>NPT 1/4" - 18 male thread</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PS01VR-404-2UPN8X-H1141	6832511	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001R-404-2UPN8X-H1141	6832512	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001V-404-2UPN8X-H1141	6832513	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS003V-404-2UPN8X-H1141	6832514	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS010V-404-2UPN8X-H1141	6832515	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS016V-404-2UPN8X-H1141	6832516	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS025V-404-2UPN8X-H1141	6832517	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS040V-404-2UPN8X-H1141	6832518	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS100R-404-2UPN8X-H1141	6832519	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS250R-404-2UPN8X-H1141	6832520	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS400R-404-2UPN8X-H1141	6832521	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS600R-404-2UPN8X-H1141	6832522	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS01VR-401-2UPN8X-H1141	6832460	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001R-401-2UPN8X-H1141	6832461	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001V-401-2UPN8X-H1141	6832462	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS003V-401-2UPN8X-H1141	6832463	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS010V-401-2UPN8X-H1141	6832464	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS016V-401-2UPN8X-H1141	6832465	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS025V-401-2UPN8X-H1141	6832466	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS040V-401-2UPN8X-H1141	6832467	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS100R-401-2UPN8X-H1141	6832468	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS250R-401-2UPN8X-H1141	6832469	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS400R-401-2UPN8X-H1141	6832470	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS600R-401-2UPN8X-H1141	6832471	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS01VR-403-2UPN8X-H1141	6832494	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001R-403-2UPN8X-H1141	6832495	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001V-403-2UPN8X-H1141	6832496	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS003V-403-2UPN8X-H1141	6832497	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS010V-403-2UPN8X-H1141	6832498	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS016V-403-2UPN8X-H1141	6832499	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS025V-403-2UPN8X-H1141	6832500	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS040V-403-2UPN8X-H1141	6832501	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS100R-403-2UPN8X-H1141	6832502	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS250R-403-2UPN8X-H1141	6832503	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS400R-403-2UPN8X-H1141	6832504	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS600R-403-2UPN8X-H1141	6832505	—, PNP/NPN	—, PNP/NPN	-40...+85	S136

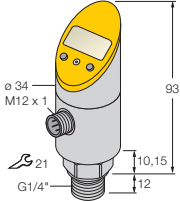

Drucksensor (starr) mit 2 Transistorausgängen pnp/npn
Pressure sensor (rigid) with 2 transistor outputs pnp/npn
Capteur de pression (fixe) avec 2 sorties transistorisées pnp/npn













Abmessungen	Mech. und elektr. Anschluss	Nennndruck	Zulässiger Überdruck	Berstdruck	Genauigkeit
Dimensions	Mech. and electr. connection	Nominal pressure	Admissible overpressure	Burst pressure	Accuracy
Dimensions	Connexion mécanique et électrique	Pression nominale	Surpression admissible	Pression d'éclatement	Précision
		[bar]	[bar]	[bar]	
 <p>NPT 1/4" - 18 female thread</p> <p></p>	-1...0	3	3	0.5% of full scale	
	0...1	3	3	0.5% of full scale	
	-1...1	3	3	0.5% of full scale	
	-1...2.5	7	7	0.5% of full scale	
	-1...10	25	25	0.5% of full scale	
	-1...16	40	40	0.5% of full scale	
	-1...25	65	65	0.5% of full scale	
	-1...40	100	100	0.5% of full scale	
	0...100	250	250	0.5% of full scale	
	0...250	625	625	0.5% of full scale	
	0...400	900	900	0.5% of full scale	
	0...600	900	900	0.5% of full scale	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EAC 806)
PS01VR-402-2UPN8X-H1141	6832477	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001R-402-2UPN8X-H1141	6832478	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001V-402-2UPN8X-H1141	6832479	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS003V-402-2UPN8X-H1141	6832480	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS010V-402-2UPN8X-H1141	6832481	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS016V-402-2UPN8X-H1141	6832482	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS025V-402-2UPN8X-H1141	6832483	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS040V-402-2UPN8X-H1141	6832484	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS100R-402-2UPN8X-H1141	6832485	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS250R-402-2UPN8X-H1141	6832486	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS400R-402-2UPN8X-H1141	6832487	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS600R-402-2UPN8X-H1141	6832488	—, PNP/NPN	—, PNP/NPN	-40...+85	S136

Sensortechnik/Sensors/
Détecteurs

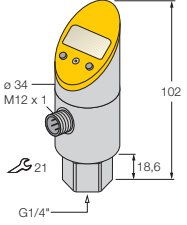

Drucksensor (starr) mit 2 Transistorausgängen pnp/npn – Ausgang 2 als Stromausgang
Pressure sensor (rigid) with 2 transistor outputs pnp/npn – Output 2 as current output
Capteur de pression (fixe) avec 2 sort. transistor. pnp/npn - Sortie 2 comme sort. de courant

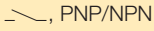









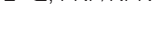
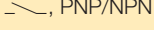
Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>G 1/4" male thread</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PS01VR-404-LI2UPN8X-H1141	6832200	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001R-404-LI2UPN8X-H1141	6832201	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001V-404-LI2UPN8X-H1141	6832612	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS003V-404-LI2UPN8X-H1141	6832613	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS010V-404-LI2UPN8X-H1141	6832614	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS016V-404-LI2UPN8X-H1141	6832615	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS025V-404-LI2UPN8X-H1141	6832616	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS040V-404-LI2UPN8X-H1141	6832617	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS100R-404-LI2UPN8X-H1141	6832207	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS250R-404-LI2UPN8X-H1141	6832208	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS400R-404-LI2UPN8X-H1141	6832209	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS600R-404-LI2UPN8X-H1141	6832618	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136

Sensortechnik/Sensors/
Détecteurs

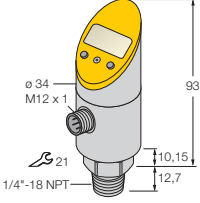

Drucksensor (starr) mit 2 Transistorausgängen pnp/npn – Ausgang 2 als Stromausgang
Pressure sensor (rigid) with 2 transistor outputs pnp/npn – Output 2 as current output
Capteur de pression (fixe) avec 2 sort. transistor. pnp/npn - Sortie 2 comme sort. de courant













Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
	G 1/4" female thread 	-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PS01VR-401-LI2UPN8X-H1141	6832100	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001R-401-LI2UPN8X-H1141	6832101	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001V-401-LI2UPN8X-H1141	6832576	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS003V-401-LI2UPN8X-H1141	6832577	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS010V-401-LI2UPN8X-H1141	6832578	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS016V-401-LI2UPN8X-H1141	6832579	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS025V-401-LI2UPN8X-H1141	6832580	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS040V-401-LI2UPN8X-H1141	6832581	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS100R-401-LI2UPN8X-H1141	6832107	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS250R-401-LI2UPN8X-H1141	6832108	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS400R-401-LI2UPN8X-H1141	6832109	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS600R-401-LI2UPN8X-H1141	6832582	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136

Sensortechnik/Sensors/
Détecteurs

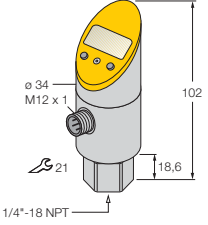


Drucksensor (starr) mit 2 Transistorausgängen pnp/npn – Ausgang 2 als Stromausgang
Pressure sensor (rigid) with 2 transistor outputs pnp/npn – Output 2 as current output
Capteur de pression (fixe) avec 2 sort. transistor. pnp/npn - Sortie 2 comme sort. de courant

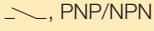



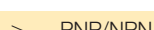







Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>NPT 1/4" - 18 male thread</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PS01VR-403-LI2UPN8X-H1141	6832180	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001R-403-LI2UPN8X-H1141	6832181	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001V-403-LI2UPN8X-H1141	6832600	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS003V-403-LI2UPN8X-H1141	6832601	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS010V-403-LI2UPN8X-H1141	6832602	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS016V-403-LI2UPN8X-H1141	6832603	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS025V-403-LI2UPN8X-H1141	6832604	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS040V-403-LI2UPN8X-H1141	6832605	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS100R-403-LI2UPN8X-H1141	6832187	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS250R-403-LI2UPN8X-H1141	6832188	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS400R-403-LI2UPN8X-H1141	6832189	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS600R-403-LI2UPN8X-H1141	6832606	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136

Sensortechnik/Sensors/
Détecteurs

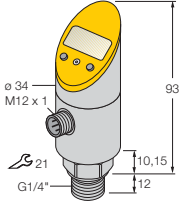

Drucksensor (starr) mit 2 Transistorausgängen pnp/npn – Ausgang 2 als Stromausgang
Pressure sensor (rigid) with 2 transistor outputs pnp/npn – Output 2 as current output
Capteur de pression (fixe) avec 2 sort. transistor. pnp/npn - Sortie 2 comme sort. de courant



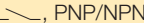





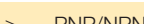
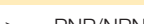
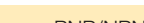
Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>NPT 1/4" - 18 female thread</p> 	<p>NPT 1/4" - 18 female thread</p> 	-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PS01VR-402-LI2UPN8X-H1141	6832140	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001R-402-LI2UPN8X-H1141	6832141	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001V-402-LI2UPN8X-H1141	6832588	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS003V-402-LI2UPN8X-H1141	6832589	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS010V-402-LI2UPN8X-H1141	6832590	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS016V-402-LI2UPN8X-H1141	6832591	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS025V-402-LI2UPN8X-H1141	6832592	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS040V-402-LI2UPN8X-H1141	6832593	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS100R-402-LI2UPN8X-H1141	6832147	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS250R-402-LI2UPN8X-H1141	6832148	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS400R-402-LI2UPN8X-H1141	6832149	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS600R-402-LI2UPN8X-H1141	6832594	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136

Sensortechnik/Sensors/
Détecteurs

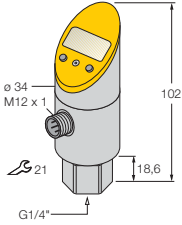

Drucksensor (starr) mit 1 Transistorausgang pnp/npn und 1 Spannungsausgang
Pressure sensor (rigid) with 1 transistor output pnp/npn and 1 voltage output
Capteur de pression (fixe) avec 1 sortie transistorisée pnp/npn et 1 sortie de tension













Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>G 1/4" male thread</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PS01VR-404-LUUPN8X-H1141	6832210	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001R-404-LUUPN8X-H1141	6832211	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001V-404-LUUPN8X-H1141	6832564	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS003V-404-LUUPN8X-H1141	6832565	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS010V-404-LUUPN8X-H1141	6832566	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS016V-404-LUUPN8X-H1141	6832567	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS025V-404-LUUPN8X-H1141	6832568	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS040V-404-LUUPN8X-H1141	6832569	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS100R-404-LUUPN8X-H1141	6832217	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS250R-404-LUUPN8X-H1141	6832218	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS400R-404-LUUPN8X-H1141	6832219	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS600R-404-LUUPN8X-H1141	6832570	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138

Sensortechnik/Sensors/
Détecteurs

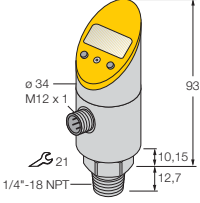

Drucksensor (starr) mit 1 Transistorausgang pnp/npn und 1 Spannungsausgang
Pressure sensor (rigid) with 1 transistor output pnp/npn and 1 voltage output
Capteur de pression (fixe) avec 1 sortie transistorisée pnp/npn et 1 sortie de tension













Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>G 1/4" female thread</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (☞ 806)
PS01VR-401-LUUPN8X-H1141	6832110	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001R-401-LUUPN8X-H1141	6832111	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001V-401-LUUPN8X-H1141	6832528	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS003V-401-LUUPN8X-H1141	6832529	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS010V-401-LUUPN8X-H1141	6832530	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS016V-401-LUUPN8X-H1141	6832531	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS025V-401-LUUPN8X-H1141	6832532	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS040V-401-LUUPN8X-H1141	6832533	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS100R-401-LUUPN8X-H1141	6832117	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS250R-401-LUUPN8X-H1141	6832118	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS400R-401-LUUPN8X-H1141	6832119	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS600R-401-LUUPN8X-H1141	6832534	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138

Sensortechnik/Sensors/
Détecteurs

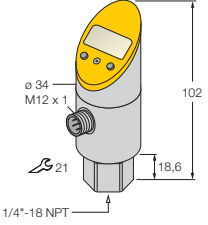

Drucksensor (starr) mit 1 Transistorausgang pnp/npn und 1 Spannungsausgang
Pressure sensor (rigid) with 1 transistor output pnp/npn and 1 voltage output
Capteur de pression (fixe) avec 1 sortie transistorisée pnp/npn et 1 sortie de tension



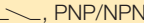





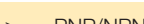
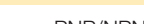


Abmessungen	Mech. und elektr. Anschluss	Nenndruck	Zulässiger Überdruck	Berstdruck	Genauigkeit
Dimensions	Mech. and electr. connection	Nominal pressure	Admissible overpressure	Burst pressure	Accuracy
Dimensions	Connexion mécanique et électrique	Pression nominale	Surpression admissible	Pression d'éclatement	Précision
		[bar]	[bar]	[bar]	
 <p>NPT 1/4" - 18 male thread</p> 	-1...0	3	3	0.5% of full scale	
	0...1	3	3	0.5% of full scale	
	-1...1	3	3	0.5% of full scale	
	-1...2.5	7	7	0.5% of full scale	
	-1...10	25	25	0.5% of full scale	
	-1...16	40	40	0.5% of full scale	
	-1...25	65	65	0.5% of full scale	
	-1...40	100	100	0.5% of full scale	
	0...100	250	250	0.5% of full scale	
	0...250	625	625	0.5% of full scale	
	0...400	900	900	0.5% of full scale	
	0...600	900	900	0.5% of full scale	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (☞ 806)
PS01VR-403-LUUPN8X-H1141	6832190	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001R-403-LUUPN8X-H1141	6832191	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001V-403-LUUPN8X-H1141	6832552	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS003V-403-LUUPN8X-H1141	6832553	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS010V-403-LUUPN8X-H1141	6832554	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS016V-403-LUUPN8X-H1141	6832555	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS025V-403-LUUPN8X-H1141	6832556	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS040V-403-LUUPN8X-H1141	6832557	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS100R-403-LUUPN8X-H1141	6832197	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS250R-403-LUUPN8X-H1141	6832198	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS400R-403-LUUPN8X-H1141	6832199	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS600R-403-LUUPN8X-H1141	6832558	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138

Sensortechnik/Sensors/
Détecteurs

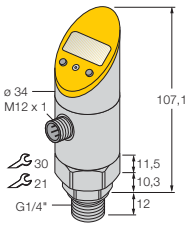

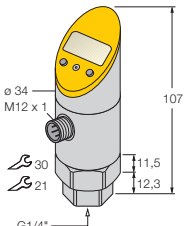

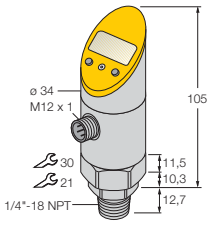

Drucksensor (starr) mit 1 Transistorausgang pnp/npn und 1 Spannungsausgang
Pressure sensor (rigid) with 1 transistor output pnp/npn and 1 voltage output
Capteur de pression (fixe) avec 1 sortie transistorisée pnp/npn et 1 sortie de tension

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p> NPT 1/4" - 18 female thread  </p>		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium-temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PS01VR-402-LUUPN8X-H1141	6832150	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001R-402-LUUPN8X-H1141	6832151	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001V-402-LUUPN8X-H1141	6832540	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS003V-402-LUUPN8X-H1141	6832541	 , PNP/NPN	Analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS010V-402-LUUPN8X-H1141	6832542	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS016V-402-LUUPN8X-H1141	6832543	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS025V-402-LUUPN8X-H1141	6832544	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS040V-402-LUUPN8X-H1141	6832545	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS100R-402-LUUPN8X-H1141	6832157	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS250R-402-LUUPN8X-H1141	6832158	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS400R-402-LUUPN8X-H1141	6832159	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS600R-402-LUUPN8X-H1141	6832546	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138

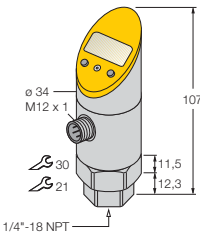

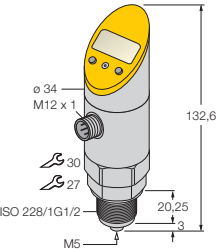

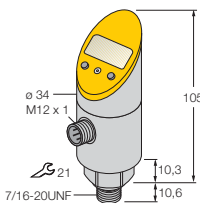

Sensortechnik/Sensors/
Détecteurs

Drucksensor (verdrehbar) mit 2 Transistorausgängen pnp/npn
Pressure sensor (rotatable) with 2 transistor outputs pnp/npn
Capteur de pression (pivotable) avec 2 sorties transistorisées pnp/npn

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>G 1/4" male thread</p> <p></p>		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale
 <p>G 1/4" female thread</p> <p></p>		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale
 <p>NPT 1/4" - 18 male thread</p> <p></p>		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

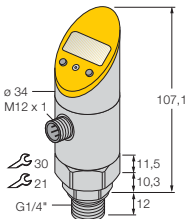

Typenbezeichnung	Ident-Nr.	Ausgang 1	Ausgang 2	Medium-temperatur	Elektrischer Anschluss
Type	Ident no.	Output 1	Output 2	Medium temperature	Electrical connection
Type	No. d'ident	Sortie 1	Sortie 2	Température milieu [°C]	Connexion électrique (EN 806)
PS01VR-504-2UPN8X-H1141	6832675	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001R-504-2UPN8X-H1141	6832676	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001V-504-2UPN8X-H1141	6832677	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS003V-504-2UPN8X-H1141	6832678	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS010V-504-2UPN8X-H1141	6832679	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS016V-504-2UPN8X-H1141	6832680	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS025V-504-2UPN8X-H1141	6832681	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS040V-504-2UPN8X-H1141	6832682	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS100R-504-2UPN8X-H1141	6832683	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS250R-504-2UPN8X-H1141	6832684	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS400R-504-2UPN8X-H1141	6832685	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS600R-504-2UPN8X-H1141	6832686	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS01VR-501-2UPN8X-H1141	6832624	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001R-501-2UPN8X-H1141	6832625	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001V-501-2UPN8X-H1141	6832626	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS003V-501-2UPN8X-H1141	6832627	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS010V-501-2UPN8X-H1141	6832628	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS016V-501-2UPN8X-H1141	6832629	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS025V-501-2UPN8X-H1141	6832630	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS040V-501-2UPN8X-H1141	6832631	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS100R-501-2UPN8X-H1141	6832632	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS250R-501-2UPN8X-H1141	6832633	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS400R-501-2UPN8X-H1141	6832634	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS600R-501-2UPN8X-H1141	6832635	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS01VR-503-2UPN8X-H1141	6832658	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001R-503-2UPN8X-H1141	6832659	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001V-503-2UPN8X-H1141	6832660	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS003V-503-2UPN8X-H1141	6832661	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS010V-503-2UPN8X-H1141	6832662	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS016V-503-2UPN8X-H1141	6832663	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS025V-503-2UPN8X-H1141	6832664	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS040V-503-2UPN8X-H1141	6832665	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS100R-503-2UPN8X-H1141	6832666	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS250R-503-2UPN8X-H1141	6832667	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS400R-503-2UPN8X-H1141	6832668	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS600R-503-2UPN8X-H1141	6832669	—, PNP/NPN	—, PNP/NPN	-40...+85	S136













Drucksensor (verdrehbar) mit 2 Transistorausgängen pnp/npn
Pressure sensor (rotatable) with 2 transistor outputs pnp/npn
Capteur de pression (pivotable) avec 2 sorties transistorisées pnp/npn

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenn- druck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berst- druck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>NPT 1/4" - 18 female thread</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale
 <p>G 1/2" male threaded manometer as per DIN 3852-E</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale
 <p>7/16-20 UNF</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (☞ 806)
PS01VR-502-2UPN8X-H1141	6832641	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001R-502-2UPN8X-H1141	6832642	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001V-502-2UPN8X-H1141	6832643	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS003V-502-2UPN8X-H1141	6832644	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS010V-502-2UPN8X-H1141	6832645	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS016V-502-2UPN8X-H1141	6832646	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS025V-502-2UPN8X-H1141	6832647	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS040V-502-2UPN8X-H1141	6832648	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS100R-502-2UPN8X-H1141	6832649	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS250R-502-2UPN8X-H1141	6832650	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS400R-502-2UPN8X-H1141	6832651	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS600R-502-2UPN8X-H1141	6832652	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS01VR-508-2UPN8X-H1141	6832709	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001R-508-2UPN8X-H1141	6832710	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001V-508-2UPN8X-H1141	6832711	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS003V-508-2UPN8X-H1141	6832712	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS010V-508-2UPN8X-H1141	6832713	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS016V-508-2UPN8X-H1141	6832714	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS025V-508-2UPN8X-H1141	6832715	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS040V-508-2UPN8X-H1141	6832716	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS100R-508-2UPN8X-H1141	6832717	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS250R-508-2UPN8X-H1141	6832718	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS400R-508-2UPN8X-H1141	6832719	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS600R-508-2UPN8X-H1141	6832720	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS01VR-505-2UPN8X-H1141	6832692	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001R-505-2UPN8X-H1141	6832693	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001V-505-2UPN8X-H1141	6832694	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS003V-505-2UPN8X-H1141	6832695	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS010V-505-2UPN8X-H1141	6832696	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS016V-505-2UPN8X-H1141	6832697	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS025V-505-2UPN8X-H1141	6832698	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS040V-505-2UPN8X-H1141	6832699	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS100R-505-2UPN8X-H1141	6832700	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS250R-505-2UPN8X-H1141	6832701	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS400R-505-2UPN8X-H1141	6832702	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS600R-505-2UPN8X-H1141	6832703	—, PNP/NPN	—, PNP/NPN	-40...+85	S136

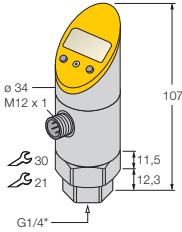

Drucksensor (verdrehbar) mit 2 Transistorausgängen pnp/npn – Ausgang 2 als Stromausgang
Pressure sensor (rotatable) with 2 transistor outputs pnp/npn – Output 2 as current output
Capteur de pression (pivot.) avec 2 sort. transistor. pnp/npn – Sortie 2 comme sort. de courant













Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nennndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>G 1/4" male thread</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PS01VR-504-LI2UPN8X-H1141	6832300	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001R-504-LI2UPN8X-H1141	6832301	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001V-504-LI2UPN8X-H1141	6832839	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS003V-504-LI2UPN8X-H1141	6832840	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS010V-504-LI2UPN8X-H1141	6832841	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS016V-504-LI2UPN8X-H1141	6832842	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS025V-504-LI2UPN8X-H1141	6832843	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS040V-504-LI2UPN8X-H1141	6832844	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS100R-504-LI2UPN8X-H1141	6832307	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS250R-504-LI2UPN8X-H1141	6832308	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS400R-504-LI2UPN8X-H1141	6832309	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS600R-504-LI2UPN8X-H1141	6832845	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136

Sensortechnik/Sensors/
Détecteurs

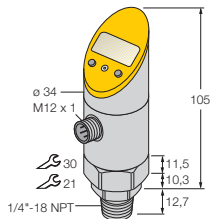

Drucksensor (verdrehbar) mit 2 Transistorausgängen pnp/npn – Ausgang 2 als Stromausgang
Pressure sensor (rotatable) with 2 transistor outputs pnp/npn – Output 2 as current output
Capteur de pression (pivot.) avec 2 sort. transistor. pnp/npn – Sortie 2 comme sort. de courant













Abmessungen	Mech. und elektr. Anschluss	Nenndruck	Zulässiger Überdruck	Berstdruck	Genauigkeit
Dimensions	Mech. and electr. connection	Nominal pressure	Admissible overpressure	Burst pressure	Accuracy
Dimensions	Connexion mécanique et électrique	Pression nominale	Surpression admissible	Pression d'éclatement	Précision
		[bar]	[bar]	[bar]	
	<p>G 1/4" female thread</p> 	-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium-temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PS01VR-501-LI2UPN8X-H1141	6832220	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001R-501-LI2UPN8X-H1141	6832221	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001V-501-LI2UPN8X-H1141	6832803	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS003V-501-LI2UPN8X-H1141	6832804	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS010V-501-LI2UPN8X-H1141	6832805	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS016V-501-LI2UPN8X-H1141	6832806	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS025V-501-LI2UPN8X-H1141	6832807	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS040V-501-LI2UPN8X-H1141	6832808	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS100R-501-LI2UPN8X-H1141	6832227	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS250R-501-LI2UPN8X-H1141	6832228	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS400R-501-LI2UPN8X-H1141	6832229	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS600R-501-LI2UPN8X-H1141	6832809	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136

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Détecteurs

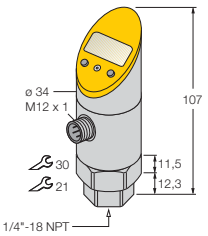

Drucksensor (verdrehbar) mit 2 Transistorausgängen pnp/npn – Ausgang 2 als Stromausgang
Pressure sensor (rotatable) with 2 transistor outputs pnp/npn – Output 2 as current output
Capteur de pression (pivot.) avec 2 sort. transistor. pnp/npn – Sortie 2 comme sort. de courant

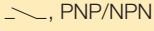

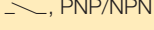

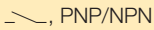

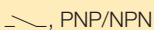



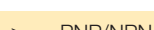
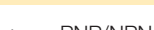
Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>NPT 1/4" - 18 male thread</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PS01VR-503-LI2UPN8X-H1141	6832280	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001R-503-LI2UPN8X-H1141	6832281	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001V-503-LI2UPN8X-H1141	6832827	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS003V-503-LI2UPN8X-H1141	6832828	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS010V-503-LI2UPN8X-H1141	6832829	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS016V-503-LI2UPN8X-H1141	6832830	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS025V-503-LI2UPN8X-H1141	6832831	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS040V-503-LI2UPN8X-H1141	6832832	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS100R-503-LI2UPN8X-H1141	6832287	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS250R-503-LI2UPN8X-H1141	6832288	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS400R-503-LI2UPN8X-H1141	6832289	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS600R-503-LI2UPN8X-H1141	6832833	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136

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Détecteurs

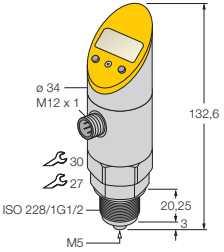
Drucksensor (verdrehbar) mit 2 Transistorausgängen pnp/npn – Ausgang 2 als Stromausgang
Pressure sensor (rotatable) with 2 transistor outputs pnp/npn – Output 2 as current output
Capteur de pression (pivot.) avec 2 sort. transistor. pnp/npn – Sortie 2 comme sort. de courant

Abmessungen	Mech. und elektr. Anschluss	Nenndruck	Zulässiger Überdruck	Berstdruck	Genauigkeit
Dimensions	Mech. and electr. connection	Nominal pressure	Admissible overpressure	Burst pressure	Accuracy
Dimensions	Connexion mécanique et électrique	Pression nominale	Surpression admissible	Pression d'éclatement	Précision
		[bar]	[bar]	[bar]	
 <p>NPT 1/4" - 18 female thread</p> <p></p>	-1...0	3	3	0.5% of full scale	
	0...1	3	3	0.5% of full scale	
	-1...1	3	3	0.5% of full scale	
	-1...2.5	7	7	0.5% of full scale	
	-1...10	25	25	0.5% of full scale	
	-1...16	40	40	0.5% of full scale	
	-1...25	65	65	0.5% of full scale	
	-1...40	100	100	0.5% of full scale	
	0...100	250	250	0.5% of full scale	
	0...250	625	625	0.5% of full scale	
	0...400	900	900	0.5% of full scale	
	0...600	900	900	0.5% of full scale	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PS01VR-502-LI2UPN8X-H1141	6832260	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001R-502-LI2UPN8X-H1141	6832261	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001V-502-LI2UPN8X-H1141	6832815	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS003V-502-LI2UPN8X-H1141	6832816	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS010V-502-LI2UPN8X-H1141	6832817	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS016V-502-LI2UPN8X-H1141	6832818	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS025V-502-LI2UPN8X-H1141	6832819	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS040V-502-LI2UPN8X-H1141	6832820	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS100R-502-LI2UPN8X-H1141	6832267	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS250R-502-LI2UPN8X-H1141	6832268	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS400R-502-LI2UPN8X-H1141	6832269	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS600R-502-LI2UPN8X-H1141	6832821	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136

Sensortechnik/Sensors/
Détecteurs

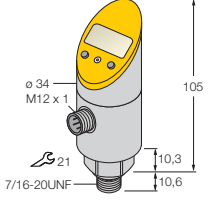

Drucksensor (verdrehbar) mit 2 Transistorausgängen pnp/npn – Ausgang 2 als Stromausgang
Pressure sensor (rotatable) with 2 transistor outputs pnp/npn – Output 2 as current output
Capteur de pression (pivot.) avec 2 sort. transistor. pnp/npn – Sortie 2 comme sort. de courant













Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Supression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>G 1/2" male threaded manometer as per DIN 3852-E</p>	<p>G 1/2" male threaded manometer as per DIN 3852-E</p> <p>□ →</p>	-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PS01VR-508-LI2UPN8X-H1141	6832340	—, PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001R-508-LI2UPN8X-H1141	6832341	—, PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001V-508-LI2UPN8X-H1141	6832867	—, PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS003V-508-LI2UPN8X-H1141	6832868	—, PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS010V-508-LI2UPN8X-H1141	6832869	—, PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS016V-508-LI2UPN8X-H1141	6832870	—, PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS025V-508-LI2UPN8X-H1141	6832871	—, PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS040V-508-LI2UPN8X-H1141	6832872	—, PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS100R-508-LI2UPN8X-H1141	6832347	—, PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS250R-508-LI2UPN8X-H1141	6832348	—, PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS400R-508-LI2UPN8X-H1141	6832349	—, PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS600R-508-LI2UPN8X-H1141	6832873	—, PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136

Sensortechnik/Sensors/
Détecteurs

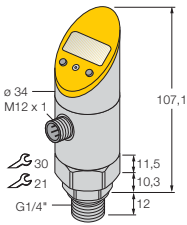

Drucksensor (verdrehbar) mit 2 Transistorausgängen pnp/npn – Ausgang 2 als Stromausgang
Pressure sensor (rotatable) with 2 transistor outputs pnp/npn – Output 2 as current output
Capteur de pression (pivot.) avec 2 sort. transistor. pnp/npn – Sortie 2 comme sort. de courant

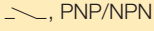

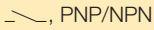







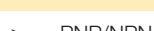
Abmessungen	Mech. und elektr. Anschluss	Nennndruck	Zulässiger Überdruck	Berstdruck	Genauigkeit
Dimensions	Mech. and electr. connection	Nominal pressure	Admissible overpressure	Burst pressure	Accuracy
Dimensions	Connexion mécanique et électrique	Pression nominale	Surpression admissible	Pression d'éclatement	Précision
		[bar]	[bar]	[bar]	
	7/16-20 UNF 	-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PS01VR-505-LI2UPN8X-H1141	6832851	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001R-505-LI2UPN8X-H1141	6832852	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001V-505-LI2UPN8X-H1141	6832853	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS003V-505-LI2UPN8X-H1141	6832854	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS010V-505-LI2UPN8X-H1141	6832447	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS016V-505-LI2UPN8X-H1141	6832855	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS025V-505-LI2UPN8X-H1141	6832856	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS040V-505-LI2UPN8X-H1141	6832857	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS100R-505-LI2UPN8X-H1141	6832858	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS250R-505-LI2UPN8X-H1141	6832859	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS400R-505-LI2UPN8X-H1141	6832860	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS600R-505-LI2UPN8X-H1141	6832861	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136

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Détecteurs

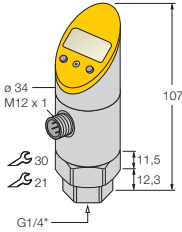

Drucksensor (verdrehbar) mit 1 Transistorausgang pnp/npn und 1 Spannungsausgang
Pressure sensor (rotatable) with 1 transistor output pnp/npn and 1 voltage output
Capteur de pression (pivotable) avec 1 sortie transistorisée pnp/npn et 1 sortie de tension



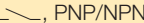





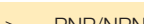
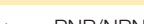
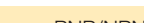

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>G 1/4" male thread</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (☞ 806)
PS01VR-504-LUUPN8X-H1141	6832310	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001R-504-LUUPN8X-H1141	6832311	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001V-504-LUUPN8X-H1141	6832762	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS003V-504-LUUPN8X-H1141	6832763	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS010V-504-LUUPN8X-H1141	6832764	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS016V-504-LUUPN8X-H1141	6832765	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS025V-504-LUUPN8X-H1141	6832766	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS040V-504-LUUPN8X-H1141	6832767	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS100R-504-LUUPN8X-H1141	6832317	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS250R-504-LUUPN8X-H1141	6832318	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS400R-504-LUUPN8X-H1141	6832319	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS600R-504-LUUPN8X-H1141	6832768	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138

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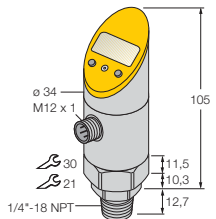

Drucksensor (verdrehbar) mit 1 Transistorausgang pnp/npn und 1 Spannungsausgang
Pressure sensor (rotatable) with 1 transistor output pnp/npn and 1 voltage output
Capteur de pression (pivotable) avec 1 sortie transistorisée pnp/npn et 1 sortie de tension

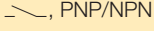

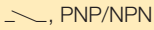

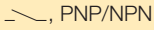

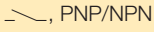

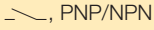

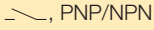

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p> G 1/4" female thread  </p>		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PS01VR-501-LUUPN8X-H1141	6832230	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001R-501-LUUPN8X-H1141	6832231	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001V-501-LUUPN8X-H1141	6832726	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS003V-501-LUUPN8X-H1141	6832727	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS010V-501-LUUPN8X-H1141	6832728	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS016V-501-LUUPN8X-H1141	6832729	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS025V-501-LUUPN8X-H1141	6832730	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS040V-501-LUUPN8X-H1141	6832731	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS100R-501-LUUPN8X-H1141	6832237	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS250R-501-LUUPN8X-H1141	6832238	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS400R-501-LUUPN8X-H1141	6832239	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS600R-501-LUUPN8X-H1141	6832732	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138

Sensortechnik/Sensors/
Détecteurs

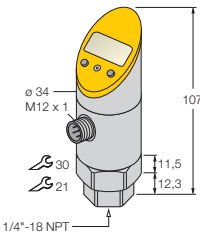

Drucksensor (verdrehbar) mit 1 Transistorausgang pnp/npn und 1 Spannungsausgang
Pressure sensor (rotatable) with 1 transistor output pnp/npn and 1 voltage output
Capteur de pression (pivotable) avec 1 sortie transistorisée pnp/npn et 1 sortie de tension

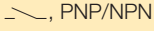

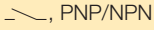

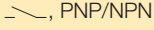

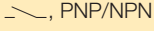


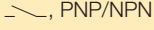

Abmessungen	Mech. und elektr. Anschluss	Nenndruck	Zulässiger Überdruck	Berstdruck	Genauigkeit
Dimensions	Mech. and electr. connection	Nominal pressure	Admissible overpressure	Burst pressure	Accuracy
Dimensions	Connexion mécanique et électrique	Pression nominale	Surpression admissible	Pression d'éclatement	Précision
		[bar]	[bar]	[bar]	
 <p>NPT 1/4" - 18 male thread</p> 	-1...0	3	3	0.5% of full scale	
	0...1	3	3	0.5% of full scale	
	-1...1	3	3	0.5% of full scale	
	-1...2.5	7	7	0.5% of full scale	
	-1...10	25	25	0.5% of full scale	
	-1...16	40	40	0.5% of full scale	
	-1...25	65	65	0.5% of full scale	
	-1...40	100	100	0.5% of full scale	
	0...100	250	250	0.5% of full scale	
	0...250	625	625	0.5% of full scale	
	0...400	900	900	0.5% of full scale	
	0...600	900	900	0.5% of full scale	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (☞ 806)
PS01VR-503-LUUPN8X-H1141	6832290	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001R-503-LUUPN8X-H1141	6832291	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001V-503-LUUPN8X-H1141	6832750	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS003V-503-LUUPN8X-H1141	6832751	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS010V-503-LUUPN8X-H1141	6832752	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS016V-503-LUUPN8X-H1141	6832753	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS025V-503-LUUPN8X-H1141	6832754	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS040V-503-LUUPN8X-H1141	6832755	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS100R-503-LUUPN8X-H1141	6832297	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS250R-503-LUUPN8X-H1141	6832298	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS400R-503-LUUPN8X-H1141	6832299	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS600R-503-LUUPN8X-H1141	6832756	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138

Sensortechnik/Sensors/
Détecteurs

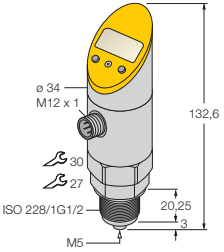

Drucksensor (verdrehbar) mit 1 Transistorausgang pnp/npn und 1 Spannungsausgang
Pressure sensor (rotatable) with 1 transistor output pnp/npn and 1 voltage output
Capteur de pression (pivotable) avec 1 sortie transistorisée pnp/npn et 1 sortie de tension

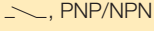

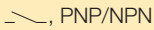

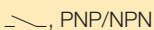

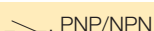

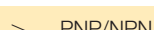

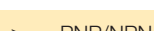
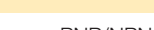
Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>NPT 1/4" - 18 female thread</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (☞ 806)
PS01VR-502-LUUPN8X-H1141	6832270	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001R-502-LUUPN8X-H1141	6832271	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001V-502-LUUPN8X-H1141	6832738	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS003V-502-LUUPN8X-H1141	6832739	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS010V-502-LUUPN8X-H1141	6832740	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS016V-502-LUUPN8X-H1141	6832741	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS025V-502-LUUPN8X-H1141	6832742	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS040V-502-LUUPN8X-H1141	6832743	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS100R-502-LUUPN8X-H1141	6832277	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS250R-502-LUUPN8X-H1141	6832278	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS400R-502-LUUPN8X-H1141	6832279	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS600R-502-LUUPN8X-H1141	6832744	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138

Sensortechnik/Sensors/
Détecteurs

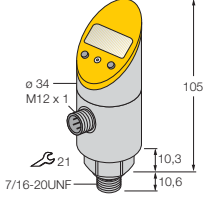

Drucksensor (verdrehbar) mit 1 Transistorausgang pnp/npn und 1 Spannungsausgang
Pressure sensor (rotatable) with 1 transistor output pnp/npn and 1 voltage output
Capteur de pression (pivotable) avec 1 sortie transistorisée pnp/npn et 1 sortie de tension





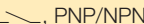



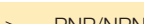
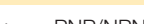
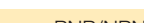

Abmessungen	Mech. und elektr. Anschluss	Nenndruck	Zulässiger Überdruck	Berstdruck	Genauigkeit
Dimensions	Mech. and electr. connection	Nominal pressure	Admissible overpressure	Burst pressure	Accuracy
Dimensions	Connexion mécanique et électrique	Pression nominale	Surpression admissible	Pression d'éclatement	Précision
		[bar]	[bar]	[bar]	
 <p>G 1/2" male threaded manometer as per DIN 3852-E</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (IEC 806)
PS01VR-508-LUUPN8X-H1141	6832350	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001R-508-LUUPN8X-H1141	6832351	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001V-508-LUUPN8X-H1141	6832791	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS003V-508-LUUPN8X-H1141	6832792	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS010V-508-LUUPN8X-H1141	6832793	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS016V-508-LUUPN8X-H1141	6832794	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS025V-508-LUUPN8X-H1141	6832795	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS040V-508-LUUPN8X-H1141	6832796	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS100R-508-LUUPN8X-H1141	6832357	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS250R-508-LUUPN8X-H1141	6832358	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS400R-508-LUUPN8X-H1141	6832359	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS600R-508-LUUPN8X-H1141	6832797	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138

Sensortechnik/Sensors/
Détecteurs

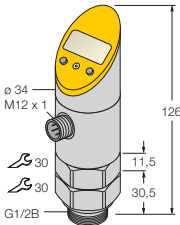
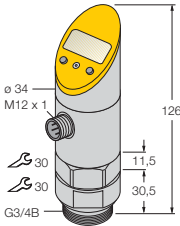
Drucksensor (verdrehbar) mit 1 Transistorausgang pnp/npn und 1 Spannungsausgang
Pressure sensor (rotatable) with 1 transistor output pnp/npn and 1 voltage output
Capteur de pression (pivotable) avec 1 sortie transistorisée pnp/npn et 1 sortie de tension

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>7/16-20 UNF </p>		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale
		0...600	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (IEC 806)
PS01VR-505-LUUPN8X-H1141	6832774	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001R-505-LUUPN8X-H1141	6832775	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001V-505-LUUPN8X-H1141	6832776	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS003V-505-LUUPN8X-H1141	6832777	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS010V-505-LUUPN8X-H1141	6832778	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS016V-505-LUUPN8X-H1141	6832779	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS025V-505-LUUPN8X-H1141	6832780	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS040V-505-LUUPN8X-H1141	6832781	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS100R-505-LUUPN8X-H1141	6832782	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS250R-505-LUUPN8X-H1141	6832783	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS400R-505-LUUPN8X-H1141	6832784	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS600R-505-LUUPN8X-H1141	6832785	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138

Sensortechnik/Sensors/
Détecteurs

Drucksensor (frontbündig) mit 2 Transistorausgängen pnp/npn
Pressure sensor (front-flush) with 2 transistor outputs pnp/npn
Capteur de pression (membrane affleurante) avec 2 sorties transistorisées pnp/npn

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécanique et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>G 1/2" front-flush</p>	<p>-1...10</p> <p>-1...16</p> <p>-1...25</p> <p>-1...40</p> <p>0...100</p> <p>0...250</p> <p>0...400</p>	25	25	0.5% of full scale	
		40	40	0.5% of full scale	
		65	65	0.5% of full scale	
		100	100	0.5% of full scale	
		250	250	0.5% of full scale	
		625	625	0.5% of full scale	
		900	900	0.5% of full scale	
 <p>G 3/4" front-flush</p>	<p>-1...0</p> <p>0...1</p> <p>-1...1</p> <p>-1...2.5</p> <p>-1...10</p> <p>-1...16</p> <p>-1...25</p> <p>-1...40</p> <p>0...100</p> <p>0...250</p> <p>0...400</p>	3	3	0.5% of full scale	
		3	3	0.5% of full scale	
		3	3	0.5% of full scale	
		7	7	0.5% of full scale	
		25	25	0.5% of full scale	
		40	40	0.5% of full scale	
		65	65	0.5% of full scale	
		100	100	0.5% of full scale	
		250	250	0.5% of full scale	
		625	625	0.5% of full scale	
		900	900	0.5% of full scale	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (IEC 806)
PS010V-609-2UPN8X-H1141	6833020	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS016V-609-2UPN8X-H1141	6833021	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS025V-609-2UPN8X-H1141	6833022	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS040V-609-2UPN8X-H1141	6833023	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS100R-609-2UPN8X-H1141	6833024	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS250R-609-2UPN8X-H1141	6833025	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS400R-609-2UPN8X-H1141	6833026	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS01VR-606-2UPN8X-H1141	6833054	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001R-606-2UPN8X-H1141	6833055	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS001V-606-2UPN8X-H1141	6833056	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS003V-606-2UPN8X-H1141	6833057	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS010V-606-2UPN8X-H1141	6833058	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS016V-606-2UPN8X-H1141	6833059	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS025V-606-2UPN8X-H1141	6833060	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS040V-606-2UPN8X-H1141	6833061	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS100R-606-2UPN8X-H1141	6833062	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS250R-606-2UPN8X-H1141	6833063	—, PNP/NPN	—, PNP/NPN	-40...+85	S136
PS400R-606-2UPN8X-H1141	6833064	—, PNP/NPN	—, PNP/NPN	-40...+85	S136

Sensortechnik/Sensors/
Détecteurs

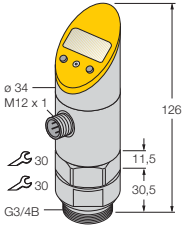
Drucksensor (frontbündig) mit 2 Transistorausgängen pnp/npn – Ausgang 2 als Stromausgang
Pressure sensor (front-flush) with 2 transistor outputs pnp/npn – Output 2 as current output
Capt. de press. (memb. affleur.) avec 2 sort. transistor. pnp/npn - Sort. 2 comme sort. de courant












Abmessungen	Mech. und elektr. Anschluss	Nenndruck	Zulässiger Überdruck	Berstdruck	Genauigkeit
Dimensions	Mech. and electr. connection	Nominal pressure	Admissible overpressure	Burst pressure	Accuracy
Dimensions	Connexion mécanique et électrique	Pression nominale	Surpression admissible	Pression d'éclatement	Précision
		[bar]	[bar]	[bar]	
<p>G 1/2" front-flush</p>		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (IEC 806)
PS010V-609-LI2UPN8X-H1141	6833047	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS016V-609-LI2UPN8X-H1141	6833048	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS025V-609-LI2UPN8X-H1141	6833049	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS040V-609-LI2UPN8X-H1141	6833050	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS100R-609-LI2UPN8X-H1141	6832446	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS250R-609-LI2UPN8X-H1141	6833052	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS400R-609-LI2UPN8X-H1141	6833053	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136

Sensortechnik/Sensors/
DéTECTEURS

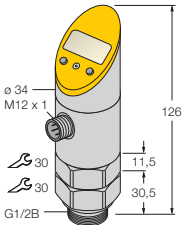
Drucksensor (frontbündig) mit 2 Transistorausgängen pnp/npn – Ausgang 2 als Stromausgang
Pressure sensor (front-flush) with 2 transistor outputs pnp/npn – Output 2 as current output
Capt. de press. (memb. affleur.) avec 2 sort. transistor. pnp/npn - Sort. 2 comme sort. de courant

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>G 3/4" front-flush</p>		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (IEC 806)
PS01VR-606-LI2UPN8X-H1141	6832380	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001R-606-LI2UPN8X-H1141	6832381	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS001V-606-LI2UPN8X-H1141	6833040	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS003V-606-LI2UPN8X-H1141	6833041	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS010V-606-LI2UPN8X-H1141	6833042	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS016V-606-LI2UPN8X-H1141	6833043	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS025V-606-LI2UPN8X-H1141	6833044	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS040V-606-LI2UPN8X-H1141	6833045	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS100R-606-LI2UPN8X-H1141	6832387	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS250R-606-LI2UPN8X-H1141	6832388	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136
PS400R-606-LI2UPN8X-H1141	6832389	 , PNP/NPN	analog or switching output PNP/NPN programmable, 4...20/ 0...20/ 20...4/ 20...0 mA	-40...+85	S136

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Détecteurs

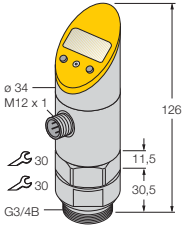

Drucksensor (frontbündig) mit 1 Transistorausgang pnp/npn und 1 Spannungsausgang
Pressure sensor (front-flush) with 1 transistor output pnp/npn and 1 voltage output
Capt. de pression (membrane affleurante) avec 1 sort. transistor. pnp/npn et 1 sort. de tension


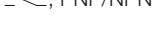
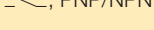


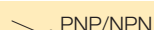

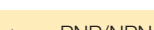
Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécanique et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>G 1/2" front-flush</p>		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (IEC 806)
PS010V-609-LUUPN8X-H1141	6833033	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS016V-609-LUUPN8X-H1141	6833034	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS025V-609-LUUPN8X-H1141	6833035	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS040V-609-LUUPN8X-H1141	6833036	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS100R-609-LUUPN8X-H1141	6833037	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS250R-609-LUUPN8X-H1141	6833038	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS400R-609-LUUPN8X-H1141	6833039	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138

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Détecteurs

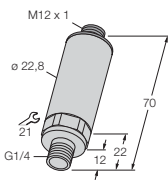

Drucksensor (frontbündig) mit 1 Transistorausgang pnp/npn und 1 Spannungsausgang
Pressure sensor (front-flush) with 1 transistor output pnp/npn and 1 voltage output
Capt. de pression (membrane affleurante) avec 1 sort. transistor. pnp/npn et 1 sort. de tension

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>G 3/4" front-flush</p> 		-1...0	3	3	0.5% of full scale
		0...1	3	3	0.5% of full scale
		-1...1	3	3	0.5% of full scale
		-1...2.5	7	7	0.5% of full scale
		-1...10	25	25	0.5% of full scale
		-1...16	40	40	0.5% of full scale
		-1...25	65	65	0.5% of full scale
		-1...40	100	100	0.5% of full scale
		0...100	250	250	0.5% of full scale
		0...250	625	625	0.5% of full scale
		0...400	900	900	0.5% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (IEC 806)
PS01VR-606-LUUPN8X-H1141	6832390	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001R-606-LUUPN8X-H1141	6832391	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS001V-606-LUUPN8X-H1141	6833027	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS003V-606-LUUPN8X-H1141	6833028	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS010V-606-LUUPN8X-H1141	6833029	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS016V-606-LUUPN8X-H1141	6833030	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS025V-606-LUUPN8X-H1141	6833031	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS040V-606-LUUPN8X-H1141	6833032	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS100R-606-LUUPN8X-H1141	6832397	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS250R-606-LUUPN8X-H1141	6832398	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138
PS400R-606-LUUPN8X-H1141	6832399	 , PNP/NPN	analog output, 0...10 V /0...5 V/1...6 V/10...0 V /5...0 V/6...1 V	-40...+85	S138

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Détecteurs

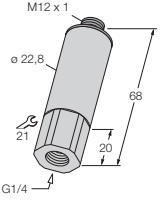

Drucktransmitter mit Stromausgang (2-Leiter)
Pressure transmitter with current output (2-wire)
Transmetteur de pression avec sortie de courant (2 fils)

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>G 1/4" male thread</p> 		-1...0	3	3	0.3 % of full scale
		0...1	3	3	0.3 % of full scale
		0...1.6	5	5	0.3 % of full scale
		0...2.5	7	7	0.3 % of full scale
		0...4	12	12	0.3 % of full scale
		0...6	15	15	0.3 % of full scale
		0...10	25	25	0.3 % of full scale
		0...16	40	40	0.3 % of full scale
		0...25	65	65	0.3 % of full scale
		0...40	100	100	0.3 % of full scale
		0...60	150	150	0.3 % of full scale
		0...100	250	250	0.3 % of full scale
		0...160	400	400	0.3 % of full scale
		0...250	625	625	0.3 % of full scale
		0...400	900	900	0.3 % of full scale
	0...600	900	900	0.3 % of full scale	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang Output Serie	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PT01VR-14-LI3-H1131	6831400	4...20 mA (2-wire), analog output	-40...+125	S106
PT001R-14-LI3-H1131	6831401	4...20 mA (2-wire), analog output	-40...+125	S106
PT002R-14-LI3-H1131	6831402	4...20 mA (2-wire), analog output	-40...+125	S106
PT003R-14-LI3-H1131	6831403	4...20 mA (2-wire), analog output	-40...+125	S106
PT004R-14-LI3-H1131	6831404	4...20 mA (2-wire), analog output	-40...+125	S106
PT006R-14-LI3-H1131	6831405	4...20 mA (2-wire), analog output	-40...+125	S106
PT010R-14-LI3-H1131	6831406	4...20 mA (2-wire), analog output	-40...+125	S106
PT016R-14-LI3-H1131	6831407	4...20 mA (2-wire), analog output	-40...+125	S106
PT025R-14-LI3-H1131	6831408	4...20 mA (2-wire), analog output	-40...+125	S106
PT040R-14-LI3-H1131	6831409	4...20 mA (2-wire), analog output	-40...+125	S106
PT060R-14-LI3-H1131	6831410	4...20 mA (2-wire), analog output	-40...+125	S106
PT100R-14-LI3-H1131	6831411	4...20 mA (2-wire), analog output	-40...+125	S106
PT160R-14-LI3-H1131	6831412	4...20 mA (2-wire), analog output	-40...+125	S106
PT250R-14-LI3-H1131	6831413	4...20 mA (2-wire), analog output	-40...+125	S106
PT400R-14-LI3-H1131	6831414	4...20 mA (2-wire), analog output	-40...+125	S106
PT600R-14-LI3-H1131	6831415	4...20 mA (2-wire), analog output	-40...+125	S106

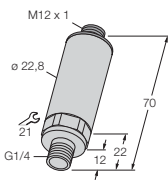

**Sensortechnik/Sensors/
Détecteurs**

Drucktransmitter mit Stromausgang (2-Leiter)
Pressure transmitter with current output (2-wire)
Transmetteur de pression avec sortie de courant (2 fils)

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>M12 x 1 \varnothing 22,8 21 68 20 G1/4</p>	<p>G 1/4" female thread</p> 	0...1	3	3	0.3 % of full scale
		0...1.6	5	5	0.3 % of full scale
		0...2.5	7	7	0.3 % of full scale
		0...4	12	12	0.3 % of full scale
		0...6	15	15	0.3 % of full scale
		0...10	25	25	0.3 % of full scale
		0...16	40	40	0.3 % of full scale
		0...25	65	65	0.3 % of full scale
		0...40	100	100	0.3 % of full scale
		0...60	150	150	0.3 % of full scale
		0...100	250	250	0.3 % of full scale
		0...160	400	400	0.3 % of full scale
		0...250	625	625	0.3 % of full scale
		0...400	900	900	0.3 % of full scale
0...600	900	900	0.3 % of full scale		

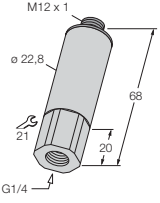

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang Output Serie	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PT001R-11-LI3-H1131	6831434	4...20 mA (2-wire), analog output	-40...+125	S106
PT002R-11-LI3-H1131	6831435	4...20 mA (2-wire), analog output	-40...+125	S106
PT003R-11-LI3-H1131	6831436	4...20 mA (2-wire), analog output	-40...+125	S106
PT004R-11-LI3-H1131	6831437	4...20 mA (2-wire), analog output	-40...+125	S106
PT006R-11-LI3-H1131	6831438	4...20 mA (2-wire), analog output	-40...+125	S106
PT010R-11-LI3-H1131	6831432	4...20 mA (2-wire), analog output	-40...+125	S106
PT016R-11-LI3-H1131	6831439	4...20 mA (2-wire), analog output	-40...+125	S106
PT025R-11-LI3-H1131	6831440	4...20 mA (2-wire), analog output	-40...+125	S106
PT040R-11-LI3-H1131	6831441	4...20 mA (2-wire), analog output	-40...+125	S106
PT060R-11-LI3-H1131	6831442	4...20 mA (2-wire), analog output	-40...+125	S106
PT100R-11-LI3-H1131	6831443	4...20 mA (2-wire), analog output	-40...+125	S106
PT160R-11-LI3-H1131	6831444	4...20 mA (2-wire), analog output	-40...+125	S106
PT250R-11-LI3-H1131	6831445	4...20 mA (2-wire), analog output	-40...+125	S106
PT400R-11-LI3-H1131	6831446	4...20 mA (2-wire), analog output	-40...+125	S106
PT600R-11-LI3-H1131	6831447	4...20 mA (2-wire), analog output	-40...+125	S106

Drucktransmitter mit Spannungsausgang (3-Leiter)
Pressure transmitter with voltage output (3-wire)
Transmetteur de pression avec sortie de tension (3 fils)

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>G 1/4" male thread</p> 		-1...0	3	3	0.3 % of full scale
		0...1	3	3	0.3 % of full scale
		0...1.6	5	5	0.3 % of full scale
		0...2.5	7	7	0.3 % of full scale
		0...4	12	12	0.3 % of full scale
		0...6	15	15	0.3 % of full scale
		0...10	25	25	0.3 % of full scale
		0...16	40	40	0.3 % of full scale
		0...25	65	65	0.3 % of full scale
		0...40	100	100	0.3 % of full scale
		0...60	150	150	0.3 % of full scale
		0...100	250	250	0.3 % of full scale
		0...160	400	400	0.3 % of full scale
		0...250	625	625	0.3 % of full scale
		0...400	900	900	0.3 % of full scale
	0...600	900	900	0.3 % of full scale	

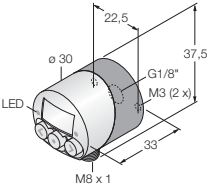

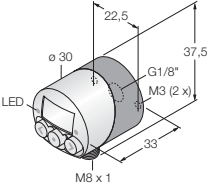

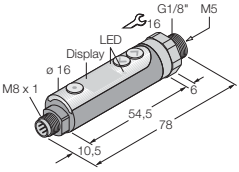

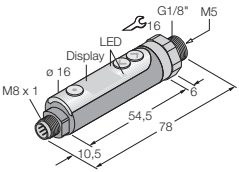

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang Output Serie	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PT01VR-14-LU2-H1131	6831416	0...10 V (3-wire), analog output	-40...+125	S124
PT001R-14-LU2-H1131	6831417	0...10 V (3-wire), analog output	-40...+125	S124
PT002R-14-LU2-H1131	6831418	0...10 V (3-wire), analog output	-40...+125	S124
PT003R-14-LU2-H1131	6831419	0...10 V (3-wire), analog output	-40...+125	S124
PT004R-14-LU2-H1131	6831420	0...10 V (3-wire), analog output	-40...+125	S124
PT006R-14-LU2-H1131	6831421	0...10 V (3-wire), analog output	-40...+125	S124
PT010R-14-LU2-H1131	6831422	0...10 V (3-wire), analog output	-40...+125	S124
PT016R-14-LU2-H1131	6831423	0...10 V (3-wire), analog output	-40...+125	S124
PT025R-14-LU2-H1131	6831424	0...10 V (3-wire), analog output	-40...+125	S124
PT040R-14-LU2-H1131	6831425	0...10 V (3-wire), analog output	-40...+125	S124
PT060R-14-LU2-H1131	6831426	0...10 V (3-wire), analog output	-40...+125	S124
PT100R-14-LU2-H1131	6831427	0...10 V (3-wire), analog output	-40...+125	S124
PT160R-14-LU2-H1131	6831428	0...10 V (3-wire), analog output	-40...+125	S124
PT250R-14-LU2-H1131	6831429	0...10 V (3-wire), analog output	-40...+125	S124
PT400R-14-LU2-H1131	6831430	0...10 V (3-wire), analog output	-40...+125	S124
PT600R-14-LU2-H1131	6831431	0...10 V (3-wire), analog output	-40...+125	S124

Drucktransmitter mit Spannungsausgang (3-Leiter)
Pressure transmitter with voltage output (3-wire)
Transmetteur de pression avec sortie de tension (3 fils)

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
 <p>M12 x 1 \varnothing 22,8 21 68 20 G1/4</p>	<p>G 1/4" female thread</p> 	-1...0	3	3	0.3 % of full scale
		0...1	3	3	0.3 % of full scale
		0...1.6	5	5	0.3 % of full scale
		0...2.5	7	7	0.3 % of full scale
		0...4	12	12	0.3 % of full scale
		0...6	15	15	0.3 % of full scale
		0...10	25	25	0.3 % of full scale
		0...16	40	40	0.3 % of full scale
		0...25	65	65	0.3 % of full scale
		0...40	100	100	0.3 % of full scale
		0...60	150	150	0.3 % of full scale
		0...100	250	250	0.3 % of full scale
		0...160	400	400	0.3 % of full scale
		0...250	625	625	0.3 % of full scale
		0...400	900	900	0.3 % of full scale
0...600	900	900	0.3 % of full scale		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang Output Serie	Medium- temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (EN 806)
PT01VR-11-LU2-H1131	6831454	0...10 V (3-wire), analog output	-40...+125	S124
PT001R-11-LU2-H1131	6831483	0...10 V (3-wire), analog output	-40...+125	S124
PT002R-11-LU2-H1131	6831484	0...10 V (3-wire), analog output	-40...+125	S124
PT003R-11-LU2-H1131	6831485	0...10 V (3-wire), analog output	-40...+125	S124
PT004R-11-LU2-H1131	6831486	0...10 V (3-wire), analog output	-40...+125	S124
PT006R-11-LU2-H1131	6831452	0...10 V (3-wire), analog output	-40...+125	S124
PT010R-11-LU2-H1131	6831487	0...10 V (3-wire), analog output	-40...+125	S124
PT016R-11-LU2-H1131	6831488	0...10 V (3-wire), analog output	-40...+125	S124
PT025R-11-LU2-H1131	6831489	0...10 V (3-wire), analog output	-40...+125	S124
PT040R-11-LU2-H1131	6831490	0...10 V (3-wire), analog output	-40...+125	S124
PT060R-11-LU2-H1131	6831491	0...10 V (3-wire), analog output	-40...+125	S124
PT100R-11-LU2-H1131	6831492	0...10 V (3-wire), analog output	-40...+125	S124
PT160R-11-LU2-H1131	6831453	0...10 V (3-wire), analog output	-40...+125	S124
PT250R-11-LU2-H1131	6831451	0...10 V (3-wire), analog output	-40...+125	S124
PT400R-11-LU2-H1131	6831493	0...10 V (3-wire), analog output	-40...+125	S124
PT600R-11-LU2-H1131	6831494	0...10 V (3-wire), analog output	-40...+125	S124

Drucksensor mit 2 Transistorausgängen pnp
Pressure sensor with 2 transistor outputs pnp
Capteur de pression avec 2 sorties transistorisées pnp

Abmessungen Dimensions Dimensions	Mech. und elektr. Anschluss Mech. and electr. connection Connexion mécani- que et électrique	Nenndruck Nominal pressure Pression nominale [bar]	Zulässiger Überdruck Admissible overpressure Surpression admissible [bar]	Berstdruck Burst pressure Pression d'éclatement [bar]	Genauigkeit Accuracy Précision
	G1/8 female thread 	-1...0	5	5	1% of full scale
		0...10	16	16	1% of full scale
	NPT1/8" male thread 	-1...0	5	5	1% of full scale
		0...10	16	16	1% of full scale
	G1/8 male thread 	-1...0	5	5	1% of full scale
		0...10	16	16	1% of full scale
	NPT1/8" male thread 	-1...0	5	5	1% of full scale
		0...10	16	16	1% of full scale

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Ausgang 1 Output 1 Sortie 1	Ausgang 2 Output 2 Sortie 2	Medium-temperatur Medium temperature Température milieu [°C]	Elektrischer Anschluss Electrical connection Connexion électrique (IEC 806)
PK01VR-N12-2UP8X-V1141	6833000	switching output, pnp	switching output, pnp	0...+50	S182
PK010R-N12-2UP8X-V1141	6833001	switching output, pnp	switching output, pnp	0...+50	S182
PK01VR-N14-2UP8X-V1141	6833002	switching output, pnp	switching output, pnp	0...+50	S182
PK010R-N14-2UP8X-V1141	6833003	switching output, pnp	switching output, pnp	0...+50	S182
PK01VR-P13-2UP8X-V1141	6833004	switching output, pnp	switching output, pnp	0...+50	S182
PK010R-P13-2UP8X-V1141	6833005	switching output, pnp	switching output, pnp	0...+50	S182
PK01VR-P14-2UP8X-V1141	6833006	switching output, pnp	switching output, pnp	0...+50	S182
PK010R-P14-2UP8X-V1141	6833007	switching output, pnp	switching output, pnp	0...+50	S182

Sensortechnik/Sensors/
Détecteurs

Temperatursensoren

Die Erfassung der Temperatur zählt zu den wichtigsten Aufgaben in der Prozess- und Fertigungsindustrie. Neben den bekannten Kenngrößen wie Genauigkeit oder Reproduzierbarkeit sind die Schnittstellen zum Prozess und zum Bediener sehr wichtige Kriterien. Die neuen Temperatursensoren der Serie TS400 und TS500 von TURCK setzen hier neue Maßstäbe.

Höchster Bedienkomfort

Die neue Generation bietet neben zwei Tastern zum schnellen Menü-Scrolling eine versenkte Taste zum sicheren Abspeichern veränderter Werte.

Höchste Flexibilität in der Montage

Ein drehbarer Sensorkörper mit abge-schrägtem Display, dessen Anzeige sich per Software um 180° drehen lässt, bietet alle Möglichkeiten des Einbaus.

Höchste Genauigkeit

0,2 K beim Temperatursensor erlauben ein sehr großes Einsatzspektrum mit nur wenigen Varianten.

Höchste Anlagensicherheit

Das robuste Design mit Edelstahlgehäuse, die hohe EMV-Festigkeit und Schutzart IP67 sorgen für höchste Betriebs-sicherheit.

Einer der wichtigsten Aspekte bei der Auswahl eines intelligenten Temperatursensors ist der hohe Bedienkomfort beim Programmieren. Über eine klare Menüstruktur lassen sich mit wenigen Schritten die Werte für Hin- und Rückschaltpunkte, Ausgangsfunktion, Analogbereiche und eine Vielzahl von Sonderfunktionen wie Schaltverzögerungen, Drehung der Anzeigerichtung oder Druckspitzenspeicher verändern. Zusätzliche externe Geräte, wie z. B. ein Laptop oder ein spezielles Programmiergerät, werden nicht benötigt.

Die Temperatursensoren der Serie TS400/500 lassen sich komfortabel mit drei Drucktastern programmieren. Die beiden Taster „Mode“ und „Set“, mit denen die verschiedenen Parameter ausgewählt und eingestellt werden, sind ohne Werkzeug einfach mit dem Finger zu bedienen.

Zur besseren Bedienung lassen sich die Werte dabei nach oben und nach unten scrollen. Wenn der eingestellte Wert abgespeichert und damit die Programmierung geändert werden soll, muss die Taste „Enter“ gedrückt werden. Diese Taste ist versenkt angelegt und nur mit einem einfachen Werkzeug wie einem Kugelschreiber zu betätigen.

Temperature sensors

The detection of temperature is one of the most important tasks in the processing and manufacturing industries. In addition to known factors such as accuracy or repeatability, the interfaces to the process and to the operator are also very important criteria. The new TS400 and TS500 series temperature sensors from TURCK set new standards in this area.

Highest levels of operating comfort

In addition to the two buttons for quick menu scrolling, the new generation also provides a recessed button for saving changed and modified values.

Highest levels of flexibility with mounting

A rotating sensor body with a tilted display which can be rotated by 180° using software, provides all the installation options.

Highest levels of precision

0.2 K with the temperature sensor enables a very large spectrum of applications with just a few variants.

Highest levels of system reliability

The robust design with a stainless steel housing and the high level of EMC immunity and IP67 degree of protection assure the highest levels of operational safety.



Détecteurs de température

One of the most important aspects with the selection of an intelligent temperature sensor is the level of user friendliness during programming. With the clear menu structure it is possible to set the values for the setting points, output function, analogue ranges and a whole range of special functions such as switch delays, rotation and display direction or peak temperature memory. Additional external devices such as a laptop or a special programming device are not required.

The temperature sensors of the TS400/500 series can be easily programmed with three push buttons. Both the "Mode" and "Set" buttons which can be used to select and set different parameters, can be operated with fingers without tools.

It is possible to scroll up and down through the values for improved operation. If the set value is to be saved and the programming is to be changed, the "Enter" button must be pressed. This button is recessed and can only be operated using a simple tool such as a ballpoint pen.

La détection de la température compte parmi les tâches les plus importantes dans l'industrie de process et de production. Sauf les paramètres connus tels que la précision ou la reproductibilité, les interfaces au process et à l'opérateur sont des critères très importants. Les nouveaux détecteurs de température de la série TS400 et TS500 de TURCK établissent de nouveaux standards.

Très simple à utiliser

Cette nouvelle génération est dotée de deux boutons-poussoirs afin de faire défiler rapidement le menu, ainsi que d'un bouton encastré pour un stockage en toute sécurité des valeurs modifiées.

Une flexibilité de montage optimale

Le corps à rotation libre du détecteur doté d'un affichage incliné que vous pouvez faire pivoter d'un angle de 180° via un logiciel, permet des options de montage variées.

Une précision maximale

Avec un degré de précision de 0,2 K, il suffit de quelques modèles de détecteurs pour couvrir une large gamme d'applications.

Une sécurité optimale du système

Le boîtier robuste en acier inoxydable, la résistance CEM excellente et le degré de protection IP67 assurent une sécurité optimale du système.

Une programmation pratique et simple est l'un des aspects les plus importants lors qu'on choisit un détecteur de température intelligent. Grâce à une structure de menu simple, il suffit de quelques étapes pour configurer les paramètres suivants: le point d'enclenchement et de déclenchement, la fonction de sortie, la gamme analogique et un éventail de fonctions spéciales telles que le délai de commutation, la rotation de l'affichage ou la modification de la mémoire de la pointe de pression. Des appareils externes supplémentaires, comme un ordinateur portatif ou un appareil de programmation spécial ne sont pas requis.

La série des détecteurs de température TS400/500 se programme très simplement à l'aide de trois boutons-poussoirs. Les deux boutons „Mode” et „Set” servent à sélectionner et régler manuellement différents paramètres sans utiliser d'outil.

Il est possible de faire défiler une liste de valeurs de haut en bas pour simplifier la sélection des valeurs. Si vous voulez enregistrer la valeur réglée et, par conséquent, modifier la programmation initiale, appuyez alors sur le bouton „Enter”. Ce bouton est encastré et peut seulement être activé à l'aide d'un simple d'outil tel qu'un stylo à bille.



Temperatursensoren mit zwei Schaltausgängen

Temperature sensors with two switching outputs

Détecteurs de température avec deux sorties logiques

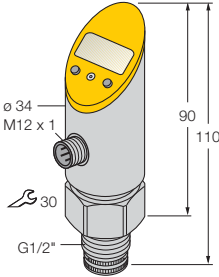



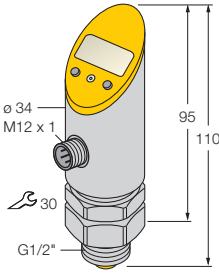



Abmessungen Dimensions Dimensions [mm]	Mechan. u. elektr. Anschluss Mechan. and electr. connection Connexion mécan. et électr.	Schaltpunkt- genauigkeit Switch point accuracy Précision du point de commutation [K]	Temperatur- bereich Temperature range Plage de température [° C]	Ausgang/ Merkmale Output/ Features Sortie/ Caractéristiques	Betriebs- spannung U _B Operational voltage U _B Tension de service U _B [V]
	G1/2 Außengewinde male thread filetage externe M12 x 1	0.2	-50...500	2 x PNP/NPN progr.	15...30 DC
	G1/2 Außengewinde male thread filetage externe M12 x 1	0.2	-50...150	2 x PNP/NPN progr.	15...30 DC

1) Fühler direkt angebaut/probe connected directly/sonde directement connectée

2) Fühler über Kabel angeschlossen/probe connected via cable/sonde raccordée par câble

	Typenbezeichnung	Ident-Nr.	Anschluss	Temperaturbereich	Schutzart	Werkstoffe/Materials/Matériaux (^{EN} 852)	
	Type	Ident no.	Connection	Temperature range	Degree of protection	Gehäusequalität Housing quality Qualité de boîtier	Gehäuse Housing Boîtier
	Type	No. d'ident.	Connexion (^{EN} 806)	Plage de température [°C]	Degré de protection		
	TS-400-2UPN8X-H1141	6840017	(S163)	-50...+150 ¹⁾ -50...+500 ²⁾	IP67	VA/PVC	1.4404/ AISI 316L
	TS-500-2UPN8X-H1141	6840018	(S163)	-50...+150 ¹⁾ -50...+500 ²⁾	IP67	VA/PVC	1.4404/ AISI 316L

Temperatursensoren – Ein Schaltausgang und ein Multiselect-Ausgang (programmierbar)
Temperature sensor – One switching output and one multiselect output (programmable)
Détecteurs de température – Une sortie logique et une sortie Multiselect (programmable)

Abmessungen Dimensions Dimensions [mm]	Mechan. u. elektr. Anschluss Mechan. and electr. connection Connexion mécan. et électr.	Wiederholgenauigkeit Repeat accuracy Reproductibilité	Genauigkeit-Schaltp./Analog Accur. switch point/analogue Précision point de commut./analog.	Temperaturbereich Temperature range Plage de température	Ausgang/Merkmale Output/Features Sortie/Caractéristiques	Betriebsspannung U _B Operational voltage U _B Tension de service U _B
		[K]	[K]	[° C]		[V]
	G1/2 Außengewinde male thread filetage externe  M12 x 1	0.1	0,2	-50...500	2 x PNP/NPN  /  progr. 1 x analog. Strom/current/courant	15...30 DC
		0.1	0,2	-50...500	2 x PNP/NPN 2 x NPN 1 x analog. Spannung/voltage/ tension	15...30 DC
	G1/2 Außengewinde male thread filetage externe  M12 x 1	0.1	0,2	-50...500	2 x NPN  /  progr. 1 x analog. Strom/current/courant	15...30 DC
		0.1	0,2	-50...500	oder/or 2 x NPN 1 x analog. Spannung/Voltage/ tension	15...30 DC

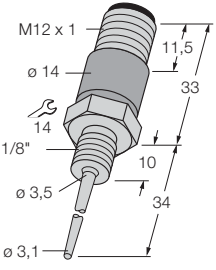

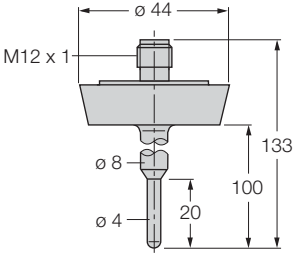

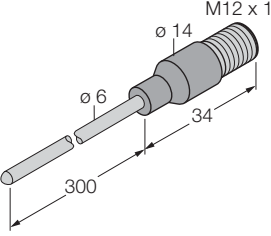

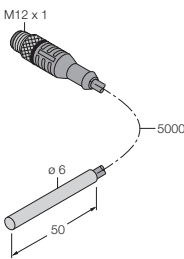

1) Fühler direkt angebaut/probe connected directly/sonde directement connectée
 2) Fühler über Kabel angeschlossen/probe connected via cable/sonde raccordée par câble

	Typenbezeichnung	Ident-Nr.	Anschluss	Temperaturbereich	Schutzart	Werkstoffe/Materials/Matériaux (^{EN} 852)	
	Type	Ident no.	Connection	Temperature range	Degree of protection	Gehäusequalität Housing quality Qualité de boîtier	Gehäuse Housing Boîtier
	Type	No. d'ident.	Connexion (^{EN} 806)	Plage de température [°C]	Degré de protection		
	TS-400-LI2UPN8X-H1141	6840007	(S166)	-50...+150 ¹⁾ -50...+500 ²⁾	IP67	VA/PVC	1.4404/ AISI 316L
	TS-400-LUUPN8X-H1141	6840008	(S165)	-50...+150 ¹⁾ -50...+500 ²⁾	IP67	VA/PVC	1.4404/ AISI 316L
	TS-500-LI2UPN8X-H1141	6840015	(S166)	-50...+150 ¹⁾ -50...+500 ²⁾	IP67	VA/PVC	1.4404/ AISI 316L
	TS-500-LUUPN8X-H1141	6840016	(S165)	-50...+150 ¹⁾ -50...+500 ²⁾	IP67	VA/PVC	1.4404/ AISI 316L

Temperatursensoren – Zwei Ausgänge programmierbar

Temperature sensors – Two outputs programmable

Détecteurs de température – Deux sorties programmables

Abmessungen Dimensions Dimensions [mm]	Mechan. u. elektr. Anschluss Mechan. and electr. connection Connexion mécan. et électr.	Einsatzbereich Merkmale Application Features Champ d'application Caractéristiques	Medium- temperatur Medium temperature Température de milieu [°C]	Ausgang/ Merkmale Output/ Features Sortie/ Caractéristiques	Fühler- durchmesser Probe diameter Diamètre de sonde [mm]
	G1/8 	Flüssigkeiten/Gase Messelement: Pt100, Klasse A Fluids/Gases Measuring element Pt100, category A Liquides/gaz Élément de mesure: Pt100, classe A	-50...120 -50...120	4-Draht/wire/fils 4-Draht/wire/fils	3 3
	M12 x 1 	Flüssigkeiten/Gase Messelement: Pt100, Klasse A Fluids/Gases Measuring element Pt100, category A Liquides/gaz Élément de mesure: Pt100, classe A	-50...120 -50...120 -50...120 -50...120	4-Draht/wire/fils 4-Draht/wire/fils 4-Draht/wire/fils 4-Draht/wire/fils	4 4 4 4
	M12 x 1 	Flüssigkeiten/Gase Messelement: Pt100, Klasse A Fluids/Gases Measuring element Pt100, category A Liquides/gaz Élément de mesure: Pt100, classe A	-30...350 -30...350 -30...350 -30...350 -30...350 -30...350 -30...350	4-Draht/wire/fils 4-Draht/wire/fils 4-Draht/wire/fils 4-Draht/wire/fils 4-Draht/wire/fils 4-Draht/wire/fils 4-Draht/wire/fils	3 3 3 3 6 6 6
	M12 x 1 	Flüssigkeiten/Gase Messelement: Pt100, Klasse A Fluids/Gases Measuring element Pt100, category A Liquides/gaz Élément de mesure: Pt100, classe A	-50...105 -50...105 -50...105	4-Draht/wire/fils 4-Draht/wire/fils 4-Draht/wire/fils	6 6 6

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (^{ES} 806)	Umgebungs- temperatur Ambient- temperature Température ambiante [°C]	Druck- festigkeit Pressure resistance Résistance à la pression [bar]	Schutzart Degree of protection Degré de protection	Werkstoffe/Materials/Matériaux (^{ES} 852) Sensor Sensor Décteur	Gehäuse Housing Boîtier
TP-103A-G1/8-H1141-L013	9910400	(S167)	-20...90	100	IP67	VA	1.4404/ AISI 316L
TP-103A-G1/8-H1141-L024	9910401	(S167)	-20...90	100	IP67	VA	1.4404/ AISI 316L
TP-104A-TRI3/4-H1141/L035	9910429	(S167)	-20...90	40	IP67	VA	1.4404/ AISI 316L
TP-104A-TRI3/4-H1141/L100	9910430	(S167)	-20...90	40	IP67	VA	1.4404/ AISI 316L
TP-104A-DN25-H1141/L035	9910431	(S167)	-20...90	40	IP67	VA	1.4404/ AISI 316L
TP-104A-DN25-H1141/L100	9910432	(S167)	-20...90	40	IP67	VA	1.4404 AISI 316L
TP-203A-CF-H1141/L100	9910402	(S167)	-20...90	100	IP67	VA	1.4404/ AISI 316L
TP-203A-CF-H1141/L150	9910403	(S167)	-20...90	100	IP67		
TP-203A-CF-H1141/L200	9910482	(S167)	-20...90	100	IP67		
TP-203A-CF-H1141/L250	9910404	(S167)	-20...90	100	IP67		
TP-203A-CF-H1141/L300	9910474	(S167)	-20...90	100	IP67		
TP-206A-CF-H1141/L100	9910475	(S167)	-20...90	100	IP67		
TP-206A-CF-H1141/L150	9910476	(S167)	-20...90	100	IP67		
TP-206A-CF-H1141/L200	9910477	(S167)	-20...90	100	IP67		
TP-206A-CF-H1141/L300	9910478	(S167)	-20...90	100	IP67		
TP-306A-CF-H1141/L1000	9910479	(S167)	-20...90	15	IP67	VA	1.4301/ AISI 304
TP-306A-CF-H1141/L2000	9910480	(S167)	-20...90	15	IP67	VA	1.4301/ AISI 304
TP-306A-CF-H1141/L5000	9910481	(S167)	-20...90	15	IP67	VA	1.4301/ AISI 304

Sensortechnik/Sensors/
Détecteurs

Opto-Sensoren

Optoelektronische Sensoren erfassen verschiedenste Objekte mithilfe von sichtbarem oder unsichtbarem Licht.

Zu unterscheiden sind die einzelnen Betriebsarten, die sich aus der jeweiligen Arbeitsweise der Sensoren ergeben.

Reflexionslichttaster erfassen das von einem Objekt reflektierte Licht. Die Reichweite dieser Geräte hängt in hohem Maße von der Reflektivität des Erfassungsobjekts ab. Wenn ein sehr kleines Objekt erfasst werden soll, kommt ein Winkellichttaster zum Einsatz, der sein Licht auf einen kleinen Brennpunkt vor der Sensorlinse fokussiert. Reflexionslichttaster mit fester oder einstellbarer Hintergrundaussblendung sind in der Lage, dunkle Objekte vor einem hellen Hintergrund zu erfassen.

Reflexionslichtschranken erfassen das Licht, das von einem Reflektor zum Sensor zurückgeworfen wird. Der Sensor reagiert, wenn dieser Lichtstrahl von einem Objekt unterbrochen wird. Diese Betriebsart funktioniert umso besser, je undurchsichtiger ein Objekt ist. Die Reflexionseigenschaften sind von untergeordneter Bedeutung.

Einweglichtschranken arbeiten nach einem ähnlichen Prinzip. Hier werden zwei Geräte installiert, ein Sender und ein Empfänger. Einweglichtschranken verfügen typischerweise über eine erheblich höhere Reichweite als Reflexionslichtschranken. Gabellichtschranken sind Einweglichtschranken, die in einem gabelförmigen Gehäuse untergebracht sind. Dadurch wird die Montage und der elektrische Anschluss erheblich vereinfacht.

Durch Lichtleiter aus Kunststoff oder Glas lässt sich Licht vom Sensor zum Objekt und wieder zurück transportieren. Lichtleiter eignen sich besonders für Applikationen unter beengten Einbaubedingungen oder bei schwierigen Umgebungsbedingungen wie z. B. hohen Temperaturen. Lichtleitersensoren lassen sich als Taster oder Schranken einsetzen.

Photoelectric sensors

Photoelectric sensors detect various objects by means of visible or invisible light. There are various operation modes based on the different function principles.

Diffuse mode sensors detect the light reflected by a target. The sensing range of these sensors largely depends on the reflectivity of the target. If a very small target is to be detected, a convergent mode sensor is the best choice, which focuses its light on a small focal point in front of the sensor lens. Diffuse mode sensors with fixed or adjustable background suppression are capable of detecting dark objects in front of a light background.

Retro-reflective sensors detect the light reflected by a reflector. The sensor reacts to the interruption of this light beam by the target. The more opaque the target, the more reliable the sensor function. In this mode, the reflectivity factor of the target is subordinate.



Détecteurs photoélectriques

Opposed mode sensors operate on a similar principle. In this mode, two separate devices are used, an emitter and a receiver. Opposed mode sensors typically have a significantly larger sensing range than retro-reflective sensors. Bifurcated types are also opposed mode sensors, but they combine the emitter and receiver in a bifurcated housing, thus facilitating mounting and electrical connection.

Fibre optics made of glass or plastic are used to transport the light from the sensor to the target and back. Fibre optics are especially suited for space-limited applications or for difficult environmental conditions, e.g. high temperature applications. Fibre optic sensors come as opposed, retro-reflective and diffuse mode types.

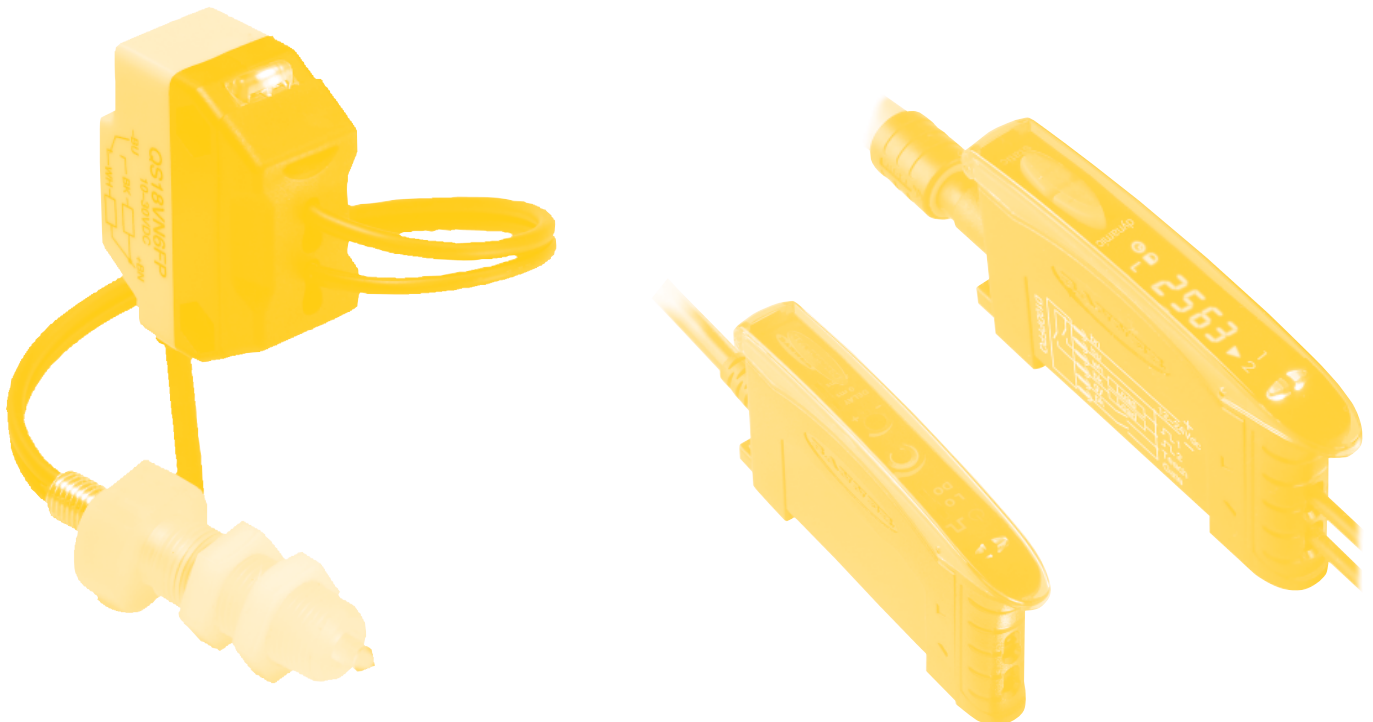
Les détecteurs photoélectriques détectent différents objets au moyen de lumière visible ou invisible. En fonction de la méthode de détection on distingue plusieurs modes de fonctionnement.

Les détecteurs diffus détectent la lumière réfléchiée par un objet. La portée de ces appareils dépend fortement du pouvoir de réflexion de l'objet à détecter. Un système convergent est utilisé en cas de détection d'un objet très petit. Les détecteurs convergents focalisent la lumière sur un petit point de focalisation devant la lentille du détecteur. Les détecteurs diffus avec suppression de l'arrière-plan réglable ou fixe permettent de détecter des objets sombres devant un arrière-plan clair.

Les systèmes rétro-réfléctifs détectent la lumière renvoyée par un réflecteur au détecteur. Le détecteur réagit lorsque le rayon lumineux est interrompu par un objet. Plus l'objet est opaque, plus ce mode de fonctionnement est efficace. Les caractéristiques de la réflexion sont d'importance secondaire.

Les systèmes barrières fonctionnent selon un principe similaire. Deux appareils sont installés, notamment un émetteur et un récepteur. Les systèmes barrières sont caractérisés par une portée considérablement plus élevée que celle des systèmes rétro-réfléctifs. Les fourches photoélectriques sont des systèmes barrières logés dans un boîtier en forme de fourche facilitant ainsi le montage et le raccordement.

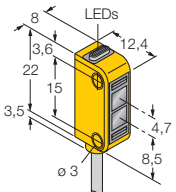


























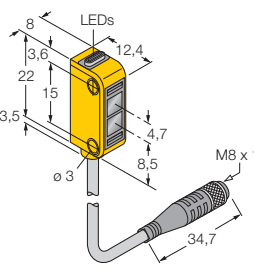


























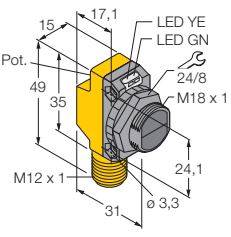
























Les fibres optiques en plastique ou en verre permettent de transporter de la lumière vers l'objet à détecter. Les fibres optiques sont parfaitement appropriées pour être utilisées en cas d'encombrements restreints ou dans des conditions d'environnement difficiles, p.ex. avec des températures élevées. Les fibres optiques peuvent être utilisées comme système barrière, rétro-réfléctif ou diffus.



Optosensoren

Photoelectric sensors

Détecteurs photoélectriques

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Betriebsart Operating mode Mode de fonctionnement (IEC 851)	Erfassungsbereich (max.) Sensing range (max.) Portée (max.) [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]
 <p>Q12</p> 			2000		10...30
			2000		10...30
			2000		10...30
			1500		10...30
			1500		10...30
			1000		10...30
			1000		10...30
			15		10...30
			15		10...30
			30		10...30
			30		10...30
			50		10...30
	50		10...30		
 <p>Q12</p> 			2000		10...30
			2000		10...30
			2000		10...30
			1500		10...30
			1500		10...30
			1000		10...30
			1000		10...30
			15		10...30
			15		10...30
			30		10...30
			30		10...30
			50		10...30
	50		10...30		
 <p>QS18</p> 	laser laser laser		3000		10...30
			20000		10...30
			30000		10...30
			20000		10...30
			6500		10...30
			3500		10...30
			10000		10...30
			300		10...30
			450		10...30
			50		10...30
			100		10...30
					10...30
			10...30		

Typenbezeichnung Type Type	Ident-Nr Ident no. No. d'ident.	Lichtart Light type Source de lumière	Wellenlänge Wave length Longueur d'ondes [mm]	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [Hz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoff: Gehäuse/Linse Material: housing/lens Matériau: boîtier/lentille (IEC 852)
Q126E	3072140	red	640	S069		-20...+55	IP67	Elastomer / PC
Q12AB6R	3072134			S070	450	-20...+55	IP67	Elastomer / PC
Q12RB6R	3072137			S070	450	-20...+55	IP67	Elastomer / PC
Q12AB6LV	3072122	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12RB6LV	3072125	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12AB6LP	3072128	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12RB6LP	3072131	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12AB6FF15	3072104	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12RB6FF15	3072107	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12AB6FF30	3072110	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12RB6FF30	3072113	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12AB6FF50	3072116	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12RB6FF50	3072119	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q126EQ	3072141	red	640	S069		-20...+55	IP67	Elastomer / PC
Q12RB6RQ	3072138			S070	450	-20...+55	IP67	Elastomer / PC
Q12AB6RQ	3072135			S070	450	-20...+55	IP67	Elastomer / PC
Q12AB6LVQ	3072123	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12RB6LVQ	3072126	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12AB6LPQ	3072129	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12RB6LPQ	3072132	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12AB6FF15Q	3072105	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12RB6FF15Q	3072108	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12AB6FF30Q	3072111	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12RB6FF30Q	3072114	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12AB6FF50Q	3072117	red	640	S070	700	-20...+55	IP67	Elastomer / PC
Q12RB6FF50Q	3072120	red	640	S070	700	-20...+55	IP67	Elastomer / PC
QS186EBQ8	3066448✘	IR	940	S069		-20...+70	IP67	ABS / Acryl
QS186EQ8	3066447✘	IR	940	S069		-20...+70	IP67	ABS / Acryl
QS186LEQ8	3070253✘	red	650	S101		-10...+50	IP67	ABS / Acryl
QS18VP6RQ8	3066450			S072	400	-20...+70	IP67	ABS / Acryl
QS18VP6LVQ8	3066454✘	red	660	S072	800	-20...+70	IP67	ABS / Acryl
QS18VP6LPQ8	3066452✘	red	660	S072	800	-20...+70	IP67	ABS / Acryl
QS18VP6LLPQ8	3073246	red	650	S072	700	-10...+50	IP67	ABS / Acryl
QS18VP6LDQ8	3073045	red	650	S072	700	-10...+50	IP67	ABS / Acryl
QS18VP6DQ8	3066460✘	IR	940	S072	800	-20...+70	IP67	ABS / Acryl
QS18VP6FF50Q8	3071755	red	660	S072	625	-20...+70	IP67	ABS / Acryl
QS18VP6FF100Q8	3071882	red	660	S072	625	-20...+70	IP67	ABS / Acryl
QS18VP6CV15Q8	3066456	red	660	S072	800	-20...+70	IP67	ABS / Acryl
QS18VP6CV45Q8	3066458✘	red	660	S072	800	-20...+70	IP67	ABS / Acryl

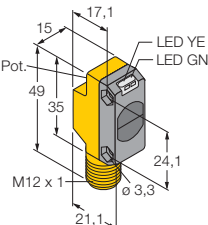




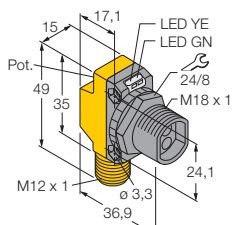


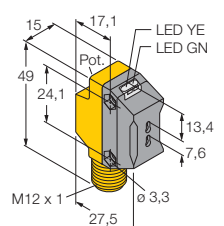


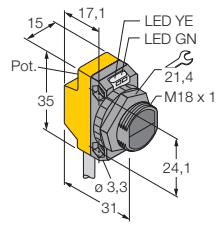











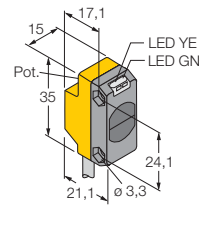






Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Optosensoren

Photoelectric sensors

Détecteurs photoélectriques

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Betriebsart Operating mode Mode de fonctionnement (IEC 851)	Erfassungsbereich (max.) Sensing range (max.) Portée (max.) [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]
	QS18 		3000	—, PNP	10...30
			100	—, PNP	10...30
			450	—, PNP	10...30
	QS18 			—, PNP	10...30
	QS18 			—, PNP	10...30
	QS18 		20000		10...30
			30000		10...30
			20000	—, PNP	10...30
			6500	—, PNP	10...30
			3500	—, PNP	10...30
			10000	—, PNP	10...30
			300	—, PNP	10...30
			450	—, PNP	10...30
			50	—, PNP	10...30
			100	—, PNP	10...30
	QS18 		3000		10...30
			3000	—, PNP	10...30
			100	—, PNP	10...30
			450	—, PNP	10...30
				—, PNP	10...30

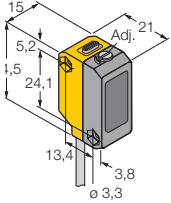



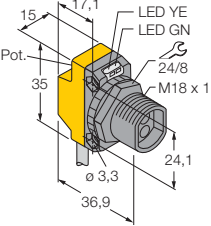


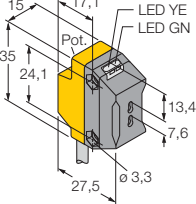


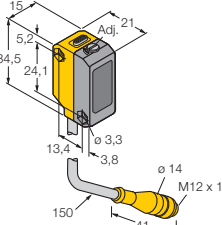



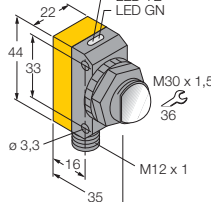




Typenbezeichnung Type Type	Ident-Nr Ident no. No. d'ident.	Lichtart Light type Source de lumière	Wellenlänge Wave length Longueur d'ondes [mm]	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [Hz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoff: Gehäuse/Linse Material: housing/lens Matériau: boîtier/lentille (IEC 852)
QS18VP6RBQ8	3066462			S072	400	-20...+70	IP67	ABS / Acryl
QS18VP6WQ8	3066464	IR	940	S072	800	-20...+70	IP67	ABS / Acryl
QS18VP6DBQ8	3066466	IR	940	S072	800	-20...+70	IP67	ABS / Acryl
QS18VP6FQ8	3071778	IR	940	S072	800	-20...+70	IP67	ABS
QS18VP6FPQ8	3066468*	red	660	S072	800	-20...+70	IP67	ABS
QS186E	3061618*	IR	940	S069		-20...+70	IP67	ABS / Acryl
QS186LE	3070252*	red	650	S101		-10...+50	IP67	ABS / Acryl
QS18VP6R	3061624*			S072	400	-20...+70	IP67	ABS / Acryl
QS18VP6LV	3061636*	red	660	S072	800	-20...+70	IP67	ABS / Acryl
QS18VP6LP	3061630*	red	660	S072	800	-20...+70	IP67	ABS / Acryl
QS18VP6LLP	3073241	red	650	S072	700	-10...+50	IP67	ABS / Acryl
QS18VP6LD	3073040	red	650	S072	700	-10...+50	IP67	ABS / Acryl
QS18VP6D	3061654*	IR	940	S072	800	-20...+70	IP67	ABS / Acryl
QS18VP6FF50	3071640	red	660	S072	625	-20...+70	IP67	ABS / Acryl
QS18VP6FF100	3071641	red	660	S072	625	-20...+70	IP67	ABS / Acryl
QS18VP6CV15	3061642*	red	660	S072	800	-20...+70	IP67	ABS / Acryl
QS18VP6CV45	3061648*	red	660	S072	800	-20...+70	IP67	ABS / Acryl
QS186EB	3061675*	IR	940	S069		-20...+70	IP67	ABS / Acryl
QS18VP6RB	3061672*			S072	400	-20...+70	IP67	ABS / Acryl
QS18VP6W	3061660*	IR	940	S072	800	-20...+70	IP67	ABS / Acryl
QS18VP6DB	3061666	IR	940	S072	800	-20...+70	IP67	ABS / Acryl

* = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Optosensoren

Photoelectric sensors

Détecteurs photoélectriques

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Betriebsart Operating mode Mode de fonctionnement (IEC 851)	Erfassungsbereich (max.) Sensing range (max.) Portée (max.) [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]
	QS18  2m laser	 100	100	—, PNP	10...30
		 150	150	—, PNP	10...30
	QS18  2m			—, PNP	10...30
	QS18  2m			—, PNP	10...30
	QS18 	 100	100	—, PNP	10...30
		 150	150	—, PNP	10...30
	QS30 		300000		10...30
			300000	—, PNP/NPN	10...30
			300000	—, PNP/NPN	10...30

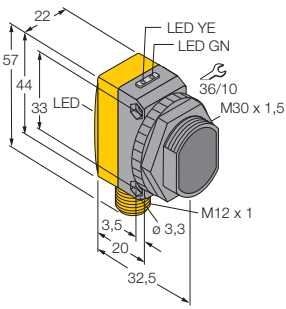












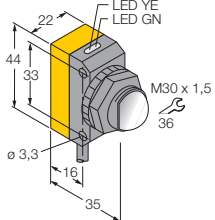



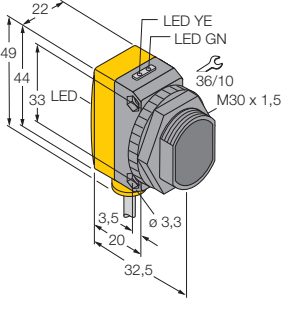












Typenbezeichnung Type Type	Ident-Nr Ident no. No. d'ident.	Lichtart Light type Source de lumière	Wellenlänge Wave length Longueur d'ondes [mm]	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [Hz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoff: Gehäuse/Linse Material: housing/lens Matériau: boîtier/lentille (IEC 852)
QS18VP6AF100	3065502✘	red	660	S072	700	0...+55	IP67	ABS / Acryl
QS18VP6LAF	3073188	red	650	S072	700	-10...+50	IP67	ABS / Acryl
QS18VP6F	3002796✘	IR	940	S072	800	-20...+70	IP67	ABS
QS18VP6FP	3066224✘	red	660	S072	800	-20...+70	IP67	ABS
QS18VP6AF100Q5	3068326	red	660	S072	700	0...+55	IP67	ABS / Acryl
QS18VP6LAFQ5	3073191	red	650	S072	700	-10...+50	IP67	ABS / Acryl
QS30EXQ	3071561✘	IR	875	S148		-20...+60	IP68 / IP69K	ABS / Acryl
QS30RRXQ	3071741✘			S149	16	-20...+60	IP68 / IP69K	ABS / Acryl
QS30ARXQ	3071562✘			S149	16	-20...+60	IP68 / IP69K	ABS / Acryl

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Optosensoren

Photoelectric sensors

Détecteurs photoélectriques

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Betriebsart Operating mode Mode de fonctionnement (IEC 851)	Erfassungsbereich (max.) Sensing range (max.) Portée (max.) [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]
 <p>QS30</p>	laser		60000		10...30
			60000	—, PNP/NPN	10...30
			12000	—, PNP/NPN	10...30
			8000	—, PNP/NPN	10...30
			18000	—, PNP/NPN	10...30
			1500	—, PNP/NPN	10...30
			200	—, PNP/NPN	10...30
			400	—, PNP/NPN	10...30
			600	—, PNP/NPN	10...30
			300	—, PNP/NPN	10...30
			400	—, PNP/NPN	10...30
			800	—, PNP/NPN	10...30
 <p>QS30</p>			300000		10...30
			300000	—, PNP/NPN	10...30
			300000	—, PNP/NPN	10...30
 <p>QS30</p>	laser		60000		10...30
			60000	—, PNP/NPN	10...30
			12000	—, PNP/NPN	10...30
			8000	—, PNP/NPN	10...30
			18000	—, PNP/NPN	10...30
			1500	—, PNP/NPN	10...30
			200	—, PNP/NPN	10...30
			400	—, PNP/NPN	10...30
			600	—, PNP/NPN	10...30
			300	—, PNP/NPN	10...30
			400	—, PNP/NPN	10...30
			800	—, PNP/NPN	10...30

Typenbezeichnung Type Type	Ident-Nr Ident no. No. d'ident.	Lichtart Light type Source de lumière	Wellenlänge Wave length Longueur d'ondes [mm]	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [Hz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoff: Gehäuse/Linse Material: housing/lens Matériau: boîtier/lentille (IEC 852)
QS30EQ	3073082	IR	875	S069		-20...+70	IP67	ABS / Acryl
QS30RQ	3073079			S150	100	-20...+70	IP67	ABS / Acryl
QS30LVQ	3073094	red	630	S150	250	-20...+70	IP67	ABS / Acryl
QS30LPQ	3073084	red	630	S150	250	-20...+70	IP67	ABS / Acryl
QS30LLPQ	3002994 ^x	red	650	S104	1000	-10...+50	IP67	ABS / Acryl
QS30DQ	3073095	IR	940	S151	250	-20...+70	IP67	ABS / Acryl
QS30FF200Q	3073086	red	680	S151	250	-20...+70	IP67	ABS / Acryl
QS30FF400Q	3073089	red	680	S151	250	-20...+70	IP67	ABS / Acryl
QS30FF600Q	3073092	red	680	S151	250	-20...+70	IP67	ABS / Acryl
QS30AFQ	3070381 ^x	red	660	S104	500	-10...+55	IP67	ABS / Acryl
QS30LDQ	3070231 ^x	red	650	S104	1000	-10...+50	IP67	ABS / Acryl
QS30LDLQ	3002786 ^x	red	650	S104	1000	-10...+50	IP67	ABS / Acryl
QS30EX	3071559 ^x	IR	875	S148		-20...+60	IP67	ABS / Acryl
QS30RRX	3071740 ^x			S149	16	-20...+60	IP67	ABS / Acryl
QS30ARX	3071560			S149	16	-20...+60	IP67	ABS / Acryl
QS30E	3073081	IR	875	S069		-20...+70	IP67	ABS / Acryl
QS30R	3073078			S150	100	-20...+70	IP67	ABS / Acryl
QS30LV	3072605	red	630	S150	250	-20...+70	IP67	ABS / Acryl
QS30LP	3072544	red	630	S150	250	-20...+70	IP67	ABS / Acryl
QS30LLP	3002993 ^x	red	650	S104	1000	-10...+50	IP67	ABS / Acryl
QS30D	3072604	IR	940	S151	250	-20...+70	IP67	ABS / Acryl
QS30FF200	3072546	red	680	S151	250	-20...+70	IP67	ABS / Acryl
QS30FF400	3073088	red	680	S151	250	-20...+70	IP67	ABS / Acryl
QS30FF600	3073091	red	680	S151	250	-20...+70	IP67	ABS / Acryl
QS30AF	3070289 ^x	red	660	S104	500	-10...+55	IP67	ABS / Acryl
QS30LD	3070230 ^x	red	650	S104	1000	-10...+50	IP67	ABS / Acryl
QS30LDL	3002785 ^x	red	650	S104	1000	-10...+50	IP67	ABS / Acryl

Sensortechnik/Sensors/
Détecteurs

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Optosensoren

Photoelectric sensors

Détecteurs photoélectriques

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Betriebsart Operating mode Mode de fonctionnement (IEC 851)	Erfassungsbereich (max.) Sensing range (max.) Portée (max.) [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]
<p>D10</p> <p>push button teach-input</p>		 		2x , PNP , PNP 0...10 V , PNP 4...20 mA	12...24 12...24 12...24
<p>D10</p> <p>push button teach-input</p>		 		2x , PNP , PNP 0...10 V , PNP 4...20 mA	12...24 12...24 12...24
<p>D10A</p> <p>potentiometer</p>				, PNP/NPN	10...30
<p>D10A</p> <p>potentiometer</p>				, PNP/NPN	10...30
<p>D10B</p> <p>push button teach-input</p>				, PNP/NPN	10...30
<p>D10B</p> <p>push button teach-input</p>				, PNP/NPN	10...30

Typenbezeichnung Type Type	Ident-Nr Ident no. No. d'ident.	Lichtart Light type Source de lumière	Wellenlänge Wave length Longueur d'ondes [mm]	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [Hz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoff: Gehäuse/Linse Material: housing/lens Matériau: boîtier/lentille (IEC 852)
D10DPFPQ	3062383*	red	680	S075	10000	-20...+55	IP50	ABS
D10UPFPQ	3063996*	red	680	S076	10000	-20...+55	IP50	ABS
D10IPFPQ	3062389	red	680	S076	10000	-20...+55	IP50	ABS
D10DPFP	3062382*	red	680	S075	10000	-20...+55	IP50	ABS
D10UPFP	3063995*	red	680	S076	10000	-20...+55	IP50	ABS
D10IPFP	3062388*	red	680	S076	10000	-20...+55	IP50	ABS
D10AFPQ	3072809	red	660	S070	1000	-10...+55	IP50	ABS
D10AFP	3072808	red	660	S070	1000	-10...+55	IP50	ABS
D10BFPQ	3072614*	red	660	S071	2500	-10...+55	IP50	ABS
D10BFP	3072613*	red	660	S071	2500	-10...+55	IP50	ABS

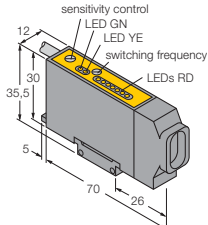







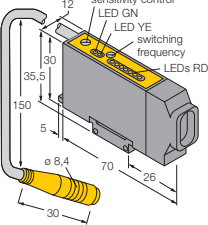







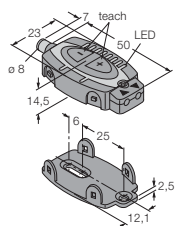



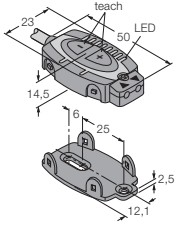



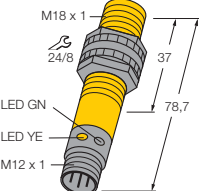






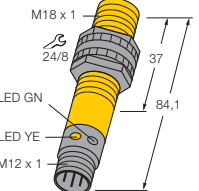



Sensortechnik/Sensors/
Détecteurs

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Optosensoren

Photoelectric sensors

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Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Betriebsart Operating mode Mode de fonctionnement (IEC 851)	Erfassungsbereich (max.) Sensing range (max.) Portée (max.) [mm]	Ausgang Output Sortie	Betriebsspannung U _B Operational voltage U _B Tension de service U _B [V]
 <p>D12</p> 					10...30
					10...30
					10...30
 <p>D12</p> 					10...30
					10...30
					10...30
 <p>FI22</p> 	push button teach-input				10...30
 <p>FI22</p> 	push button teach-input				10...30
 <p>S18</p>	wash down T -40°C		100	program. PNP	10...30
			300	program. PNP	10...30
			2000	program. PNP	10...30
			2000	program. PNP	10...30
			20000		10...30
			20000	program. PNP	10...30
 <p>S18</p> 	wash down T -40°C		50	program. PNP	10...30
			100	program. PNP	10...30

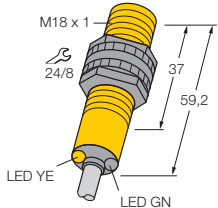






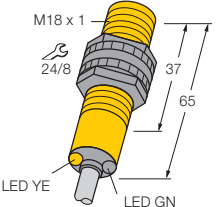


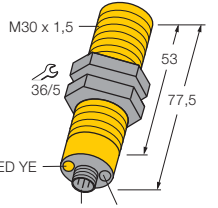





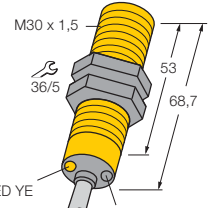





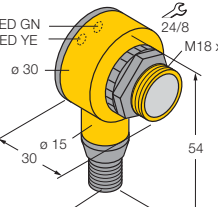






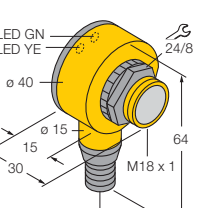

Typenbezeichnung Type Type	Ident-Nr Ident no. No. d'ident.	Lichtart Light type Source de lumière	Wellenlänge Wave length Longueur d'ondes [mm]	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [Hz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoff: Gehäuse/Linse Material: housing/lens Matériau: boîtier/lentille (IEC 852)
D12SP6FV	3582700*	red	680	S068	1000	-20...+70	IP66	ABS
D12SP6FVY	3035401	red	680	S068	10000	-20...+70	IP66	ABS
D12SP6FVY1	3583900	red	680	S068	10000	-20...+70	IP66	ABS
D12SP6FVQ	3582800*	red	680	S068	1000	-20...+70	IP66	ABS
D12SP6FVYQ	3035403	red	680	S068	10000	-20...+70	IP66	ABS
D12SP6FVY1Q	3035508	red	680	S068	10000	-20...+70	IP66	ABS
FI22FPQ	3056289*	red	660	S071	1000	-10...+55	IP67	ABS
FI22FP	3056287*	red	660	S071	1000	-10...+55	IP67	ABS
S18SP6DQ	3845600*	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S18SP6DLQ	3844700*	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S18SP6LPQ	3844300*	red	680	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S18SP6LQ	3845200*	IR	950	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S186EQ	3846300*	IR	950	S069		-40...+70	IP68 / IP69K	PBT / Lexan
S18SP6RQ	3845900*			S068	160	-40...+70	IP68 / IP69K	PBT / Lexan
S18SP6FF50Q	3848500*	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S18SP6FF100Q	3848700*	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl

* = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Optosensoren

Photoelectric sensors

Détecteurs photoélectriques

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Betriebsart Operating mode Mode de fonctionnement (IEC 851)	Erfassungsbereich (max.) Sensing range (max.) Portée (max.) [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]
 <p>S18</p> <p>2 m</p>	wash down T -40°C	     	20000 20000 100 300 2000 2000	program. PNP program. PNP program. PNP program. PNP program. PNP	10...30 10...30 10...30 10...30 10...30
 <p>S18</p> <p>2 m</p>	wash down T -40°C	 	50 100	program. PNP program. PNP	10...30 10...30
 <p>S30</p> <p>2 m</p>	wash down T -40°C	    	60000 60000 200 400 6000	program. PNP program. PNP program. PNP program. PNP program. PNP	10...30 10...30 10...30 10...30 10...30
 <p>S30</p> <p>2 m</p>	wash down T -40°C	    	60000 60000 200 400 6000	program. PNP program. PNP program. PNP program. PNP program. PNP	10...30 10...30 10...30 10...30 10...30
 <p>T18</p> <p>2 m</p>	wash down T -40°C	     	20000 20000 50 100 2000 2000	program. PNP program. PNP program. PNP program. PNP program. PNP program. PNP	10...30 10...30 10...30 10...30 10...30 10...30
 <p>T18</p> <p>2 m</p>	wash down T -40°C		500	program. PNP	10...30

Typenbezeichnung Type Type	Ident-Nr Ident no. No. d'ident.	Lichtart Light type Source de lumière	Wellenlänge Wave length Longueur d'ondes [mm]	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [Hz]	Umgebungstemperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoff: Gehäuse/Linse Material: housing/lens Matériau: boîtier/lentille (IEC 852)
S186E	3846200*	IR	950	S069		-40...+70	IP68 / IP69K	PBT / Lexan
S18SP6R	3845800*			S068	160	-40...+70	IP68 / IP69K	PBT / Lexan
S18SP6D	3845400*	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S18SP6DL	3844600*	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S18SP6LP	3844200*	red	680	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S18SP6L	3845000*	IR	950	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S18SP6FF50	3846500*	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S18SP6FF100	3846400*	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S30SP6RQ	3460700*			S068	160	-40...+70	IP68 / IP69K	PBT / Lexan
S306EQ	3457500*	IR	950	S069		-40...+70	IP68 / IP69K	PBT / Lexan
S30SP6FF200Q	3460100*	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S30SP6FF400Q	3460300*	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S30SP6LPQ	3460500*	red	680	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S306E	3457400*	IR	950	S069		-40...+70	IP68 / IP69K	PBT / Lexan
S30SP6R	3460600*			S068	160	-40...+70	IP68 / IP69K	PBT / Lexan
S30SP6FF200	3460000	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S30SP6FF400	3460200	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
S30SP6LP	3460400	red	680	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T186EQ	3461100*	IR	950	S069		-40...+70	IP68 / IP69K	PBT / Lexan
T18SP6RQ	3464300*			S068	160	-40...+70	IP68 / IP69K	PBT / Lexan
T18SP6FF50Q	3463900*	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T18SP6FF100Q	3463700*	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T18SP6LPQ	3464100*	red	680	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T18SP6LQ	3472300*	IR	950	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T18SP6DQ	3471900*	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl

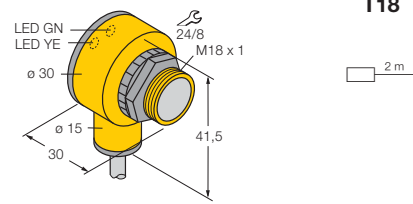







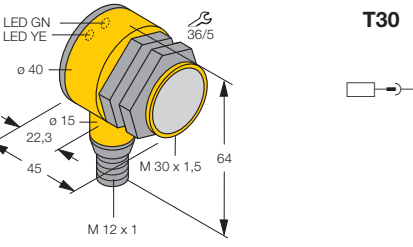





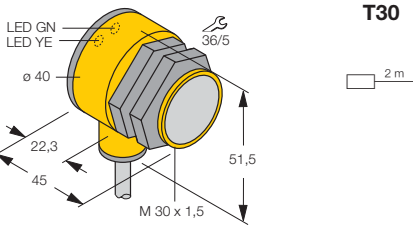





Sensortechnik/Sensors/
Détecteurs

* = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Optosensoren

Photoelectric sensors

Détecteurs photoélectriques

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Betriebsart Operating mode Mode de fonctionnement (IEC 851)	Erfassungsbereich (max.) Sensing range (max.) Portée (max.) [mm]	Ausgang Output Sortie	Betriebsspannung U_B Operational voltage U_B Tension de service U_B [V]
 <p>T18</p>	wash down T -40°C		20000		10...30
			20000	program. PNP	10...30
			50	program. PNP	10...30
			100	program. PNP	10...30
			500	program. PNP	10...30
			2000	program. PNP	10...30
			2000	program. PNP	10...30
 <p>T30</p>	wash down T -40°C		60000		10...30
			60000	program. PNP	10...30
			200	program. PNP	10...30
			400	program. PNP	10...30
			6000	program. PNP	10...30
 <p>T30</p>	wash down T -40°C		60000	program. PNP	10...30
			60000		10...30
			200	program. PNP	10...30
			400	program. PNP	10...30
			6000	program. PNP	10...30

Typenbezeichnung Type Type	Ident-Nr Ident no. No. d'ident.	Lichtart Light type Source de lumière	Wellenlänge Wave length Longueur d'ondes [mm]	Anschluss Connection Connexion (IEC 806)	Schaltfrequenz Switching frequency Fréquence de commut. [Hz]	Umgebungs-temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoff: Gehäuse/Linse Material: housing/lens Matériau: boîtier/lentille (IEC 852)
T186E	3461000X	IR	950	S069		-40...+70	IP68 / IP69K	PBT / Lexan
T18SP6R	3464200X			S068	160	-40...+70	IP68 / IP69K	PBT / Lexan
T18SP6FF50	3463800	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T18SP6FF100	3463600	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T18SP6D	3471700X	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T18SP6LP	3464000X	red	680	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T18SP6L	3472100X	IR	950	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T306EQ	3464700X	IR	950	S069		-40...+70	IP68 / IP69K	PBT / Lexan
T30SP6RQ	3467900X			S068	160	-40...+70	IP68 / IP69K	PBT / Lexan
T30SP6FF200Q	3467300X	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T30SP6FF400Q	3467500	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T30SP6LPQ	3467700X	red	680	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T30SP6R	3467800X			S068	160	-40...+70	IP68 / IP69K	PBT / Lexan
T306E	3464600X	IR	950	S069		-40...+70	IP68 / IP69K	PBT / Lexan
T30SP6FF200	3467200	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T30SP6FF400	3467400	IR	880	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl
T30SP6LP	3467600X	red	680	S068	160	-40...+70	IP68 / IP69K	PBT / Acryl

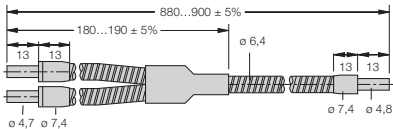
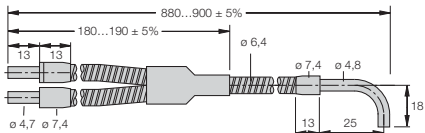
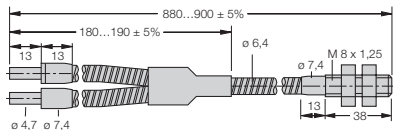
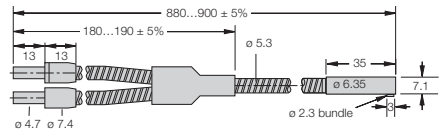
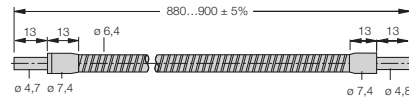
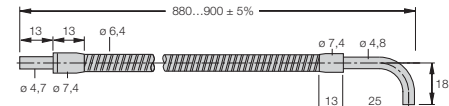
Sensortechnik/Sensors/
Détecteurs

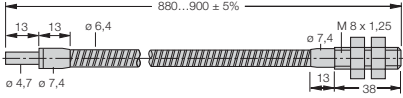
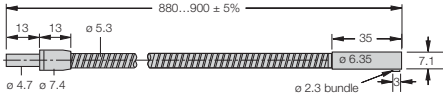
X = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Optosensoren – Glaslichtleiter

Photoelectric sensors – Glas fibre-optic

Détecteurs photoélectriques – Fibre optique en verre

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Werkstoffe/ Materials/ Matériaux (DIN 852)		Umgebungs- temperatur Temperature range Température ambiante [°C]	Typenbezeichnung	Ident.-Nr.
	Mantel Jacket Gaine	Endhülse End tip Embout		Type	Ident.-No.
				Type	No. d'ident.
	1.4310 (AISI302)	1.4301 (AISI304)	-140...+250	BF23S	39011✘
	1.4310 (AISI302)	1.4301 (AISI304)	-140...+250	BA23S	39001✘
	1.4310 (AISI302)	1.4301 (AISI304)	-140...+250	BT23SM8	39033✘
	1.4310 (AISI302)	1.4301 (AISI304)	-140...+250	BA1.53SMTA	3916200✘
	1.4310 (AISI302)	1.4301 (AISI304)	-140...+250	IF23S	39010✘
	1.4310 (AISI302)	1.4301 (AISI304)	-140...+250	IA23S	39003✘

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Werkstoffe/ Materials/ Matériaux (DIN 852)		Umgebungs- temperatur Temperature range Température ambiante [°C]	Typenbezeichnung	Ident.-Nr.
	Mantel Jacket Gaine	Endhülse End tip Embout		Type	Ident.-No. No. d'ident.
	1.4310 (AISI302)	1.4301 (AISI304)	-140...+250	IT23SM8	39032 ✘
	1.4310 (AISI302)	1.4301 (AISI304)	-140...+250	IA1.53SMTA	3927100 ✘

Sensortechnik/Sensors/
Détecteurs

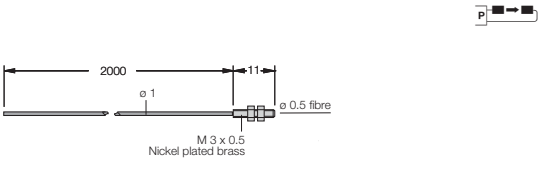
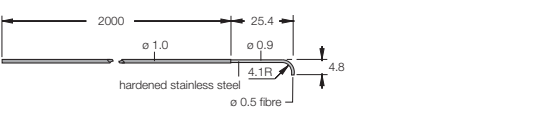
✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Optosensoren – Kunststofflichtleiter
Photoelectric sensors – Plastic fibre-optic conductor
Détecteurs photoélectriques – Fibre optique en plastique

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Werkstoffe/ Materials/ Matériaux (DIN 852)		Umgebungs- temperatur Temperature range Température ambiante [°C]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.				
	Mantel Jacket Gaine	Endhülse End tip Embout							
		PE				CuZn	-30...+70	PBP46U	3911400x
		PE				CuZn	-30...+70	PBT46U	39080x
	PE	CuZn	-30...+125	PBT46UHT1	3042799				
	PE	CuZn	-30...+70	PBT46UHF	3051784				
	PE	CuZn	-30...+70	PBP26U	3915400x				
	PE	CuZn	-30...+70	PBT26U	3913400x				
	PE	CuZn	-30...+70	PBPMSB36U	3038711				
	PE	CuZn	-30...+70	PIT46U	3925000x				
	PE	CuZn	-30...+125	PIT46UHT1	3042804				
	PE	CuZn	-30...+70	PIT46UHF	3051783x				

1)

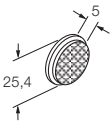
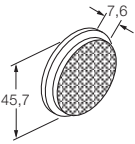
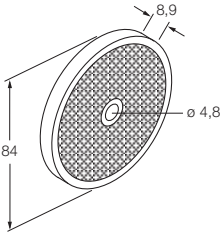
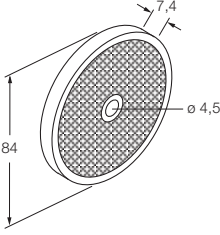
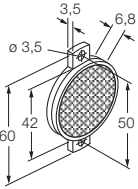
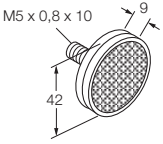
¹⁾ 2 Stück im Lieferumfang enthalten/2 included in scope of supply/2 pièces font partie de la livraison

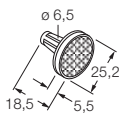
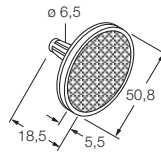
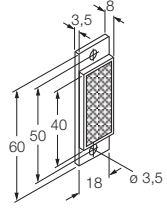
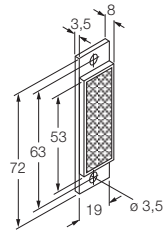
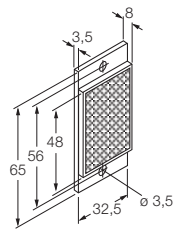
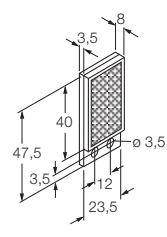
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Werkstoffe/ Materials/ Matériaux (DIN 852)		Umgebungs- temperatur Temperature range Température ambiante [°C]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.
	Mantel Jacket Gaine	Endhülse End tip Embout			
 <p>1)</p>	PE	CuZn	-30...+70	PIT26U	3913800
 <p>1)</p>	PE	1.4305 (AISI303)	-30...+70	PIA26U	3921700

Sensortechnik/Sensors/
Détecteurs

* = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Optosensoren – Reflektoren
Photoelectric sensors – Reflectors
Détecteurs photoélectriques – Réflecteurs

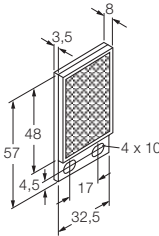
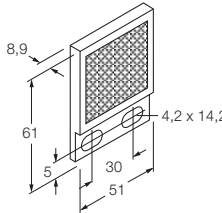
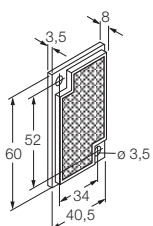
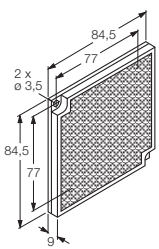
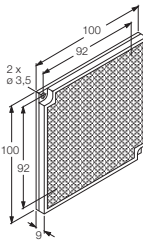
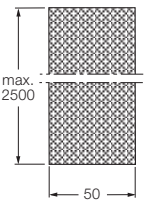
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Werkstoffe Materials Matériaux (EN 852)	Reflektion Reflectivity Réflexion		Umgebungs- temperatur Temperature range Température ambiante [°C]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.
		Faktor Factor Facteur	Fläche Area Surface			
	Acryl	1	0.1	65	BRT-25	37419✘
	Acryl	1	0.3	65	BRT-40	37420✘
	Acryl	1	1	65	BRT-75	37421✘
	Acryl	1.4	1	65	BRT-84	3058979✘
	Acryl	1	0.4	50	BRT-42A	3045005✘
	Acryl	1	0.4	50	BRT-42D	3045006✘

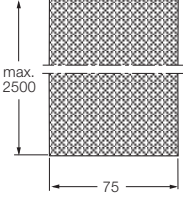
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Werkstoffe Materials Matériaux (☞ 852)	Reflektion Reflectivity Réflexion		Umgebungs- temperatur Temperature range Température ambiante [°C]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.
		Faktor Factor Facteur	Fläche Area Surface			
	Acryl	1.8	0.1	50	BRT-25R	3049809 ✕
	Acryl	1.8	0.4	50	BRT-50R	3049814 ✕
	Acryl	1.8	0.14	50	BRT-40X18A	3044991 ✕
	Acryl	1.8	0.19	50	BRT-53X19A	3044996 ✕
	Acryl	1.8	0.3	50	BRT-48X32A	3044995 ✕
	Acryl	1.8	0.17	50	BRT-40X23B	3044992 ✕

Sensortechnik/Sensors/
Détecteurs

✕ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Optosensoren – Reflektoren
Photoelectric sensors – Reflectors
Détecteurs photoélectriques – Réflecteurs

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Werkstoffe Materials Matériaux (EN 852)	Reflektion Reflectivity Réflexion		Umgebungs- temperatur Temperature range Température ambiante [°C]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.		
		Faktor Factor Facteur	Fläche Area Surface					
	Acryl	1.8	0.29	50	BRT-48X32B	3044999 ✕		
	Acryl	1.8	0.5	50	BRT-46	3040071 ✕		
	Acryl	1.8	0.45	50	BRT-60X40C	3044997 ✕		
	Acryl	1.8	1.12	50	BRT-77X77C	3049816 ✕		
	Acryl	1.8	1.6	50	BRT-92X92C	3049808 ✕		
		0.7	0.14	60	BRF50H (1M)	3721000 ✕		

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Werkstoffe Materials Matériaux (EN 852)	Reflektion Reflectivity Réflexion		Umgebungs- temperatur Temperature range Température ambiante [°C]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.
		Faktor Factor Facteur	Fläche Area Surface			
		0.7	0.19	60	BRF75H (1M)	3412400*

Sensortechnik/Sensors/
Détecteurs

* = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Mess- und Prüftechnik

L-GAGE

Die Lasermessgeräte LG5 und LG10 arbeiten nach dem Lasertriangulationsverfahren. Damit sind sie in der Lage, mit hoher Genauigkeit Distanzen zu messen. Zum Einsatz kommen diese Geräte bei anspruchsvollen Regelaufgaben in der Automatisierungstechnik oder in der Qualitätskontrolle.

LT3

Der LT3-Sensor verwendet die Laser-Laufzeit-Technologie und ist somit extrem leistungsfähig. Die hohe Reichweite des Sensors ermöglicht die Erfassung von Kleinteilen oder wenig auffälligen Objekteigenschaften, selbst wenn der LT3 im sicheren Abstand zum Gefahrenbereich des Produktionsprozesses montiert ist.

EZ-ARRAY™

Der messende Lichtvorhang EZ-ARRAY™ besteht aus einer Vielzahl von Einweglichtschranken. Anhand von Anzahl und Position der unterbrochenen Strahlen, lassen sich Größe und Ort eines Objektes bestimmen. Der Vorteil dieser Erfassungsmethode liegt in der hohen Betriebssicherheit von Einweglichtschranken.

EZ-ARRAY™-Sensoren verfügen über Schalt- und Analogausgänge sowie über eine MODBUS-Schnittstelle, über die der Zustand jedes Strahls in einen PC eingelesen werden kann. Mithilfe einer Windows-Software lässt sich das Schalt- und Messverhalten konfigurieren.

Measurement and inspection technology

L-GAGE

Laser sensors, type LG5 and LG10, operate on the triangulation principle and are thus capable of accurate distance measurements. They are designed for use in challenging automation or quality assurance applications.

LT3

The LT3 uses pulsed time-of-flight technology to achieve unsurpassed performance. The sensor's long range enables it to detect very small parts or inconspicuous features, even when it is mounted well back from the hazards of a process.



Techniques de mesure et de contrôle

EZ-ARRAY™

The measuring light screen EZ-ARRAY™ incorporates several opposed mode sensors. Based on the number and the position of interrupted beams it is possible to define the location and size of a target. The advantage of this sensing mode is the excellent reliability of the opposed mode operation principle.

EZ-ARRAY™ sensors are equipped with switching and analogue outputs and an additional MODBUS interface used to transfer the status of every single beam to a PC. The switching and measuring performance of the sensor is programmed via Windows software.

L-GAGE

Les appareils de mesure à laser LG5 et LG10 fonctionnent suivant la méthode de triangulation à laser leurs permettant de mesurer des distances avec une haute précision. Ces appareils sont utilisés dans des applications de réglage dans la technique d'automatisation ou le contrôle de qualité.

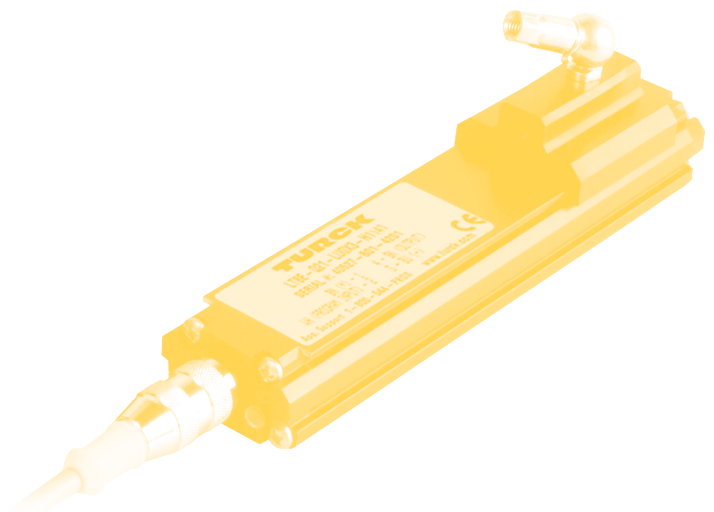
LT3

Le détecteur laser LT3 utilise la technologie basée sur le temps de parcours lui procurant ainsi une performance particulière. Grâce à sa longue portée il peut détecter des petits objets ou des objets presque pas remarquables, même si le LT3 est monté à une distance sûre par rapport à la zone de danger du processus de production.

EZ-ARRAY™

Le rideau lumineux de mesure EZ-ARRAY™ est composé d'une série de systèmes barrières. Sur base du nombre et de la position des faisceaux interrompus, il est possible de déterminer la taille et la position d'un objet. La fiabilité élevée des systèmes barrières est l'atout principal de cette méthode de détection.

Les détecteurs EZ-ARRAY™ sont équipés de sorties logiques et analogiques et d'une interface MODBUS, par laquelle l'état de chaque faisceau lumineux peut être lu dans un PC. Un logiciel Windows permet la configuration du type de mesure et de commutation.



Geräte für den Personenschutz

EZ-SCREEN™

Die Sicherheitslichtvorhänge EASY-SCREEN™ sind für die Personenschutzkategorie 4 zugelassen und werden als 1-, 2-, 3- oder 4-Strahlsystem zur Zugangsabsicherung eingesetzt. Als hochauflösende Systeme mit Auflösungen von 14 oder 30 mm schützen sie weiterhin Finger und Hände. Funktionen wie „Fixed Blanking“ oder „Muting“ sind ebenfalls durchführbar. Bis zu 4 Module lassen sich kaskadieren.

DUO-TOUCH™ SG Zweihandsteuerung

Die selbstüberwachende Zweihandsteuerung DUO-TOUCH™ erfüllt die Anforderungen des Typs IIC nach EN 574 für Zweihandschaltungen.

Durch die völlig kraftfreie Betätigung nach dem Funktionsprinzip von Einweglichtschranken stellen die OPTO-TOUCH™-Bedienelemente eine ergonomische Alternative zu mechanisch betätigten Schaltern dar. Dadurch wird die einseitige Belastung des Bedienpersonals vermieden und die Gefahr gesundheitlicher Beeinträchtigungen wesentlich verringert.

PICO-GUARD™

Das PICO-GUARD™-Lichtleitsystem überwacht Klappen und Türen vor unbefugtem Öffnen. Die äußerst einfache Montage der Lichtleiter im Bereich der Maschine macht dieses System sehr flexibel.

SC22-3 - Sicherheitskontroller

Der Sicherheitskontroller erfüllt die Standards EN 954-1, bzw. EN ISO 13849-1 und SIL 3. Über 22 Eingänge können die unterschiedlichsten schaltenden Sicherheitskomponenten mit 3 sicheren Ausgängen so verknüpft werden, dass nahezu alle sicherheitsbestimmenden Relais platz- und kostensparend ersetzt werden. Die Programmierung erfolgt entweder per Software oder über Drucktaster und Display direkt am Kontrollergehäuse.

Machine safety products

EZ-SCREEN™

The safety light screens EASY-SCREEN™ are approved for the personnel safety category 4 and operate either as 1, 2, 3 or 4 beam safeguarding systems. As a high resolution system with resolutions from 14 or 30 mm they offer protection for hands and fingers. Functions such as fixed blanking or muting are also available. Up to four modules can be cascaded.

DUO-TOUCH™ SG two-hand safety control system

The self-monitoring two-hand safety control system DUO-TOUCH™ meets the requirements of type IIC according to EN 574 for two-handed controls.

As a result of the complete force-free operation according to the functional principle of thru-beam sensors, the OPTO-TOUCH™ operating elements provide an ergonomic alternative to mechanically operated switches. This prevents the one-sided strain on the operating personnel and significantly reduces the danger of adverse effects on health.



Appareils de sécurité pour machines

PICO-GUARD™

The PICO-GUARD™ fibre-optic system monitors covers and doors to prevent unauthorised opening. The optical fibres can be simply installed in the area of the machine making this a highly flexible system.

Safety controller SC22-3

The safety controller fulfills the standards EN 954-1, resp. EN ISO 13849-1 and SIL 3. Many different safety components with 3 outputs can be linked via 22 inputs. With this economic solution safety relays can be replaced and more space is thus obtained. Programming via software or via push buttons and LCD at the controller housing.

EZ-SCREEN™

Les rideaux lumineux de sécurité EZ-SCREEN (EASY-SCREEN™) sont conformes à la catégorie de sécurité 4 et sont disponibles à 1, 2, 3 ou 4 faisceaux pour la protection d'accès. Le système est disponible en résolution 14 ou 30 mm et sert à protéger les doigts et les mains.

Les fonctions telles que Fixed Blanking ou Muting sont également disponibles. 4 Modules au maximum peuvent être montés en cascade.

Commande bimanuelle DUO-TOUCH™ SG

La commande bimanuelle avec autocontrôle DUO-TOUCH™ remplit les exigences du type IIIC suivant EN 574 pour les commandes bimanuelles. Le principe de fonctionnement est basé sur une activation des boutons sans effort physique. Les boutons optiques OPTO-TOUCH™ offrent une alternative ergonomique par rapport aux commutateurs traditionnels activés de façon mécanique. Le DUO-TOUCH™ permet ainsi d'éviter une surcharge due aux actions répétitives chez les opérateurs et de réduire considérablement les risques pour la santé du personnel.

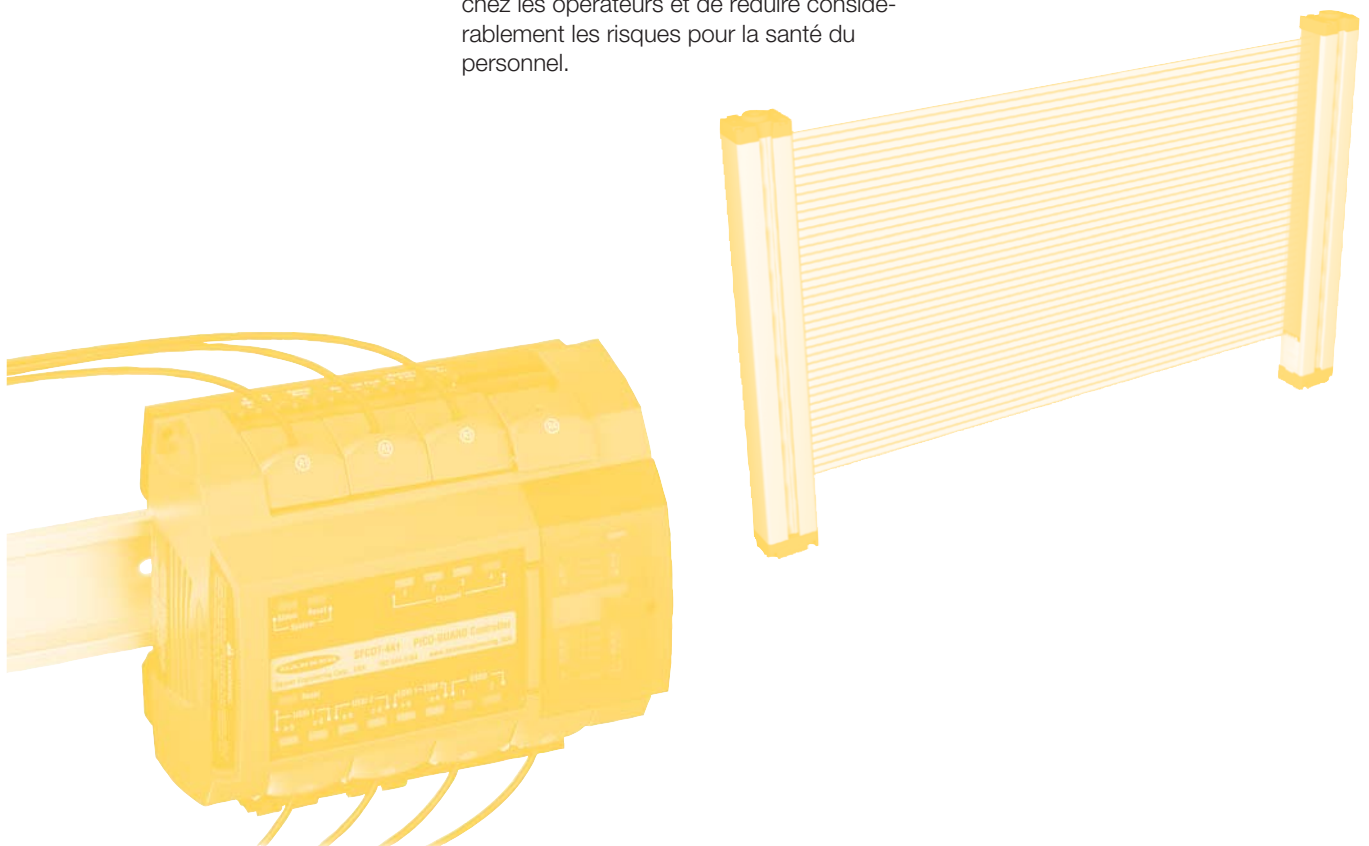
PICO-GUARD™

PICO-GUARD™ est un système de sécurité à fibre optique surveillant des portes et des panneaux contre l'ouverture non autorisée. La simplicité de montage des fibres optiques dans la machine fait de ce système une solution très flexible.

SC22-3 - Contrôleur de sécurité

Le contrôleur de sécurité est conforme aux normes EN 954-1, resp. EN ISO 13849-1 et SIL 3.

Le module de sécurité supporte 22 entrées et 3 sorties de sécurité, il permet de réduire significativement les coûts en donnant la possibilité à l'utilisateur d'éliminer certains relais additionnels. La programmation est réalisée par un ordinateur ou par bouton-poussoir directement depuis la face frontale de l'affichage.



Ultraschallsensoren

Ultraschallsensoren erfassen mithilfe von Schallwellen berührungslos und verschleißfrei eine Vielfalt von Objekten. Dabei spielt es keine Rolle, ob das Objekt durchsichtig oder undurchsichtig, metallisch oder nicht metallisch, fest, flüssig oder pulverförmig ist. Auch Umgebungseinflüsse wie Sprühnebel, Staub oder Regen beeinträchtigen die Funktion kaum.

Einstellmöglichkeiten

Bei fast allen TURCK-Ultraschallsensoren lassen sich Anfang und Ende des Schalt- bzw. Messbereichs mit einem Potentiometer, per Knopfdruck oder durch eine Steuerleitung einstellen. Objekte, die sich außerhalb des eingestellten Bereichs befinden, werden möglicherweise erfasst, sie führen aber nicht zu einer Änderung des Ausgangs.

Ausgangsfunktionen

Ultraschallsensoren mit Schaltausgang stehen in allen Bauformen zur Verfügung. Sensoren der Bauformen M30 und T30U sind auch mit zwei Schaltausgängen erhältlich (z. B. zur Erfassung von Minimum und Maximum bei Füllständen). Ausführungen mit einem analogen Strom- bzw. Spannungsausgang werden in fast allen Bauformen angeboten.

Wiederholgenauigkeit

Neben der Wellenlänge begrenzt vor allem die Änderung der Schallgeschwindigkeit bei Temperaturwechseln die Genauigkeit von Ultraschallsensoren. Daher wurden die Sensoren in der Regel mit Temperaturkompensation versehen. Damit erreichen Analogsensoren der Baureihe Q45U Auflösungen von bis zu 0,6 mm über einen weiten Temperaturbereich.

Störunterdrückung

Fremdgeräusche wie metallisches Klirren oder Pressluftausaschen bleiben durch eine optimale Auswahl des Arbeitsfrequenzbereiches und durch eine patentierte Störunterdrückungsschaltung ohne Einfluss auf die Signalauswertung.

Ultrasonic sensors

Ultrasonic sensors are designed for non-contact and wear-free detection of a variety of targets by means of sonic waves. It is not important whether the target is transparent or opaque, metallic or non-metallic, solid, liquid or powdery. Environmental conditions such as spray, dust or rain hardly affect their function.

Adjustments

Almost all ultrasonic TURCK sensors allow adjustment of the lower and the upper limit of the switching or measuring range by means of a potentiometer, push button or an external programming line. Objects outside this range may be detected, but they do not initiate the output to change state.

Output functions

Ultrasonic sensors with switching output come in all housing styles. M30 and T30U type sensors are also available with two switching outputs (e.g. for minimum and maximum level control). Versions with an analogue current or voltage output are included in most housing series.



Détecteurs ultrasoniques

Repeat accuracy

In addition to the wavelength it is the fluctuations in the speed of the sound due to temperature changes that have the greatest effect on the accuracy of ultrasonic sensors. For this reason the majority of the sensors are equipped with temperature compensation. This enables the analogue sensors of the series Q45U to achieve a resolution of up to 0.6 mm across a wide temperature range.

Noise suppression

Noise such as metal "clink" or roaring pressure do not influence the evaluation due to optimised selection possibilities of the frequency range and the patented noise suppression circuitry.

Les détecteurs ultrasoniques permettent de détecter sans contact et sans usure tous types d'objets en utilisant des ondes sonores. Que l'objet soit transparent ou opaque, ferreux ou non-ferreux, solide, liquide ou granuleux, ceci n'a aucune incidence. Les influences de l'environnement comme le brouillard, la poussière ou la pluie n'influencent pas son fonctionnement.

Possibilités de réglage

Presque tous les détecteurs ultrasoniques TURCK disposent soit d'un potentiomètre, soit d'un bouton-poussoir, soit d'un logiciel de programmation, permettant le réglage du début et de la fin de la plage de mesure ou de commutation. Les objets se trouvant en dehors de la plage réglée peuvent être détectés, mais sans commutation de la sortie.

Fonctions de sortie

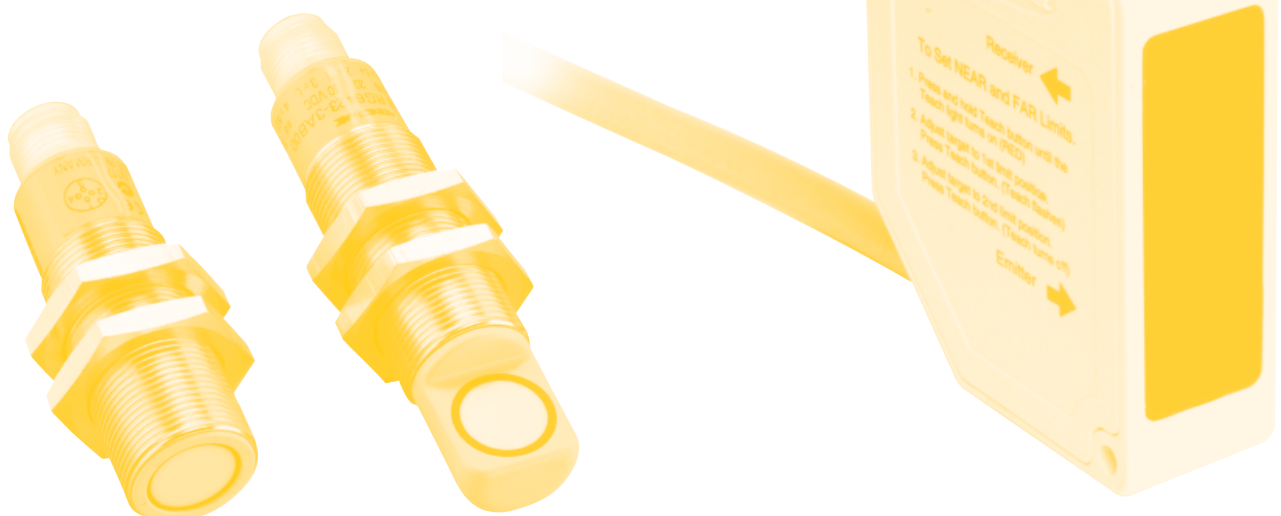
Les détecteurs ultrasoniques avec une sortie tout ou rien sont disponibles dans tous les formats. Les détecteurs des formats M30 et T30U sont également disponibles avec deux sorties de commutation (p.ex. pour la détection mini-maxi dans le cas d'un contrôle de niveaux). Les versions avec une sortie analogique courant ou tension sont disponibles dans presque tous les formats.

Reproductibilité

En plus de la longueur d'onde, la précision d'un détecteur ultrasonique est particulièrement réduite par la variation de vitesse du son lors des changements de température ambiante. C'est pourquoi certains détecteurs sont compensés en température. Les détecteurs analogiques de la série Q45U permettent d'obtenir une résolution jusqu'à 0,6 mm dans une large plage de température.

Protection contre les parasites

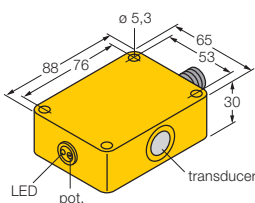



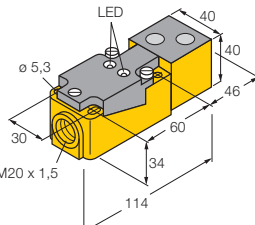


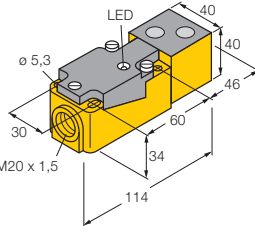

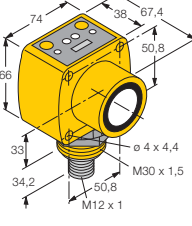


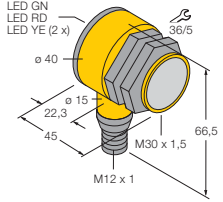





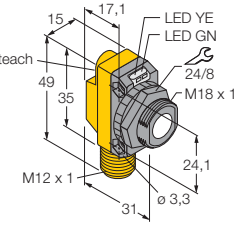


Des sons étrangers tels que des bruits métalliques ou sifflements d'air comprimé restent sans effet compte tenu du choix optimal de la fréquence de travail et grâce à un circuit de protection contre les parasites sans influence sur le traitement du signal.



Ultraschallsensoren

Ultrasonic sensors

Détecteurs ultrasoniques

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Erfassungsbereich Sensing range Portée [cm]	max. Hysteresis Max. hysteresis Hystérésis max. [mm]	max. Wiederholgenauigkeit Max. repeat accuracy Reproductibilité max. [mm]	Schallfrequenz Echo frequency Fréquence ultrasonique [Hz]	Ausgang Output Sortie
	M12 x 1 	6...30	5	0.45	400	 , PNP
		20...100	10	1.5	230	 , PNP
		6...30		0.45	400	0...10 V
		20...100		1.5	230	0...10 V
		5...180		5	40	 , PNP
		5...180	20	5	40	0...10 V/0...20 mA
	M12 x 1 	20...800	5	1	75	2x  , PNP
		20...800		1	75	0...10 V/4...20 mA
	M12 x 1 	15...100	0.25	0.375	230	2x  , PNP
		30...200	0.25	0.75	120	2x  , PNP
		15...100	0.25	0.375	230	 , PNP/4...20 mA
		30...200	0.25	0.75	120	 , PNP/4...20 mA
	M12 x 1 	5...50	1.4	0.7	300	 , PNP

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Betriebs- spannung U _B Operational voltage U _B Tension de service U _B [V]	Anschluss Connection Connexion (IEC 806)	Schalt- frequenz Switching frequency Fréquence de commutation [Hz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe: Gehäuse/Wandler Materials: housing/transducer Materiaux: boîtier/convertisseur (IEC 852)
RU30-Q30-AP8X-H1141	1820000*	18...35	S036	8	0...+55	IP65	PBT/EP
RU100-Q30-AP8X-H1141	1820200*	18...35	S036	5	0...+55	IP65	PBT/EP
RU30-Q30-LUX-H1141	1820005*	18...35	S037		0...+55	IP65	PBT/EP
RU100-Q30-LUX-H1141	1820205*	18...35	S037		0...+55	IP65	PBT/EP
RU100-CP40-AP6X2	16100*	10...30	S003	3	0...+70	IP40	PBT/EP
RU100-CP40-LIUX	15349*	15...30	S035		0...+70	IP40	PBT/EP
QT50UDBQ6	3002724	10...30	S063	5	-20...+70	IP67	ABS/EP
QT50ULBQ6	3002728	10...30	S103		-20...+70	IP67	ABS/EP
T30UDPAQ	3055545*	12...24	S063	20	-20...+70	IP67	Polyester/EP
T30UDPBQ	3055551*	12...24	S063	10	-20...+70	IP67	Polyester/EP
T30UIPAQ	3055975*	15...24	S064	20	-20...+70	IP67	Polyester/EP
T30UIPBQ	3055981*	15...24	S064	10	-20...+70	IP67	Polyester/EP
QS18UPAQ8	3073156*	12...30	S147	33	-20...+60	IP67	ABS/EP

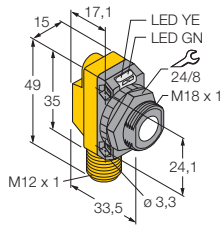
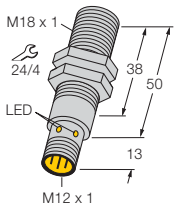
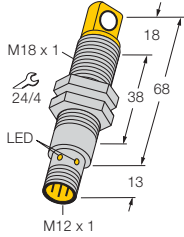
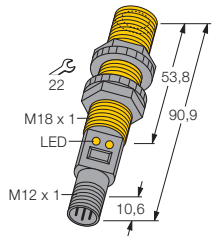
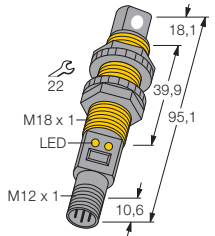
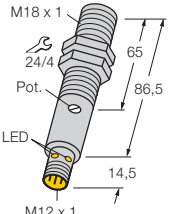
Sensortechnik/Sensors/
Détecteurs



* = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Ultraschallsensoren

Ultrasonic sensors

Détecteurs ultrasoniques

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Erfassungsbereich Sensing range Portée [cm]	max. Hysterese Max. hysteresis Hystérésis max. [mm]	max. Wiederholgenauigkeit Max. repeat accuracy Reproductibilité max. [mm]	Schallfrequenz Echo frequency Fréquence ultrasonique [Hz]	Ausgang Output Sortie
 <p>M12 x 1</p>	wash down teach-input	5...50	1.4	0.7	300	—, PNP
 <p>M12 x 1</p>	teach-input	3...20 10...70	10 10	1 1	400 200	—, PNP —, PNP
 <p>M12 x 1</p>	teach-input	3...20 10...70	10 10	1 1	400 200	—, PNP —, PNP
 <p>M12 x 1</p>	push button teach-input	3...30 3...30	0.7	0.25 0.25	300 300	—, PNP/NPN 4...20 mA
 <p>M12 x 1</p>	push button teach-input	3...30 6...30	0.7	0.25 0.25	300 300	—, PNP/NPN 4...20 mA
 <p>M12 x 1</p>	interface	5...30	10	1	400	—, PNP

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Betriebs- spannung U _B Operational voltage U _B Tension de service U _B [V]	Anschluss Connection Connexion  806	Schalt- frequenz Switching frequency Fréquence de commutation [Hz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe: Gehäuse/Wandler Materials: housing/transducer Materiaux: boîtier/convertisseur  852
QS18UPAEQ8	3073166	12...30	S147	33	-20...+60	IP68/IP69K	ABS/EP
RUN20-M18K-AP8X-H1141 RUN70-M18K-AP8X-H1141	1830034✘ 1830035✘	20...30 20...30	S067 S067	10 5	-25...+70 -25...+70	IP67 IP67	CuZn/EP CuZn/EP
RUN20-M18KS-AP8X-H1141 RUN70-M18KS-AP8X-H1141	1830038✘ 1830039✘	20...30 20...30	S067 S067	10 5	-25...+70 -25...+70	IP67 IP67	CuZn/EP CuZn/EP
S18UBAQ S18UIAQ	3002712✘ 3002703✘	10...30 10...30	S071 S105	100	-20...+60 -20...+60	IP67 IP67	PBT/EP PBT/EP
S18UBARQ S18UIARQ	3002715✘ 3002709✘	10...30 10...30	S071 S105	100	-20...+60 -20...+60	IP67 IP67	PBT/EP PBT/EP
RU30-M18-AP8X-H1141	1810000✘	20...30	S036	5	-25...+70	IP65	CuZn/EP

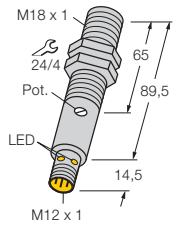

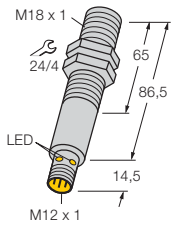

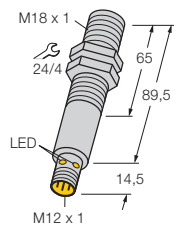

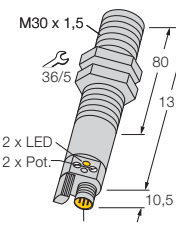

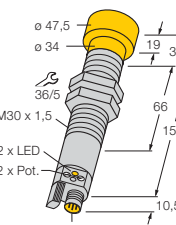

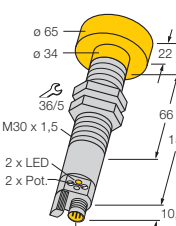

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Ultraschallsensoren

Ultrasonic sensors

Détecteurs ultrasoniques

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Merkmale Features Caractéristiques	Erfassungsbereich Sensing range Portée [cm]	max. Hysterese Max. hysteresis Hystérésis max. [mm]	max. Wiederholgenauigkeit Max. repeat accuracy Reproductibilité max. [mm]	Schallfrequenz Echo frequency Fréquence ultrasonique [Hz]	Ausgang Output Sortie
 <p>M18 x 1 24/4 Pot. LED M12 x 1</p>	M12 x 1 	interface	15...100	10	2	230 —, PNP
 <p>M18 x 1 24/4 LED M12 x 1</p>	M12 x 1 	interface	5...30		1	400 4...20 mA
 <p>M18 x 1 24/4 LED M12 x 1</p>	M12 x 1 	interface	15...100		2	230 4...20 mA
 <p>M30 x 1,5 36/5 2 x LED 2 x Pot. M12 x 1</p>	M12 x 1 	interface	6...30	10	0.45	400 —, PNP
		6...30	10	0.45	400	—, PNP
		6...30	10	0.45	400	—, PNP/4...20 mA
		20...130	10	2	200	—, PNP
		20...130	10	2	200	—, PNP
		20...130	10	2	200	—, PNP/4...20 mA
 <p>ø 47,5 ø 34 36/5 M30 x 1,5 2 x LED 2 x Pot. M12 x 1</p>	M12 x 1 	interface	40...300	20	5	120 —, PNP
		40...300	20	5	120	—, PNP/4...20 mA
 <p>ø 65 ø 34 36/5 M30 x 1,5 2 x LED 2 x Pot. M12 x 1</p>	M12 x 1 	interface	60...600	60	9	80 —, PNP
		60...600	60	9	80	—, PNP
		60...600	60	9	80	—, PNP/4...20 mA

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Betriebs- spannung U _B Operational voltage U _B Tension de service U _B [V]	Anschluss Connection Connexion (IEC 806)	Schalt- frequenz Switching frequency Fréquence de commutation [Hz]	Umgebungs- temperatur Temperature range Température ambiante [°C]	Schutzart Degree of protection Degré de protection	Werkstoffe: Gehäuse/Wandler Materials: housing/transducer Materiaux: boîtier/convertisseur (IEC 852)
RU100-M18-AP8X-H1141	1810200✘	20...30	S036	4	-25...+70	IP65	CuZn/EP
RU30-M18-LIX-H1141	1810005✘	20...30	S038		-25...+70	IP67	CuZn/EP
RU100-M18-LIX-H1141	1810205✘	20...30	S038		-25...+70	IP67	CuZn/EP
RU30-M30-AP8X-H1141	18300✘	20...30	S002	8	-25...+70	IP65	CuZn/EP
RUC30-M30-AP8X-H1141	1840000✘	20...30	S036	8	-25...+70	IP65	CuZn/EP
RUC30-M30-LIAP8X-H1151	1840031✘	20...30	S062	8	-25...+70	IP65	CuZn/EP
RU100-M30-AP8X-H1141	18302✘	20...30	S002	4	-25...+70	IP65	CuZn/EP
RUC130-M30-AP8X-H1141	1840200✘	20...30	S036	0	-25...+70	IP65	CuZn/EP
RUC130-M30-LIAP8X-H1151	1840230✘	20...30	S062	4	-25...+70	IP65	CuZn/EP
RUC300-M3047-AP8X-H1141	1840400✘	20...30	S036	2	-25...+70	IP65	CuZn/EP
RUC300-M3047-LIAP8X-H1151	1840430✘	20...30	S062	2	-25...+70	IP65	CuZn/EP
RU600-M3065-AP8X-H1141	18304✘	20...30	S002	1	-25...+70	IP65	CuZn/EP
RUC600-M3065-AP8X-H1141	1840600✘	20...30	S036	1	-25...+70	IP65	CuZn/EP
RUC600-M3065-LIAP8X-H1151	1840630✘	20...30	S062	1	-25...+70	IP65	CuZn/EP

Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Steckverbindersysteme ESCHA by TURCK

TURCK ist der Vertriebspartner der Firma ESCHA im Bereich der Standardsteckverbinder. Durch diese Vertriebskooperation erhält der Anwender auch im Bereich der Anschlusstechnik das volle Programm aus einer Hand.

Das Steckverbinder-Programm umfasst

- Kabelkupplungen M8, M12
- Kabelstecker M8, M12
- Verlängerungsleitungen M8, M12, 7/8"
- Konfektionierbare Kupplungen und Stecker M8, M12
- Einbau-Flanschkupplungen und Einbau-Flanschstecker, M8, M12
- Verteilerbausteine M8, M12
- Ventilsteckverbinder in Bauformen A, B, C und Industriestandard

Die einseitig konfektionierten Steckverbinder werden in Standardlängen von 2, 5 und 10 m angeboten. Auf Anfrage sind auch Sonderlängen und unterschiedliche Kabelqualitäten lieferbar.

Selbstkonfektionierbare Steckverbinder ergänzen das Programm, so dass ein Anschluss auch mit vorhandenen Leitungen möglich ist.

Für **jeden** steckbaren TURCK-Sensor steht somit die passende Kabelkupplung zur Verfügung.

Kabelqualitäten

- **P00 = PVC:**
Standardqualität
Einsatzgebiete:
- Lebensmittelindustrie
- Förder-, Verpackungs- und Montagetechnik unbelastet
- **S90 = PUR/PVC:**
Allroundkabel, öl- und emulsionsbeständig, feinstdrähtiger Litzenaufbau, hohe Biegewechselfestigkeit, schleppkettentauglich
Einsatzgebiete:
Werkzeugmaschinen, Montage-, und Fertigungsstraße
- **XOR = PVC, strahlenvernetzt:**
Hochtemperaturfest, resistent gegen Schweißperlen
Einsatzgebiete:
Schweißbereich
- **S398 = PUR, strahlenvernetzt:**
hochtemperaturfest, öl- und emulsionsbeständig, enge Verseilung und Füllmaterial, extrem hohe Biegewechselfestigkeit
- **S74 = PUR: halogenfreie Leitungen:**
PUR-/TPE-Mantel, hohe Biegewechselfestigkeit

Weitere Kabelqualitäten siehe Steckverbinderkatalog.

Connector systems ESCHA by TURCK

TURCK is the distribution partner for ESCHA in the area of standard connectors. This sales cooperation enables the user to obtain the full program of connection technology from one source.

The connector range covers

- Female cable connectors M8, M12
- Male cable connectors M8, M12
- Extension cables M8, M12, 7/8"
- Field wireable female/male connectors M8, M12
- Male / female receptacles M8, M12
- Junction modules M8, M12
- Valve connectors in housing styles A, B, C and industrial standard

Cables with connectors on one end are available in standard lengths of 2, 5 and 10 m. Special lengths and a variety of cable qualities are available on request.

Field-wireable connector types complement the range, so that the customer can continue to use existing cabling concepts.

The appropriate cable connector is thus available for **every** TURCK sensor.



Systemes de connexion ESCHA by TURCK

Cable qualities

- **P00 = PVC:**
Standard quality
Application fields:
- Food industry
- Conveyor-, packaging and assembly technology
- **S90 = PUR/PVC:**
Allround cable, oil and emulsion resistant with a fine litz wire design and high bending flexibility, trailing capability
Application fields:
Tooling machines, assembly and production lines
- **XOR = PVC, irradiation crosslinked:**
Resistant to high temperatures, resistant to weld-splatter
Application fields:
Welding field
- **S398 = PUR, irradiation crosslinked:**
Resistant to high temperatures, oil and emulsion, fine stranding filling material, extremely high bending flexibility
- **S74 = PUR: Halogen-free cables:**
PUR-/TPE jacket, high bending flexibility

Refer to connector catalogue for other cable qualities.

TURCK est le partenaire commercial de la société ESCHA dans le domaine des connecteurs standard. Grâce à cette coopération nous pouvons offrir à nos clients une gamme de systèmes de connexion d'une seule main.

Le programme comporte

- des connecteurs femelles M8, M12
- des connecteurs mâles M8, M12
- des rallonges M8, M12, 7/8"
- des connecteurs femelles et mâles confectionnables M8, M12
- des embases femelles et mâles, M8, M12
- des répartiteurs M8, M12
- des connecteurs d'électrovannes en format A, B, C et norme industrielle

Les connecteurs confectionnés d'un côté sont disponibles en longueur standard de 2, 5 ou 10 mètres.

Sont livrables sur demande d'autres longueurs et des qualités spéciales de câble.

Des connecteurs confectionnables complètent le programme de telle sorte que le raccordement peut être réalisé à l'aide des câbles déjà disponibles.

Pour **chaque** détecteur TURCK est disponible un connecteur femelle approprié.

Qualités de câble

- **P00 = PVC:**
Qualité standard
Champs d'application:
- industrie agro-alimentaire
- technique de transport, d'emballage et de montage non chargée
- **S90 = PUR/PVC:**
Câble à usage général, résistant à l'huile et l'émulsion, les brins ont une section très faible pour une bonne résistance en flexion, utilisable sur chaînes de transport de câble
Champs d'application:
Machines-outils, chaînes de montage et de production
- **XOR = PVC, irradié:**
résiste aux températures élevées et à l'étincelage sur les installations de soudage
Champs d'application:
Applications de soudure
- **S398 = PUR, irradié:**
Résiste aux températures élevées, aux huiles et émulsion, toronnage et matériau isolant fermes, très haute résistance aux efforts de flexion
- **S74 = PUR: câbles sans halogène:**
gaine PUR/TPE, haute résistance aux efforts de flexion

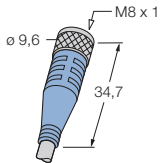

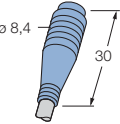

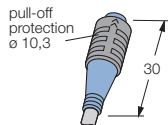

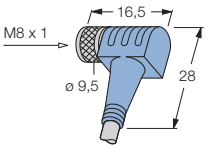

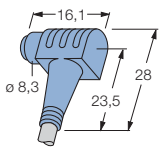

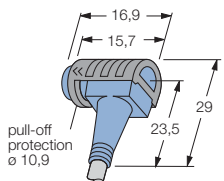

Autres versions de câble:
voir catalogue «systèmes de connexion»



Rundsteckverbinder M8 – Kupplung

Round connector M8 – Female connector

Connecteurs femelles M8

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Kabelfarbe Cable colour Couleur de câble	Werkstoffe Materials Matériaux Kabelmantel/ Cable jacket/ Gaine de protection	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated voltage Tension nominale [V]		
	M8 x 1 	3	GY	PVC	4	60	
		3	YE	PVC-I	4	60	
		3	GY	PUR/PVC	4	60	
		4	GY	PVC	4	30	
		4	YE	PVC-I	4	30	
		4	GY	PUR/PVC	4	30	
	Ø 8 mm 	3	GY	PVC	4	60	
		3	YE	PVC-I	4	60	
		3	GY	PUR/PVC	4	60	
		4	GY	PVC	4	30	
		4	GY	PVC-I	4	30	
		4	GY	PUR/PVC	4	30	
	Ø 8 mm 	3	GY	PVC	4	60	
		3	YE	PVC-I	4	60	
		3	GY	PUR/PVC	4	60	
		4	GY	PVC	4	30	
		4	YE	PVC-I	4	30	
		4	GY	PUR/PVC	4	30	
	M8 x 1 	3	GY	PVC	4	60	
		3	YE	PVC-I	4	60	
		3	GY	PUR/PVC	4	60	
		4	GY	PVC	4	30	
		4	YE	PVC-I	4	30	
		4	GY	PUR/PVC	4	30	
	Ø 8 mm 	3	GY	PVC	4	60	
		3	YE	PVC-I	4	60	
		3	GY	PUR/PVC	4	60	
		4	GY	PVC	4	30	
		4	YE	PVC-I	4	30	
		4	GY	PUR/PVC	4	30	
	Ø 8 mm 	3	GY	PVC	4	60	
		3	YE	PVC-I	4	60	
		3	GY	PUR/PVC	4	60	
		4	GY	PVC	4	30	
		4	YE	PVC-I	4	30	
		4	GY	PUR/PVC	4	30	

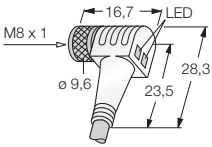
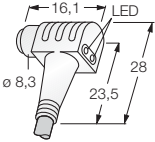
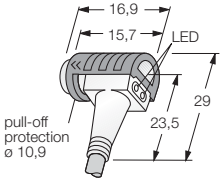
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Ident-Nr. Ident no. No. d'ident.	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		Schutzart Degree of protection Degré de protection	LED	
					Stecker Connector Connecteur	Leitung Cable Câble		U _B	└┘
SKP3-.../P00	8007331	8007335	8007339	C009	-30...+90	-40...+80	IP67		
SKP3-.../XOR	8007333	8007337	8007341	C009	-30...+90	-40...+80	IP67		
SKP3-.../S90	8007332	8007336	8007340	C009	-30...+90	-40...+80	IP67		
SKP4-.../P00	8007343	8007345	8007347	C010	-30...+90	-40...+80	IP67		
SKP4-.../XOR	8009420	8009421	8009423	C010	-30...+90	-40...+80	IP67		
SKP4-.../S90	8007344	8007346	8007348	C010	-30...+90	-40...+80	IP67		
KP3-.../P00	8007277	8007281	8007285	C009	-30...+90	-40...+80	IP67		
KP3-.../XOR	8007279	8007283	8007287	C009	-30...+90	-40...+80	IP67		
KP3-.../S90	8007278	8007282	8007286	C009	-30...+90	-40...+80	IP67		
KP4-.../P00	8007289	8007291	8007293	C010	-30...+90	-40...+80	IP67		
KP4-.../XOR	8009411	8009412	8009413	C010	-30...+90	-40...+80	IP67		
KP4-.../S90	8007290	8007292	8007294	C010	-30...+90	-40...+80	IP67		
ZKP3-.../P00	8007406	8007410	8007414	C009	-30...+90	-40...+80	IP67		
ZKP3-.../XOR	8007408	8007412	8007416	C009	-30...+90	-40...+80	IP67		
ZKP3-.../S90	8007407	8007411	8007415	C009	-30...+90	-40...+80	IP67		
ZKP4-.../P00	8007418	8007421	8007424	C010	-30...+90	-40...+80	IP67		
ZKP4-.../XOR	8007420	8007423	8007426	C010	-30...+90	-40...+80	IP67		
ZKP4-.../S90	8007419	8007422	8007425	C010	-30...+90	-40...+80	IP67		
SWKP3-.../P00	8007367	8007371	8007375	C009	-30...+90	-40...+80	IP67		
SWKP3-.../XOR	8007369	8007373	8007377	C009	-30...+90	-40...+80	IP67		
SWKP3-.../S90	8007368	8007372	8007376	C009	-30...+90	-40...+80	IP67		
SWKP4-.../P00	8007379	8007381	8007383	C010	-30...+90	-40...+80	IP67		
SWKP4-.../XOR	8009434	8009435	8009436	C010	-30...+90	-40...+80	IP67		
SWKP4-.../S90	8007380	8007382	8007384	C010	-30...+90	-40...+80	IP67		
WKP3-.../P00	8007313	8007317	8007321	C009	-30...+90	-40...+80	IP67		
WKP3-.../XOR	8007315	8007319	8007323	C009	-30...+90	-40...+80	IP67		
WKP3-.../S90	8007314	8007318	8007322	C009	-30...+90	-40...+80	IP67		
WKP4-.../P00	8007325	8007327	8007329	C010	-30...+90	-40...+80	IP67		
WKP4-.../XOR	8009417	8009418	8009419	C010	-30...+90	-40...+80	IP67		
WKP4-.../S90	8007326	8007328	8007330	C010	-30...+90	-40...+80	IP67		
ZWKP3-.../P00	8007427	8007431	8007435	C009	-30...+90	-40...+80	IP67		
ZWKP3-.../XOR	8007429	8007433	8007437	C009	-30...+90	-40...+80	IP67		
ZWKP3-.../S90	8007428	8007432	8007436	C009	-30...+90	-40...+80	IP67		
ZWKP4-.../P00	8007439	8007441	8007443	C010	-30...+90	-40...+80	IP67		
ZWKP4-.../XOR	8009442	8009443	8009444	C010	-30...+90	-40...+80	IP67		
ZWKP4-.../S90	8007440	8007442	8007444	C010	-30...+90	-40...+80	IP67		

Sensortechnik/Sensors/
Détecteurs

Rundsteckverbinder M8 – Kupplung

Round connector M8 – Female connector

Connecteurs femelles M8

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Kabelfarbe Cable colour Couleur de câble	Werkstoffe Materials Matériaux Kabelmantel/ Cable jacket/ Gaine de protection	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated voltage Tension nominale [V]	
	M8 x 1 -C	3	GY	PVC	4	10...30 V
		3	YE	PVC-I	4	10...30 V
		3	GY	PUR/PVC	4	10...30 V
		4	GY	PVC	4	10...30 V
		4	YE	PVC-I	4	10...30 V
		4	GY	PUR/PVC	4	10...30 V
	Ø 8 mm -C	3	GY	PVC	4	10...30 V
		3	YE	PVC-I	4	10...30 V
		3	GY	PUR/PVC	4	10...30 V
		4	GY	PVC	4	10...30 V
		4	YE	PVC-I	4	10...30 V
		4	GY	PUR/PVC	4	10...30 V
	Ø 8 mm -C	3	GY	PVC	4	10...30 V
		3	YE	PVC-I	4	10...30 V
		3	GY	PUR/PVC	4	10...30 V
		4	GY	PVC	4	10...30 V
		4	YE	PVC-I	4	10...30 V
		4	GY	PUR/PVC	4	10...30 V

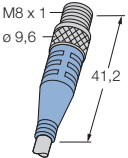
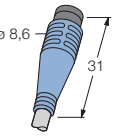
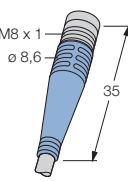
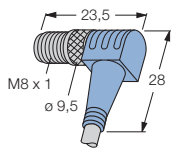
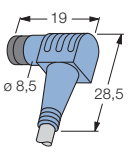
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Ident-Nr. Ident no. No. d'ident.	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (☎ 806)	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		Schutzart Degree of protection Degré de protection	LED	
					Stecker Connector Connecteur	Leitung Cable Câble		U _B	
								•	•
SWKP3P2-.../P00	8010360	8010364	8010366	C009	-30...+90	-40...+80	IP67	•	•
SWKP3P2-.../XOR	8010362	8009446	8010367	C009	-30...+90	-40...+80	IP67	•	•
SWKP3P2-.../S90	8010361	8009445	8009447	C009	-30...+90	-40...+80	IP67	•	•
SWKP4P2-.../P00	8010370	8010373	8010375	C010	-30...+90	-40...+80	IP67	•	•
SWKP4P2-.../XOR	8010372	8010374	8010377	C010	-30...+90	-40...+80	IP67	•	•
SWKP4P2-.../S90	8010371	8010081	8010376	C010	-30...+90	-40...+80	IP67	•	•
WKP3P2-.../P00	8010339	8010343	8010347	C009	-30...+90	-40...+80	IP67	•	•
WKP3P2-.../XOR	8010341	8010345	8010349	C009	-30...+90	-40...+80	IP67	•	•
WKP3P2-.../S90	8010340	8010344	8010348	C009	-30...+90	-40...+80	IP67	•	•
WKP4P2-.../P00	8010351	8010354	8010357	C010	-30...+90	-40...+80	IP67	•	•
WKP4P2-.../XOR	8010353	8010356	8010359	C010	-30...+90	-40...+80	IP67	•	•
WKP4P2-.../S90	8010352	8010355	8010358	C010	-30...+90	-40...+80	IP67	•	•
ZWKP3P2-.../P00	8010378	8010382	8010385	C009	-30...+90	-40...+80	IP67	•	•
ZWKP3P2-.../XOR	8010380	8010383	8010386	C009	-30...+90	-40...+80	IP67	•	•
ZWKP3P2-.../S90	8010379	8009448	8009449	C009	-30...+90	-40...+80	IP67	•	•
ZWKP4P2-.../P00	8010388	8010391	8010394	C010	-30...+90	-40...+80	IP67	•	•
ZWKP4P2-.../XOR	8010390	8010393	8010396	C010	-30...+90	-40...+80	IP67	•	•
ZWKP4P2-.../S90	8010389	8010392	8010395	C010	-30...+90	-40...+80	IP67	•	•

Sensortechnik/Sensors/
Détecteurs

Rundsteckverbinder M8 – Stecker

Round connector M8 – Male connector

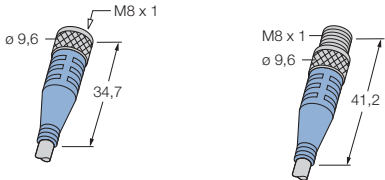

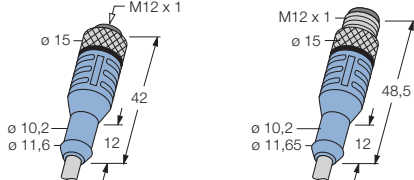

Connecteurs mâles M8

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Kabelfarbe Cable colour Couleur de câble	Werkstoffe Materials Matériaux Kabelmantel/ Cable jacket/ Gaine de protection	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated voltage Tension nominale [V]	
 <p>M8 x 1 ø 9,6 41,2</p>	M8 x 1 —	3	GY	PVC	4	60
		3	GY	PVC-I	4	60
		3	GY	PUR/PVC	4	60
		4	GY	PVC	4	30
		4	GY	PVC-I	4	30
		4	GY	PUR/PVC	4	30
 <p>ø 8,6 31</p>	Ø 8 mm —	3	GY	PVC	4	60
		3	GY	PVC-I	4	60
		3	GY	PUR/PVC	4	60
		4	GY	PVC	4	30
		4	GY	PVC-I	4	30
		4	GY	PUR/PVC	4	30
 <p>M8 x 1 ø 8,6 35</p>	M8 x 1 —	3	GY	PVC	4	60
		3	GY	PVC-I	4	60
		3	GY	PUR/PVC	4	60
		4	GY	PVC	4	30
		4	GY	PVC-I	4	30
		4	GY	PUR/PVC	4	30
 <p>M8 x 1 ø 9,5 23,5 28</p>	M8 x 1 —	3	GY	PVC	4	60
		3	GY	PVC-I	4	60
		3	GY	PUR/PVC	4	60
		4	GY	PVC	4	30
		4	GY	PVC-I	4	30
		4	GY	PUR/PVC	4	30
 <p>19 ø 8,5 28,5</p>	Ø 8 mm —	3	GY	PVC	4	60
		3	GY	PVC-I	4	60
		3	GY	PUR/PVC	4	60
		4	GY	PVC	4	30
		4	GY	PVC-I	4	30
		4	GY	PUR/PVC	4	30

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Ident-Nr. Ident no. No. d'ident.	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (EN 806)	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		Schutzart Degree of protection Degré de protection	LED	
					Stecker Connector Connecteur	Leitung Cable Câble		U _B	
SSP3-.../P00	8007349	8007353	8007357	C030	-30...+90	-40...+80	IP67		
SSP3-.../XOR	8007351	8007355	8007359	C030	-30...+90	-40...+80	IP67		
SSP3-.../S90	8007350	8007354	8007358	C030	-30...+90	-40...+80	IP67		
SSP4-.../P00	8007361	8007363	8007365	C029	-30...+90	-40...+80	IP67		
SSP4-.../XOR	8009428	8009429	8009430	C029	-30...+90	-40...+80	IP67		
SSP4-.../S90	8007362	8007364	8007366	C029	-30...+90	-40...+80	IP67		
SP3-.../P00	8007295	8007299	8007303	C030	-30...+90	-40...+80	IP67		
SP3-.../XOR	8007297	8007301	8007305	C030	-30...+90	-40...+80	IP67		
SP3-.../S90	8007296	8007300	8007304	C030	-30...+90	-40...+80	IP67		
SP4-.../P00	8007307	8007309	8007311	C029	-30...+90	-40...+80	IP67		
SP4-.../XOR	8009414	8009415	8009416	C029	-30...+90	-40...+80	IP67		
SP4-.../S90	8007308	8007310	8007312	C029	-30...+90	-40...+80	IP67		
SSFP3-.../P00	8006689	8006693	8006697	C030	-30...+90	-40...+80	IP67		
SSFP3-.../XOR	8006691	8006695	8006699	C030	-30...+90	-40...+80	IP67		
SSFP3-.../S90	8006690	8006694	8006698	C030	-30...+90	-40...+80	IP67		
SSFP4-.../P00	8023414	8023415	8023416	C029	-30...+90	-40...+80	IP67		
SSFP4-.../XOR	8023420	8023421	8023422	C029	-30...+90	-40...+80	IP67		
SSFP4-.../S90	8023417	8023418	8023419	C029	-30...+90	-40...+80	IP67		
SWSP3-.../P00	8007385	8007389	8007393	C030	-30...+90	-40...+80	IP67		
SWSP3-.../XOR	8007387	8007391	8007395	C030	-30...+90	-40...+80	IP67		
SWSP3-.../S90	8007386	8007390	8007394	C030	-30...+90	-40...+80	IP67		
SWSP4-.../P00	8007397	8007399	8007401	C029	-30...+90	-40...+80	IP67		
SWSP4-.../XOR	8009438	8009439	8009440	C029	-30...+90	-40...+80	IP67		
SWSP4-.../S90	8007398	8007400	8007402	C029	-30...+90	-40...+80	IP67		
WSP3-.../P00	8017715	8022187	8018645	C030	-30...+90	-40...+80	IP67		
WSP3-.../XOR	8022192	8022193	8022194	C030	-30...+90	-40...+80	IP67		
WSP3-.../S90	8022188	8022189	8022190	C030	-30...+90	-40...+80	IP67		
WSP4-.../P00	8022202	8022203	8022204	C029	-30...+90	-40...+80	IP67		
WSP4-.../XOR	8022208	8022209	8022210	C029	-30...+90	-40...+80	IP67		
WSP4-.../S90	8022205	8022206	8022207	C029	-30...+90	-40...+80	IP67		

Sensortechnik/Sensors/
Détecteurs

Verbindungsleitungen M8, M12
Connection cables M8, M12
Câbles de raccordement M8, M12

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Kabelfarbe Cable colour Couleur de câble	Werkstoffe Materials Matériaux Kabelmantel/ Cable jacket/ Gaine de protection	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated voltage Tension nominale [V]	
 <p>M8 x 1</p> <p>⊘ 9,6 M8 x 1 34,7</p> <p>⊘ 9,6 M8 x 1 41,2</p>	3	GY	PVC	4	60	
	3	YE	PVC-I	4	60	
	3	GY	PUR/PVC	4	60	
	4	GY	PVC	4	30	
	4	YE	PVC-I	4	30	
	4	GY	PUR/PVC	4	30	
 <p>M12 x 1</p> <p>⊘ 15 M12 x 1 42</p> <p>⊘ 10,2 ⊘ 11,6</p> <p>⊘ 15 M12 x 1 48,5</p> <p>⊘ 10,2 ⊘ 11,65</p>	3	GY	PVC	4	250	
	3	YE	PVC-I	4	250	
	3	GY	PUR/PVC	4	250	
	4	GY	PVC	4	250	
	4	YE	PVC-I	4	250	
	4	GY	PUR/PVC	4	250	

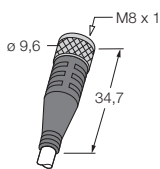
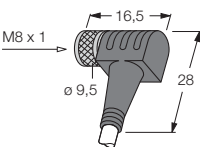
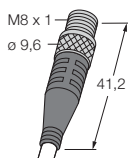
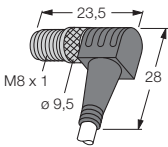
Typenbezeichnung Type Type	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Anschluss Connection Connexion (IEC 806)	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		LED	
	Ident no.	Ident no.	Ident no.	Ident no.	Ident no.	Ident no.		Stecker Connector Connecteur	Leitung Cable Câble	U _B	
	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.		0,3 m	0,6 m		
SKP3-...-SSP3/P00	8008687	8008688	8008682	8016400	8008684	8022742	C009/C030	-30...+90	-40...+80		
SKP3-...-SSP3/XOR	8022743	8022744	8022745	8022746	8009494	8022747	C009/C030	-30...+90	-40...+80		
SKP3-...-SSP3/S90	8009496	8008689	8008683	8008690	8008685	8008686	C009/C030	-30...+90	-40...+80		
SKP4-...-SSP4/P00	8017452	8022751	8017614	8017613	8009498	8019844	C010/C029	-30...+90	-40...+80		
SKP4-...-SSP4/XOR	8022755	8022756	8022757	8022758	8009499	8022759	C010/C029	-30...+90	-40...+80		
SKP4-...-SSP4/S90	8022573	8018728	8018729	8022753	8014303	8009500	C010/C029	-30...+90	-40...+80		
WAK3-...-WAS3/P00	8006716	8006721	8006701	8006726	8006706	8006711	C001/C004	-30...+90	-40...+80		
WAK3-...-WAS3/XOR	8006718	8006723	8006703	8006728	8006708	8006713	C001/C004	-30...+90	-40...+80		
WAK3-...-WAS3/S90	8006717	8006722	8006702	8006727	8006707	8006712	C001/C004	-30...+90	-40...+80		
WAK4-...-WAS4/P00	8006752	8006759	8006731	8006766	8006738	8006745	C002/C005	-30...+90	-40...+80		
WAK4-...-WAS4/XOR	8006754	8006761	8006733	8006768	8006740	8006747	C002/C005	-30...+90	-40...+80		
WAK4-...-WAS4/S90	8006753	8006760	8006732	8006767	8006739	8006746	C002/C005	-30...+90	-40...+80		

Sensortechnik/Sensors/
Détecteurs

Hochtemperaturfeste Leitungen M8

High temperature resistant cables M8

Câbles résistant aux températures très élevées M8

Abmessungen/Bauforn Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Kabelfarbe Cable colour Couleur de câble	Werkstoffe Materials Matériaux Kabelmantel/ Cable jacket/ Gaine de protection	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated voltage Tension nominale [V]	
	M8 x 1	3	WH	PTFE	4	60
	☾	4	WH	PTFE	4	60
	M8 x 1	3	WH	PTFE	4	60
	☾	4	WH	PTFE	4	60
	M8 x 1	3	WH	PTFE	4	60
	—	4	WH	PTFE	4	60
	M8 x 1	3	WH	PTFE	4	60
	—	4	WH	PTFE	4	60

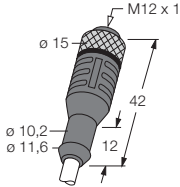
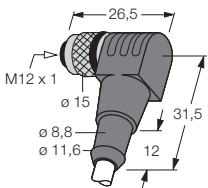

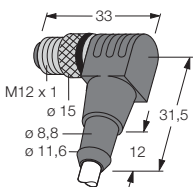


Typenbezeichnung Type Type	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Anschluss	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		LED	
	Ident no.	Ident no.	Ident no.	Ident no.	Ident no.	Ident no.	Connection	Stecker Connector Connecteur	Leitung Cable Câble	U _B	
	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	Connexion			(IEC 806)	┐
	0,3 m	0,6 m	1 m	1,5 m	2 m	5 m					
SKP3-5/S2429/S2430	-	-	-	-	-	8036097	C009	-20...+150	-190...+260		
SKP4-5/S2429/S2430	-	-	-	-	-	8036098	C010	-20...+150	-190...+260		
SWKP3-5/S2429/S2430	-	-	-	-	-	8036099	C009	-20...+150	-190...+260		
SWKP4-5/S2429/S2430	-	-	-	-	-	8036100	C010	-20...+150	-190...+260		
SSP3-5/S2429/S2430	-	-	-	-	-	8036101	C030	-20...+150	-190...+260		
SSP4-5/S2429/S2430	-	-	-	-	-	8036102	C029	-20...+150	-190...+260		
SWSP3-5/S2429/S2430	-	-	-	-	-	8036103	C030	-20...+150	-190...+260		
SWSP4-5/S2429/S2430	-	-	-	-	-	8036104	C029	-20...+150	-190...+260		

Sensortechnik/Sensors/
Détecteurs

Hochtemperaturfeste Leitungen M12

High temperature resistant cables M12



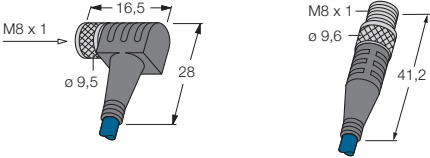

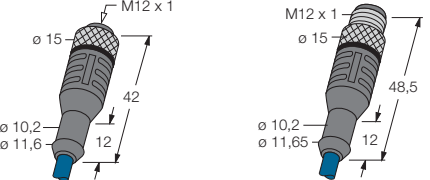

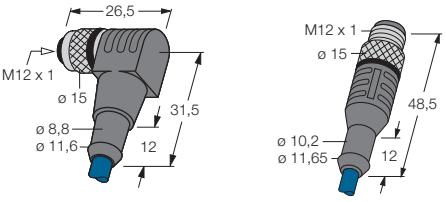

Câbles résistant aux températures très élevées M12

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Kabelfarbe Cable colour Couleur de câble	Werkstoffe Materials Matériaux Kabelmante/ Cable jacket/ Gaine de protection	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated voltage Tension nominale [V]	
	M12 x 1 3	WH	PTFE	4	60	☺
	4	WH	PTFE	4	60	
	M12 x 1 3	WH	PTFE	4	60	☺
	4	WH	PTFE	4	60	
	M12 x 1 3	WH	PTFE	4	60	—
	4	WH	PTFE	4	60	
	M12 x 1 3	WH	PTFE	4	60	—
	4	WH	PTFE	4	60	
 	M12 x 1 4	WH	PTFE	4	60	— ☺
	4	WH	PTFE	4	60	
	4	WH	PTFE	4	60	

Typenbezeichnung Type Type	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Anschluss	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		LED	
	Ident no.	Ident no.	Ident no.	Ident no.	Ident no.	Ident no.	Connection	Stecker Connector Connecteur	Leitung Cable Câble	U _B	
	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	Connexion			(IEC 806)	
	0,3 m	0,6 m	1 m	1,5 m	2 m	5 m					
WAK3-5/S2429/S2430	-	-	-	-	-	8036085	C001	-20...+150	-190...+260		
WAK4-5/S2429/S2430	-	-	-	-	-	8036086	C002	-20...+150	-190...+260		
WWAK3-5/S2429/S2430	-	-	-	-	-	8036088	C001	-20...+150	-190...+260		
WWAK4-5/S2429/S2430	-	-	-	-	-	8036089	C002	-20...+150	-190...+260		
WAS3-5/S2429/S2430	-	-	-	-	-	8036091	C004	-20...+150	-190...+260		
WAS4-5/S2429/S2430	-	-	-	-	-	8036092	C005	-20...+150	-190...+260		
WWAS3-5/S2429/S2430	-	-	-	-	-	8036094	C004	-20...+150	-190...+260		
WWAS4-5/S2429/S2430	-	-	-	-	-	8036095	C005	-20...+150	-190...+260		
WAS4-1-WAK4/S2429/S2430	-	-	8038667	-	-	-	C005/C002	-20...+150	-190...+260		
WAS4-2-WAK4/S2429/S2430	-	-	-	-	8038668	-	C005/C002	-20...+150	-190...+260		
WAS4-5-WAK4/S2429/S2430	-	-	-	-	-	8038669	C005/C002	-20...+150	-190...+260		

Sensortechnik/Sensors/
Détecteurs

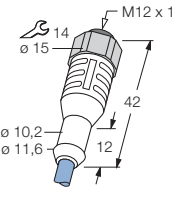
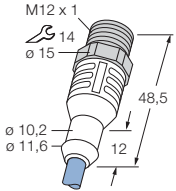
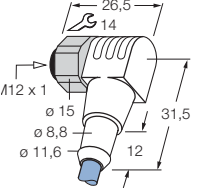
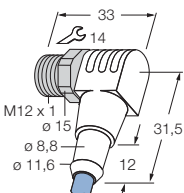
Hochflexible Leitungen für Energieführungsketten M8/M12 (Mindestbiegeradius 5 x D)
High-flex cable for energy chains M8/M12 (minimum bending radius 5 x D)
Lignes très flexibles pour les chaînes de guidage d'éléments de transport d'énergie M8/M12 (rayon de courbure min. 5 x D)



Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Kabelfarbe Cable colour Couleur de câble	Werkstoffe Materials Matériaux Kabelmantel/ Cable jacket/ Gaine de protection	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated voltage Tension nominale [V]	
	M8 x 1 	3	BU	TPE	4	250
	M8 x 1 	3	BU	TPE	4	250
	M12 x 1 	4	BU	TPE	4	250
	M12 x 1 	4	BU	TPE	4	250

	Typenbezeichnung	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Anschluss	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		LED	
	Type	Ident no.	Ident no.	Ident no.	Ident no.	Ident no.	Ident no.	Connection	Stecker Connector Connecteur	Leitung Cable Câble	U _B	
	Type	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	Connexion				
		0,6 m	1 m	1,5 m	2 m	5 m	10 m					
	SKP3-...-SSP3/S2119	–	–	–	8033733	8033734	8033735	C009/C030	-40...+105	-35...+100		
	SWKP3-2-SSP3/S2119	–	–	–	8033737	8033738	8033739	C009/C030	-40...+105	-35...+100		
	WAK4-...-WAS4/S2119	–	–	–	8033741	8033742	8033743	C002/C005	-40...+105	-35...+100		
	WWAK4-2-WAS4/S2119	–	–	–	8033745	8033747	8033748	C002/C005	-40...+105	-35...+100		

Sensortechnik/Sensors/
Détecteurs

Anschlussleitungen für Food and Beverage M12
Connection cable for Food and Beverage M12
Câbles de raccordement pour Food and Beverage M12

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Kabelfarbe Cable colour Couleur de câble	Werkstoffe Materials Matériaux Kabelmantel/ Cable jacket/ Gaine de protection	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated voltage Tension nominale [V]	
	M12 x 1 ☺	4	GY	PP	4	250
	M12 x 1 —	4	GY	PP	4	250
	M12 x 1 ☺	4	GY	PP	4	250
	M12 x 1 —	4	GY	PP	4	250

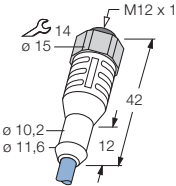
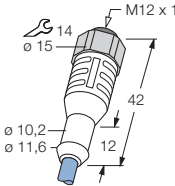

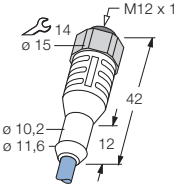
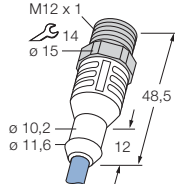

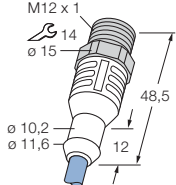
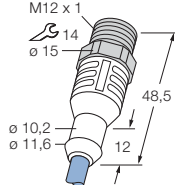

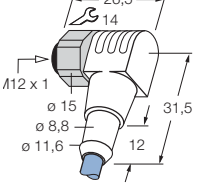
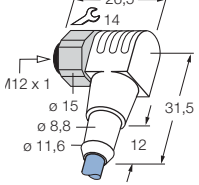

Typenbezeichnung Type Type	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Anschluss Connection Connexion  806	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		LED	
	Ident no.	Ident no.	Ident no.	Ident no.	Ident no.	Ident no.	Ident no.		Stecker Connector Connecteur	Leitung Cable Câble	U _B	
	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.					
	0,6 m	1 m	1,5 m	5 m	10 m	15 m						
FB-WAK4-.../S2300	-	-	-	8033664	8033665	8033666	C002	-40...+105	-40...+105			
FB-WAS4-.../S2300	-	-	-	8033670	8033671	8033672	C005	-40...+105	-40...+105			
FB-WWAK4-.../S2300	-	-	-	8033667	8033668	8033669	C002	-40...+105	-40...+105			
FB-WWAS4-.../S2300	-	-	-	8033673	8033674	8033675	C005	-40...+105	-40...+105			

Sensortechnik/Sensors/
Détecteurs

Verbindungsleitungen für Food and Beverage M12

Connection cable for Food and Beverage M12

Câbles de raccordement pour Food and Beverage M12

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Kabelfarbe Cable colour Couleur de câble	Werkstoffe Materials Matériaux Kabelmantel/ Cable jacket/ Gaine de protection	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated voltage Tension nominale [V]	
  M12 x 1 	4	GY	PP	4	250	
  M12 x 1 	4	GY	PP	4	250	
  M12 x 1 	4	GY	PP	4	250	
  M12 x 1 	4	GY	PP	4	250	

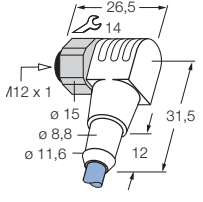
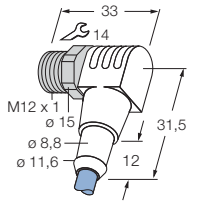
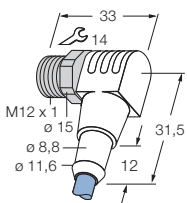
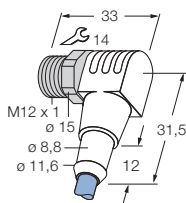
	Typenbezeichnung	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Anschluss	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		LED	
	Type	Ident no.	Ident no.	Ident no.	Ident no.	Ident no.	Connection	Stecker Connector Connecteur	Leitung Cable Câble	U _B	└┘
	Type	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	Connexion				
		1 m	1,5 m	5 m	10 m	15 m	(IEC 806)				
	FB-WAK4- ...-FB-WAK4/S2300	-	-	8033681	8033682	8033683	C002/C002	-40...+105	-40...+105		
	FB-WAK4-...-FB-WAS4/S2300	-	-	8033677	8033678	8033679	C002/C005	-40...+105	-40...+105		
	FB-WAS4-...-FB-WAS4/S2300	-	-	8033685	8033686	8033687	C005/C005	-40...+105	-40...+105		
	FB-WWAK4-...-FB-WWAK4/S2300	-	-	8033693	8033694	8033695	C002/C002	-40...+105	-40...+105		

Sensortechnik/Sensors/
Détecteurs

Verbindungsleitungen für Food and Beverage M12

Connection cable for Food and Beverage M12

Câbles de raccordement pour Food and Beverage M12

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Kabelfarbe Cable colour Couleur de câble	Werkstoffe Materials Matériaux Kabelmantel/ Cable jacket/ Gaine de protection	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated voltage Tension nominale [V]	
 	M12 x 1 4	GY	PP	4	250	⊖ ⊖
 	M12 x 1 4	GY	PP	4	250	⊖ —

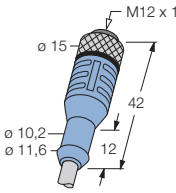
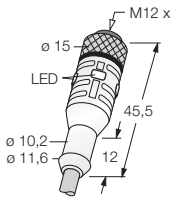

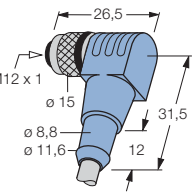
	Typenbezeichnung	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Ident-Nr.	Anschluss	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		LED	
	Type	Ident no.	Ident no.	Ident no.	Ident no.	Ident no.	Connection	Stecker Connector Connecteur	Leitung Cable Câble	U _B	└┘
	Type	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	No. d'ident.	Connexion				
		1 m	1,5 m	5 m	10 m	15 m	(IEC 806)				
	FB-WWAK4-...-FB-WWAS4/S2300	-	-	8033689	8033690	8033691	C002/C005	-40...+105	-40...+105		
	FB-WWAS4-...-FB-WWAS4/S2300	-	-	8033697	8033698	8033699	C005/C005	-40...+105	-40...+105		

Sensortechnik/Sensors/
Détecteurs

Rundsteckverbinder M12 – Kupplung

Round connector M12 – Female connector

Connecteurs femelles M12

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Kabelfarbe Cable colour Couleur de câble	Werkstoffe Materials Matériaux Kabelmantel/ Cable jacket/ Gaine de protection	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated voltage Tension nominale [V]		
	M12 x 1	-	3	GY	PVC	4	250
			3	YE	PVC-I	4	250
			3	GY	PUR/PVC	4	250
			3	GY	PUR/PP	4	250
			4	GY	PVC	4	250
			4	YE	PVC-I	4	250
			4	GY	PUR/PVC	4	250
			4	GY	PUR/PP	4	250
			5	GY	PVC	4	60
			5	YE	PVC-I	4	60
			5	GY	PUR/PVC	4	60
			5	GY	PUR/PP	4	60
	M12 x 1	-	3	GY	PVC	4	10...30
			3	YE	PVC-I	4	10...30
			3	GY	PUR/PVC	4	10...30
			3	GY	PUR/PP	4	10...30
			4	GY	PVC	4	10...30
			4	YE	PVC-I	4	10...30
			4	GY	PUR/PVC	4	10...30
			4	GY	PUR/PP	4	10...30
NAMUR 	M12 x 1	-	2	BU	PVC	4	250
			2	BU	PVC	4	250
	M12 x 1	-	3	GY	PVC	4	250
			3	YE	PVC-I	4	250
			3	GY	PUR/PVC	4	250
			4	GY	PVC	4	250
			4	YE	PVC-I	4	250
			4	GY	PUR/PVC	4	250
			5	GY	PVC	4	60
			5	YE	PVC-I	4	60
			5	GY	PUR/PVC	4	60

¹⁾ halogenfrei/halgen free/exempt d'halogène

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Ident-Nr. Ident no. No. d'ident.	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		Schutzart Degree of protection Degré de protection	LED	
					Stecker Connector Connecteur	Leitung Cable Câble		U _B	└┘
WAK3-.../P00	8007031	8007036	8007041	C001	-30...+90	-40...+80	IP67		
WAK3-.../XOR	8007033	8007038	8007043	C001	-30...+90	-40...+80	IP67		
WAK3-.../S90	8007032	8007037	8007042	C001	-30...+90	-40...+80	IP67		
WAK3-.../S366 1)	8019944	8019945	8019946	C001	-30...+90	-40...+90	IP67		
WAK4-.../P00	8007046	8007053	8007060	C002	-30...+90	-40...+80	IP67		
WAK4-.../XOR	8007048	8007055	8007062	C002	-30...+90	-40...+80	IP67		
WAK4-.../S90	8007047	8007054	8007061	C002	-30...+90	-40...+80	IP67		
WAK4-.../S366 1)	8019947	8019957	8019958	C002	-30...+90	-40...+90	IP67		
WAK5-.../P00	8007067	8007072	8007077	C003	-30...+90	-40...+80	IP67		
WAK5-.../XOR	8007069	8007074	8007079	C003	-30...+90	-40...+80	IP67		
WAK5-.../S90	8007068	8007073	8007078	C003	-30...+90	-40...+80	IP67		
WAK5-.../S366 1)	8019959	8019960	8019961	C003	-30...+90	-40...+90	IP67		
WAK3P2-.../P00	8007235	8007240	8007245	C001	-30...+90	-40...+80	IP67	•	•
WAK3P2-.../XOR	8007237	8007242	8007247	C001	-30...+90	-40...+80	IP67	•	•
WAK3P2-.../S90	8007236	8007241	8007246	C001	-30...+90	-40...+80	IP67	•	•
WAK3P2-.../S366 1)	8019966	8019967	8019968	C001	-30...+90	-40...+90	IP67	•	•
WAK4P2-.../P00	8007250	8007257	8007264	C002	-30...+90	-40...+80	IP67	•	•
WAK4P2-.../XOR	8007252	8007259	8007266	C002	-30...+90	-40...+80	IP67	•	•
WAK4P2-.../S90	8007251	8007258	8007265	C002	-30...+90	-40...+80	IP67	•	•
WAK4P2-.../S366 1)	8019972	8019973	8019974	C002	-30...+90	-40...+90	IP67	•	•
WAK4.21-.../P00	8013894	8014965	8013815	C008	-30...+90	-40...+80	IP67		
WAK4.21-.../S90	8016847	8014484	8017357	C008	-30...+90	-40...+80	IP67		
WWAK3-.../P00	8007133	8007138	8007143	C001	-30...+90	-40...+80	IP67		
WWAK3-.../XOR	8007135	8007140	8007145	C001	-30...+90	-40...+80	IP67		
WWAK3-.../S90	8007134	8007139	8007144	C001	-30...+90	-40...+80	IP67		
WWAK4-.../P00	8007148	8007155	8007162	C002	-30...+90	-40...+80	IP67		
WWAK4-.../XOR	8007150	8007157	8007164	C002	-30...+90	-40...+80	IP67		
WWAK4-.../S90	8007149	8007156	8007163	C002	-30...+90	-40...+80	IP67		
WWAK5-.../P00	8007169	8007174	8007179	C003	-30...+90	-40...+80	IP67		
WWAK5-.../XOR	8007171	8007176	8007181	C003	-30...+90	-40...+80	IP67		
WWAK5-.../S90	8007170	8007175	8007180	C003	-30...+90	-40...+80	IP67		

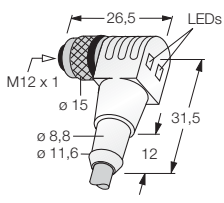
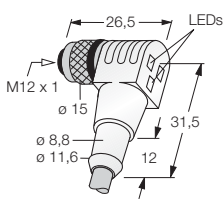
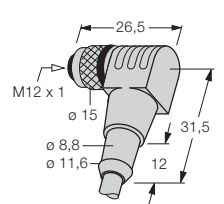
Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstyp / preferred solution / Type préféré

Rundsteckverbinder M12 – Kupplung

Round connector M12 – Female connector

Connecteurs femelles M12

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Kabelfarbe Cable colour Couleur de câble	Werkstoffe Materials Matériaux Kabelmantel/ Cable jacket/ Gaine de protection	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated voltage Tension nominale [V]		
	M12 x 1	3	GY	PVC	4	10...30	
		3	YE	PVC-I	4	10...30	
		3	GY	PUR/PVC	4	10...30	
		3	GY	PUR/PP	4	10...30	
		4	GY	PVC	4	10...30	
		4	YE	PVC-I	4	10...30	
		4	GY	PUR/PVC	4	10...30	
		4	GY	PUR/PP	4	10...30	
	M12 x 1	4	GY	PVC	4	10...30	
		4	GY	PVC	4	10...30	
		4	YE	PVC-I	4	10...30	
		4	YE	PVC-I	4	10...30	
		4	GY	PUR/PVC	4	10...30	
		4	GY	PUR/PP	4	10...30	
		4	GY	PUR/PVC	4	10...30	
		5	GY	PVC	4	10...30	
		5	YE	PVC-I	4	10...30	
		5	GY	PUR/PVC	4	10...30	
	5	GY	PUR/PP	4	10...30		
	NAMUR	M12 x 1	2	BU	PVC	4	250
			2	BU	PUR/PVC	4	250

1) halogenfrei/halgen free/exempt d'halogène

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Ident-Nr. Ident no. No. d'ident.	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		Schutzart Degree of protection Degré de protection	LED	
					Stecker Connector Connecteur	Leitung Cable Câble		LED	
								U _B	└┘
	2 m	5 m	10 m						
WWAK3P2-.../P00	8010213	8009238	8009242	C001	-30...+90	-40...+80	IP67	•	•
WWAK3P2-.../XOR	8010215	8009240	8009244	C001	-30...+90	-40...+80	IP67	•	•
WWAK3P2-.../S90	8010214	8009239	8009243	C001	-30...+90	-40...+80	IP67	•	•
WWAK3P2-.../S366¹⁾	8020012	8020013	8020014	C001	-30...+90	-40...+90	IP67	•	•
WWAK4P2-.../P00	8009889	8009247	8009250	C002	-30...+90	-40...+80	IP67	•	•
WWAK4P2-.../XOR	8009890	8009249	8009252	C002	-30...+90	-40...+80	IP67	•	•
WWAK4P2-.../S90	8009246	8009248	8009251	C002	-30...+90	-40...+80	IP67	•	•
WWAK4P2-.../S366¹⁾	8020015	8020016	8020017	C002	-30...+90	-40...+90	IP67	•	•
WWAK4P3-.../P00	8009909	8009916	8009922	C002	-30...+90	-40...+80	IP67	•	•
WWAK4P3.1-.../P00	8009930	8009938	8009945	C002	-30...+90	-40...+80	IP67	•	•
WWAK4P3-.../XOR	8009911	8009253	8009924	C002	-30...+90	-40...+80	IP67	•	•
WWAK4P3.1-.../XOR	8009932	8010240	8009947	C002	-30...+90	-40...+80	IP67	•	•
WWAK4P3-.../S90	8009910	8009917	8009923	C002	-30...+90	-40...+80	IP67	•	•
WWAK4P3-.../S366¹⁾	8020019	8020020	8020021	C002	-30...+90	-40...+90	IP67	•	•
WWAK4P3.1-.../S90	8010239	8010077	8009946	C002	-30...+90	-40...+80	IP67	•	•
WWAK5P3.1-.../P00	8009953	8009958	8009963	C003	-30...+90	-40...+80	IP67	•	•
WWAK5P3.1-.../XOR	8009955	8009960	8009254	C003	-30...+90	-40...+80	IP67	•	•
WWAK5P3.1-.../S90	8009954	8009959	8009964	C003	-30...+90	-40...+80	IP67	•	•
WWAK5P3.1-.../S366¹⁾	8020027	8020028	8020029	C003	-30...+90	-40...+90	IP67	•	•
WWAK4.21-.../P00	8013811	8013820	8013814	C008	-30...+90	-40...+80	IP67		
WWAK4.21-.../S90	8018297	8016328	8017427	C008	-30...+90	-40...+80	IP67		

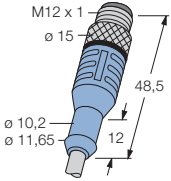
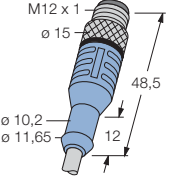
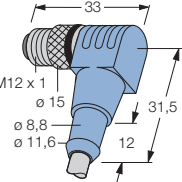
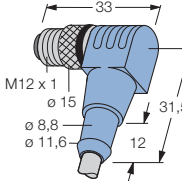
Sensortechnik/Sensors/
Détecteurs

✘ = Vorzugstyp / preferred solution / Type préféré

Rundsteckverbinder M12 – Stecker

Round connector M12 – Male connector

Connecteurs mâles M12

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Kabelfarbe Cable colour Couleur de câble	Werkstoffe Materials Matériaux Kabelmantel/ Cable jacket/ Gaine de protection	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated voltage Tension nominale [V]				
	M12 x 1								
		3	GY	PVC	4	250			
		3	YE	PVC-I	4	250			
		3	GY	PUR/PVC	4	250			
		3	GY	PUR/PUR	4	250			
		4	GY	PVC	4	250			
		4	YE	PVC-I	4	250			
		4	GY	PUR/PVC	4	250			
		4	GY	PUR/PUR	4	250			
		5	GY	PVC	4	60			
		5	YE	PVC-I	4	60			
		5	GY	PUR/PVC	4	60			
5	GY	PUR/PUR	4	60					
	NAMUR	M12 x 1							
			2	BU	PVC	4	250		
	M12 x 1								
		3	GY	PVC	4	250			
		3	YE	PVC-I	4	250			
		3	GY	PUR/PVC	4	250			
		3	GY	PUR/PUR	4	250			
		4	GY	PVC	4	250			
		4	YE	PVC-I	4	250			
		4	GY	PUR/PVC	4	250			
		4	GY	PUR/PUR	4	250			
		5	GY	PVC	4	60			
		5	YE	PVC-I	4	60			
		5	GY	PUR/PVC	4	60			
5	GY	PUR/PUR	4	60					
	NAMUR	M12 x 1							
			2	BU	PVC	4	250		

¹⁾ halogenfrei/halgen free/exempt d'halogène

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Ident-Nr. Ident no. No. d'ident.	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		Schutzart Degree of protection Degré de protection	LED	
					Stecker Connector Connecteur	Leitung Cable Câble		U _B	└┘
WAS3-.../P00	8007082	8007087	8007092	C004	-30...+90	-40...+80	IP67		
WAS3-.../XOR	8007084	8007089	8007094	C004	-30...+90	-40...+80	IP67		
WAS3-.../S90	8007083	8007088	8007093	C004	-30...+90	-40...+80	IP67		
WAS3-.../S366¹⁾	8019980	8019981	8019982	C004	-30...+90	-40...+80	IP67		
WAS4-.../P00	8007097	8007104	8007111	C005	-30...+90	-40...+90	IP67		
WAS4-.../XOR	8007099	8007106	8007113	C005	-30...+90	-40...+80	IP67		
WAS4-.../S90	8007098	8007105	8007112	C005	-30...+90	-40...+80	IP67		
WAS4-.../S366¹⁾	8019986	8019987	8019988	C005	-30...+90	-40...+90	IP67		
WAS5-.../P00	8007118	8007123	8007128	C006	-30...+90	-40...+80	IP67		
WAS5-.../XOR	8007120	8007125	8007130	C006	-30...+90	-40...+80	IP67		
WAS5-.../S90	8007119	8007124	8007129	C006	-30...+90	-40...+80	IP67		
WAS5-.../S366¹⁾	8019990	8019991	8019992	C006	-30...+90	-40...+90	IP67		
WAS4.21-.../P00	8014497	8020801	8032994	C008	-30...+90	-40...+80	IP67		
WWAS3-.../P00	8007184	8007189	8007194	C004	-30...+90	-40...+80	IP67		
WWAS3-.../XOR	8007186	8007191	8007196	C004	-30...+90	-40...+80	IP67		
WWAS3-.../S90	8007185	8007190	8007195	C004	-30...+90	-40...+80	IP67		
WWAS3-.../S366¹⁾	8020033	8020034	8020035	C004	-30...+90	-40...+90	IP67		
WWAS4-.../P00	8007199	8007206	8007213	C005	-30...+90	-40...+80	IP67		
WWAS4-.../XOR	8007201	8007208	8007215	C005	-30...+90	-40...+80	IP67		
WWAS4-.../S90	8007200	8007207	8007214	C005	-30...+90	-40...+80	IP67		
WWAS4-.../S366¹⁾	8020039	8020040	8020041	C005	-30...+90	-40...+90	IP67		
WWAS5-.../P00	8007220	8007225	8007230	C006	-30...+90	-40...+80	IP67		
WWAS5-.../XOR	8007222	8007227	8007232	C006	-30...+90	-40...+80	IP67		
WWAS5-.../S90	8007221	8007226	8007231	C006	-30...+90	-40...+80	IP67		
WWAS5-.../S366¹⁾	8020047	8020048	8020049	C006	-30...+90	-40...+90	IP67		
WWAS4.21-.../P00	8014499	8031913	8020140	C008	-30...+90	-40...+80	IP67		

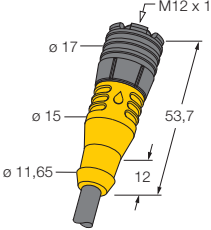

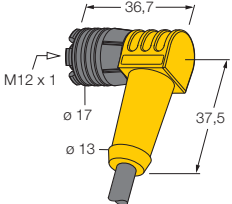

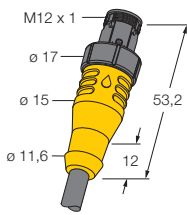

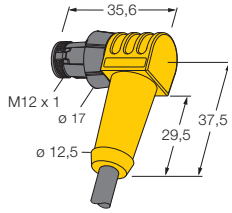

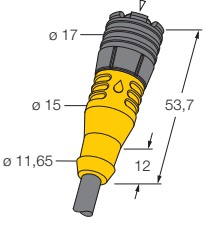
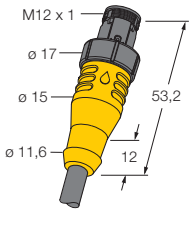

Sensortechnik/Sensors/
Détecteurs

x = Vorzugstyp / preferred solution / Type préféré

Schnellsteckverbinder M12 – Kupplung/Stecker

Quick-connect M12 – Female connector/male connector

Connecteur à connexion rapide M12 – femelle/mâle

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Kabelfarbe Cable colour Couleur de câble	Werkstoffe Materials Matériaux Kabelmantel/ Cable jacket/ Gaine de protection	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated voltage Tension nominale [V]		
	M12 x 1 	3	GY	PUR/PVC	4	250	
		4	GY	PUR/PVC	4	250	
		5	GY	PUR/PVC	4	60	
		3	GY	PUR/PP	4	250	
		4	GY	PUR/PP	4	250	
		5	GY	PUR/PP	4	60	
	M12 x 1 	3	GY	PUR/PVC	4	250	
		4	GY	PUR/PVC	4	250	
		5	GY	PUR/PVC	4	60	
		3	GY	PUR/PP	4	250	
		4	GY	PUR/PP	4	250	
		5	GY	PUR/PP	4	60	
	M12 x 1 	3	GY	PUR/PVC	4	250	
		4	GY	PUR/PVC	4	250	
		5	GY	PUR/PVC	4	60	
		3	GY	PUR/PP	4	250	
		4	GY	PUR/PP	4	250	
		5	GY	PUR/PP	4	60	
	M12 x 1 	3	GY	PUR/PVC	4	250	
		4	GY	PUR/PVC	4	250	
		5	GY	PUR/PVC	4	60	
		3	GY	PUR/PP	4	250	
		4	GY	PUR/PP	4	250	
		5	GY	PUR/PP	4	60	
 	M12 x 1 	4	GY	PVC	4	250	

andere Längen und Leitungstypen auf Anfrage/other lengths and cable types on request/autres longueurs et types de câbles sur demande

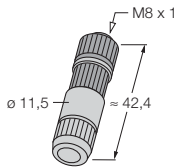
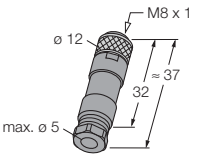
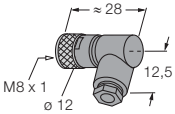
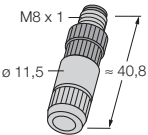
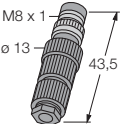
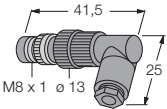
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Ident-Nr. Ident no. No. d'ident.	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		Schutzart Degree of protection Degré de protection	LED	
					Stecker Connector Connecteur	Leitung Cable Câble		U _B	
RKC4Q-5/S90	-	8038512	-	C001	-30...+90	-30...+80	IP67/IP69K		
RKC4.4Q-5/S90	-	8038513	-	C002	-30...+90	-30...+80	IP67/IP69K		
RKC4.5Q-5/S90/S1538	-	8038514	-	C003	-30...+90	-30...+80	IP67/IP69K		
RKC4Q-5/S366 ¹⁾	-	8038632	-	C001	-30...+90	-40...+90	IP67/IP69K		
RKC4.4Q-5/S366 ¹⁾	-	8038633	-	C002	-30...+90	-40...+90	IP67/IP69K		
RKC4.5Q-5/S366/S1538 ¹⁾	-	8038634	-	C003	-30...+90	-40...+90	IP67/IP69K		
WKC4Q-5/S90	-	8038515	-	C001	-30...+90	-30...+80	IP67/IP69K		
WKC4.4Q-5/S90	-	8038516	-	C002	-30...+90	-30...+80	IP67/IP69K		
WKC4.5Q-5/S90/S1538	-	8038517	-	C003	-30...+90	-30...+80	IP67/IP69K		
WKC4Q-5/S366 ¹⁾	-	8038635	-	C001	-30...+90	-40...+90	IP67/IP69K		
WKC4.4Q-5/S366 ¹⁾	-	8038636	-	C002	-30...+90	-40...+90	IP67/IP69K		
WKC4.5Q-5/S366/S1538 ¹⁾	-	8038637	-	C003	-30...+90	-40...+90	IP67/IP69K		
RSC4Q-5/S90	-	8039385	-	C004	-30...+90	-30...+80	IP67/IP69K		
RSC4.4Q-5/S90	-	8039395	-	C005	-30...+90	-30...+80	IP67/IP69K		
RSC4.5Q-5/S90/S1538	-	8039396	-	C006	-30...+90	-30...+80	IP67/IP69K		
RSC4Q-5/S366 ¹⁾	-	8039389	-	C004	-30...+90	-40...+90	IP67/IP69K		
RSC4.4Q-5/S366 ¹⁾	-	8039390	-	C005	-30...+90	-40...+90	IP67/IP69K		
RSC4.5Q-5/S366/S1538 ¹⁾	-	8039391	-	C006	-30...+90	-40...+90	IP67/IP69K		
WSC4Q-5/S90	-	8039386	-	C004	-30...+90	-30...+80	IP67/IP69K		
WSC4.4Q-5/S90	-	8039387	-	C005	-30...+90	-30...+80	IP67/IP69K		
WSC4.5Q-5/S90/S1538	-	8039388	-	C006	-30...+90	-30...+80	IP67/IP69K		
WSC4Q-5/S366 ¹⁾	-	8039392	-	C004	-30...+90	-40...+90	IP67/IP69K		
WSC4.4Q-5/S366 ¹⁾	-	8039393	-	C005	-30...+90	-40...+90	IP67/IP69K		
WSC4.5Q-5/S366/S1538 ¹⁾	-	8039394	-	C006	-30...+90	-40...+90	IP67/IP69K		
RKC4.4Q-2-RSC4.4Q/P00	8040304	-	-	C002/C005	-30...+90	-30...+80	IP67/IP69K		

Sensortechnik/Sensors/
Détecteurs

¹⁾ halogenfrei/halgen free/exempt d'halogène

x = Vorzugstyp / preferred solution / Type préféré

Rundsteckverbinder M8 – Selbstkonfektionierbar
Round connector M8 – Field wireable
Connecteurs confectionnables M8

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Anschlussart Connection mode Mode de connexion	Material /Materials/Matériaux (IEC 852)		
			Überwurfmutter Coupling nut Écrou de serrage	Griffteil Grip Manchon	
	M8 x 1	3	Schneidklemmen Insulation piercing connection Raccords autodénudants	CuZn	PA
	☒	4		CuZn	PA
	M8 x 1	3	Löten Solder Souder	CuZn	PBT
	☒	4		CuZn	PBT
	M8 x 1	3	Löten Solder Souder	CuZn	PBT
	☒	4		CuZn	PBT
	M8 x 1	3	Schneidklemmen Insulation piercing connection Raccords autodénudants	CuZn	PA
	—	4		CuZn	PA
	M8 x 1	3	Löten Solder Souder	CuZn	PBT
	—	4		CuZn	PBT
	M8 x 1	3	Löten Solder Souder	CuZn	PBT
	—	4		CuZn	PBT

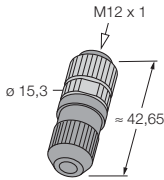
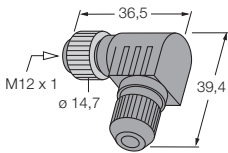
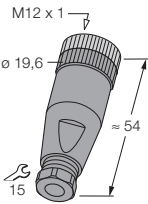
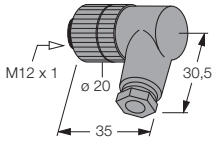
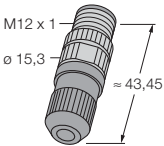
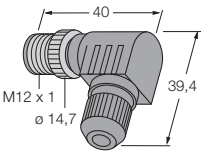
	Typenbezeichnung	Ident-Nr.	Nennstrom	Bemessungs- spannung	Anschluss	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		Schutzart	LED	
	Type	Ident no.	Rated current	Rated Voltage	Connection	Stecker Connector Connecteur	Leitung Cable Câble	Degree of protection		
	Type	No. d'ident.	Courant nominal [A]	Tension nominale [V]	Connexion (IEC 806)			Degré de protection	U _B	└┘
	HA5131-0	6905404	4	32	C022	-25...+85		IP67		
	HA5141-0	6905405	4	32	C023	-25...+85		IP67		
	B 5131-0	6904910	4	60	C022	-40...+85		IP67		
	B 5141-0	6904915	4	60	C023	-40...+85		IP67		
	B 5231-0	6904810	4	60	C022	-40...+85		IP67		
	B 5241-0	6904815	4	60	C023	-40...+85		IP67		
	HAS5131-0	6905402	4	32	C025	-25...+85		IP67		
	HAS5141-0	6905403	4	32	C025	-25...+85		IP67		
	BS5131-0	6901010	4	60	C024	-40...+85		IP67		
	BS 5141-0	6901011	4	60	C025	-40...+85		IP67		
	BS5231-0	6901110	4	60	C024	-40...+85		IP67		
	BS5241-0	6901111	4	60	C025	-40...+85		IP67		



Sensortechnik/Sensors/
Détecteurs

Rundsteckverbinder M12 – Selbstkonfektionierbar

Round connector M12 – Field wireable

Connecteurs confectionnables M12

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Anschlussart Connection mode Mode de connexion	Material /Materials/Matériaux (IEC 852)	
			Überwurfmutter Coupling nut Écrou de serrage	Griffteil Grip Manchon
 <p>M12 x 1 ø 15,3 ≈ 42,65</p>	M12 x 1 C	4 Schneidklemmen Insulation piercing connection Raccords autodénudants	CuZn	PA
 <p>M12 x 1 ø 14,7 36,5 39,4</p>	M12 x 1 C	4 Schneidklemmen Insulation piercing connection Raccords autodénudants	CuZn	PA
 <p>M12 x 1 ø 19,6 ≈ 54 15</p>	M12 x 1 C	4 Schraubklemmen Screw terminals Bornes à vis 5	PA PA	PA PA
 <p>M12 x 1 ø 20 30,5 35</p>	M12 x 1 C	4 Schneidklemmen Insulation piercing connection Raccords autodénudants 5	PA PA	PA PA
 <p>M12 x 1 ø 15,3 ≈ 43,45</p>	M12 x 1 —	4 Schneidklemmen Insulation piercing connection Raccords autodénudants	CuZn	PA
 <p>M12 x 1 ø 14,7 40 39,4</p>	M12 x 1 —	4 Schneidklemmen Insulation piercing connection Raccords autodénudants	CuZn	PA

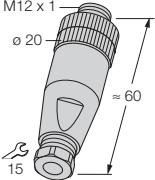
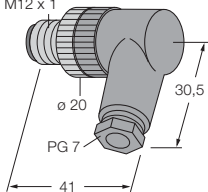
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated Voltage Tension nominale [V]	Anschluss Connection Connexion  806)	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		Schutzart Degree of protection Degré de protection	LED	
					Stecker Connector Connecteur	Leitung Cable Câble		U _B	
HA8141-0	6905407	4	32	C011	-25...+85		IP67		
HA8241-0	6905401	4	32	C011	-25...+85		IP67		
B 8141-0	69049	4	250	C011	-40...+85		IP67		
B 8151-0	6904601	4	125	C020	-40...+85		IP67		
B 8241-0	69048	4	250	C011	-40...+85		IP67		
B 8251-0	6904602	4	125	C020	-40...+85		IP67		
HAS8141-0	6905406	4	32	C012	-25...+85		IP67		
HAS8241-0	6905400	4	32	C012	-25...+85		IP67		

Sensortechnik/Sensors/
Détecteurs

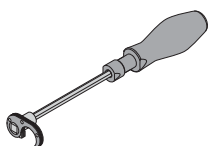
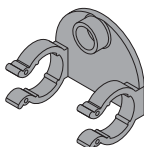
Rundsteckverbinder M12 – Selbstkonfektionierbar



Round connector M12 – Field wireable

Connecteurs confectionnables M12

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Leiteranzahl Number of conductors Nombre de conducteurs	Anschlussart Connection mode Mode de connexion		Material /Materials/Matériaux (IEC 852)	
		Überwurfmutter Coupling nut Écrou de serrage	Griffteil Grip Manchon		
	M12 x 1 —	4	Schraubklemmen	CuZn	PA
		5	Screw terminals Bornes à vis	CuZn	PA
	M12 x 1 —	4	Schraubklemmen	CuZn	PA
		5	Screw terminals Bornes à vis	CuZn	PA

Zubehör/Accessories/Accessoires

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Beschreibung Description Description	
		Drehmomentschlüssel dynamometric key clé dynamométrique
	Befestigungsclip für M12-Stecker/ Kupplung Mounting clip for M12 male/female connector Clip de fixation pour connecteur M12 mâle/femelle	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Nennstrom Rated current Courant nominal [A]	Bemessungs- spannung Rated Voltage Tension nominale [V]	Anschluss Connection Connexion  806)	Umgebungstemperatur/ Temperature range/ Température ambiante [°C]		Schutzart Degree of protection Degré de protection	LED	
					Stecker Connector Connecteur	Leitung Cable Câble		U _B	
BS8141-0	69010		250	C012	-40...+85		IP67		
BS8151-0	6904611		125	C021	-40...+85		IP67		
BS8241-0	69011		250	C012	-40...+85		IP67		
BS8251-0/9	6904612		125	C021	-40...+85		IP67		

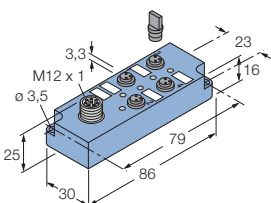
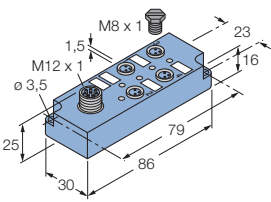
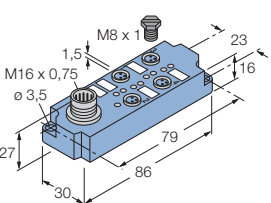
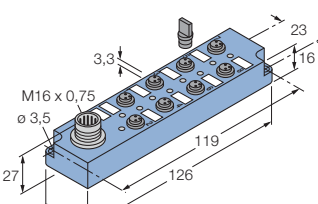
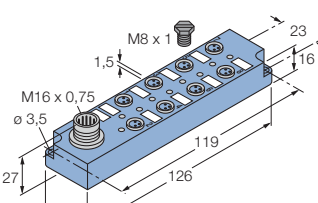
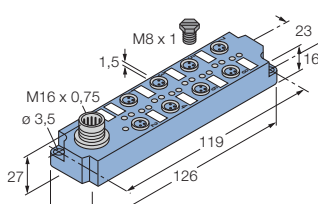
Sensortechnik/Sensors/
Détecteurs

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	
Drehmomentschlüsselset M8/M12	8031651	
M12x1 Befestigungsclip	8040758	

Verteilersysteme M8

Junction systems M8

Systèmes de distribution M8

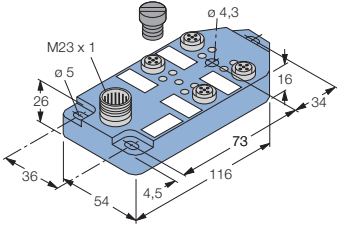
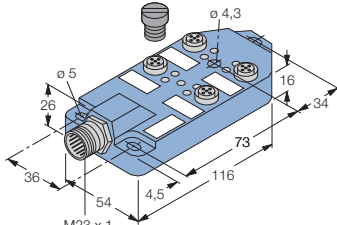
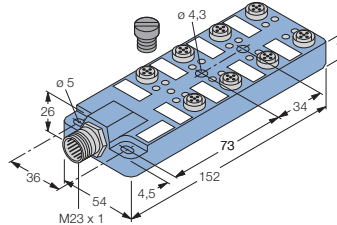
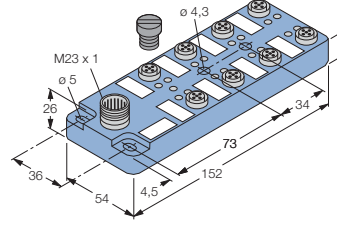
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Ausführung Version Version	Anschluss – Sensoren/Aktuatoren Connection – Sensors/Actuators Connexion – DéTECTEURS/Actionneurs	Leiteranzahl pro E/A – Steckplatz Number of conductors per I/O slot Nombre de fils par emplacement E/S	Werkstoffe Kabelmantel Materials cable jacket Matériaux gaine de protection (IEC 852)	Einbaustecker Male plug Connecteur (IEC 806)	Werkstoffe Gehäuse Materials Housing Matériaux boîtier (IEC 852)
	4fach 4-port 4 canaux	Ø 8mm, pnp	3 +		Ø 8 mm	PA
		Ø 8mm, npn	3 + 3 +		C009 Ø 8 mm C009	PA
	4fach 4-port 4 canaux	M8 x 1 / pnp	3 +		M8 x 1	PA
		M8 x 1 / npn	3 + 3 +		M8 x 1 C009	PA
	4fach 4-port 4 canaux	M8 x 1 / pnp	4 +		M8 x 1	PA
		M8 x 1 / npn	4 + 4 +		M8 x 1 C010	PA
	8fach 8-port 8 canaux	Ø 8mm, pnp	3 +		Ø 8 mm	PA
		Ø 8mm, npn	3 + 3 +		Ø 8 mm C009	PA
	8fach 8-port 8 canaux ☺	M8 x 1 / pnp	3 +		M8 x 1	PA
		M8 x 1 / npn	3 + 3 +		M8 x 1 C009	PA
	8fach 8-port 8 canaux ☺	M8 x 1 / pnp	4 +		M8 x 1	PA
		M8 x 1 / npn	4 + 4 +		M8 x 1 C010	PA

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Summenstrom Total current Courant total [A]	Bemessungs- spannung Rated Voltage Tension nominale [V]	Schaltbild Block diagram Schéma de raccordement (IEC 806)	Umgebungstemp./Temperature range/Température ambiante		Schutzart Degree of protection Degré de protection	LED- Anzeigen LED indications Visualisations par LED	
					Verteiler/ Multiboxes/ Boîtiers de distribution [°C]	Kabel/ Cable/ Câble [°C]		U _B	
4MBS8-3P2	8017725	6	10...30	C039	-30...+90		IP67	1 x GR	4 x YE
4MBS8-3N2	8021639	6	10...30	C042	-30...+90		IP67	1 x GR	4 x YE
4MBM8-3P2	8017726	6	10...30	C039	-30...+90		IP67	1 x GR	4 x YE
4MBM8-3N2	8021638	6	10...30	C042	-30...+90		IP67	1 x GR	4 x YE
4MBM8-4P3	8025641	6	10...30	C044	-30...+90		IP67	1 x GR	8 x YE
4MBM8-4N3	8025642	6	10...30	C046	-30...+90		IP67	1 x GR	8 x YE
8MBS8-3P2	8017724	6	10...30	C040	-30...+90		IP67	1 x GR	8 x YE
8MBS8-3N2	8021610	6	10...30	C041	-30...+90		IP67	1 x GR	8 x YE
8MBM8-3P2	8017721	6	10...30	C040	-30...+90		IP67	1 x GR	8 x YE
8MBM8-3N2	8021608	6	10...30	C041	-30...+90		IP67	1 x GR	8 x YE
8MBM8-4P3	8025630	6	10...30	C043	-30...+90		IP67	1 x GR	16 x YE
8MBM8-4N3	8025645	6	10...30	C045	-30...+90		IP67	1 x GR	16 x YE

Verteilungssysteme M12

Junction systems M12

Systèmes de distribution M12

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Ausführung Version Version	Anschluss – Sensoren/Aktuatoren Connection – Sensors/Actuators Connexion – DéTECTEURS/Actionneurs	Leiteranzahl pro E/A – Steckplatz Number of conductors per I/O slot Nombre de fils par emplacement E/S	Werkstoffe Kabelmantel Materials cable jacket Matériaux gaine de protection (IEC 852)	Einbaustecker Male plug Connecteur (IEC 806)	Werkstoffe Gehäuse Materials Housing Matériaux boîtier (IEC 852)	
	4fach 4-port 4 canaux	M12 x 1 / pnp	3 + PE		M12 x 1	PA	
			3 + PE		C014		
	4fach 4-port 4 canaux	M12 x 1 / pnp	3 + PE		M12 x 1	PA	
			3 + PE		C014		
	8fach 8-port 8 canaux	M12 x 1 / pnp	3 + PE		M12 x 1	PA	
			3 + PE		C014		
	8fach 8-port 8 canaux	M12 x 1 / pnp	3 + PE		M12 x 1	PA	
			3 + PE		C014		
			4 + PE		M12 x 1	PA	
			4 + PE		C014		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Summenstrom Total current Courant total [A]	Bemessungs- spannung Rated Voltage Tension nominale [V]	Schaltbild Block diagram Schéma de raccordement (IEC 806)	Umgebungstemp./Temperature range/Température ambiante		Schutzart Degree of protection Degré de protection	LED- Anzeigen LED indications Visualisations par LED	
					Verteiler/ Multiboxes/ Boîtiers de distribution [°C]	Kabel/ Cable/ Câble [°C]		U _B	
MB-4M12-5.4P2	8024415	9	10...30	C038	-30...+90		IP67	1 x GR	4 x YE
MB-4M12-5P3	8024414	9	10...30	C004	-30...+90		IP67	1 x GR	8 x YE
MB-4M12-5.4P2/S2000	8025612	9	10...30	C038	-30...+90		IP67	1 x GR	4 x YE
MB-4M12-5P3/S2000	8025617	9	10...30	C004	-30...+90		IP67	1 x GR	8 x YE
MB-8M12-5.4P2/S2000	8025619	9	10...30	C036	-30...+90		IP67	1 x GR	8 x YE
MB-8M12-5P3/S2000	8025620	9	10...30	C037	-30...+90		IP67	1 x GR	16 x YE
MB-8M12-5.4P2	8024413	9	10...30	C036	-30...+90		IP67	1 x GR	8 x YE
MB-8M12-5P3	8024412	9	10...30	C037	-30...+90		IP67	1 x GR	16 x YE

Linearweg-Sensoren

TURCK-Linearweg-Sensoren basieren auf dem magnetostriktiven Prinzip und stehen in Abmessungen von 100 bis 4500 mm (zzgl. 114,3 mm Blindzone) zur Verfügung. Sie sind in einem Aluminiumprofil mit einem Querschnitt von nur 20 x 35 mm (H x B) untergebracht.

Durch ihr berührungsloses Funktionsprinzip arbeiten die Sensoren – bei sachgemäßem Gebrauch – verschleiß- und wartungsfrei. Zudem sind die Geräte besonders robust in Schutzart IP67 ausgeführt und lassen sich ohne weitere Schutzmaßnahmen montieren.

Die speziellen Eigenschaften dieser Geräte bieten somit Vorteile in jeder Anwendung und eröffnen vielfältige, nahezu unbegrenzte Einsatzmöglichkeiten:
Werkzeugmaschinen, Pressen, Form- und Walzanlagen, Gießereianlagen, Spritzgießmaschinen, Richtmaschinen, Transportsysteme, Hubsteuerungen, Tunnelvortriebsmaschinen, Druckgießmaschinen, Portalroboter, Holzbearbeitungsmaschinen, Flugsimulatoren, Schneideanlagen, Fördertechnik, Verpackungsmaschinen, Windkraftanlagen, Aufzüge u. v. a. m.

TURCK-Linearweg-Sensoren sind in einer Standardvariante sowie in einer preiswerten LC-Variante (LC – Low Cost) erhältlich. Bei beiden Varianten ist der benötigte Messweg programmierbar – bei der Standardvariante über einen Programmiereingang, bei der LC-Variante mit einem Programmiermagneten. Die Standardvarianten lassen sich zusätzlich an die Feldstärke eines Fremdmagneten anpassen und besitzen eine 3-Farben-LED (mit Impulsausgang: 2-Farben-LED).

Folgende Varianten sind erhältlich:

- Standard:
 - 4...20 mA
 - 0...+10 V
 - -10...+10 V
 - Impulsausgang
- Low-Cost:
 - 4...20 mA,
 - 0...+10 V

Sowohl bei den Standardvarianten als auch bei den Low-Cost-Varianten ist das Ausgangssignal invertierbar.

Linear position Sensors

TURCK's linear displacement sensors are based on the magnetostrictive function principle and come in lengths of 100 up to 4500 mm (plus a blind zone of 114.3 mm). They are incorporated in an aluminium housing with a base surface of 20 x 35 mm (h x w) only.

Owing to the non-contact operating principle these sensors are wear and maintenance-free, provided they are mounted and operated correctly. These devices are also especially robust featuring protection degree IP67 and can thus be mounted safely in the industrial environment without any additional precautionary measures.

With its many special characteristics this line offers a multitude of performance benefits, making it suited to solve innumerable applications. These sensors accomplish diverse positioning control tasks in tooling, pressing, cutting, moulding, injection moulding, rolling, casting and die-casting machinery, levelling, transport, hoisting, conveyor and handling technology, tunnel driving machinery, gantry robots, wood machining, flight simulators, wind power machines, lifts etc.



Détecteurs de positionnement linéaire

TURCK's linear position sensors are available in a standard and in a low cost version. Both versions enable measuring range adjustment; the standard version is equipped with a programming input for this purpose, while the LC version works with a programming magnet.

The standard version allows adaptation to the field strength of an external magnet and is equipped with a tri-colour LED (with pulse output: dual colour LED).

The following versions are available:

- standard types:
 - 4...20 mA
 - 0...+10 V
 - -10...+10 V
 - pulse output
- low cost version:
 - 4...20 mA,
 - 0...+10 V

Both the standard types and the low cost versions enable inverting of the output signal.

Les détecteurs de positionnement linéaire TURCK fonctionnent selon le principe magnéto-strictif et sont disponibles dans les dimensions de 100 à 4500 mm (plus une zone morte de 114,3 mm). Ils sont logés dans un profilé d'aluminium d'une section de 20 x 35 mm seulement (H x L).

Ces détecteurs fonctionnant sans contact physique - pourvu qu'ils soient montés et fonctionnent correctement - sont sans usure et sans entretien. En outre, ces appareils en mode de protection IP67 sont extrêmement robustes et permettent un montage sûr dans un environnement industriel sans prise de mesures préventives additionnelles.

Les caractéristiques spéciales de ces appareils offrent des avantages pour toute application présentant des possibilités d'utilisation presque illimitées: machines-outils, presses, laminoires, machines de moulage, presses d'injection, dresseuses, systèmes de transport, commandes de levage, tunneliers, machines à coulée sous pression, robots portiques, machines à bois, simulateurs de vol, installations de coupage, manutention, machines d'emballage, installations d'énergie éolienne, élévateurs etc.

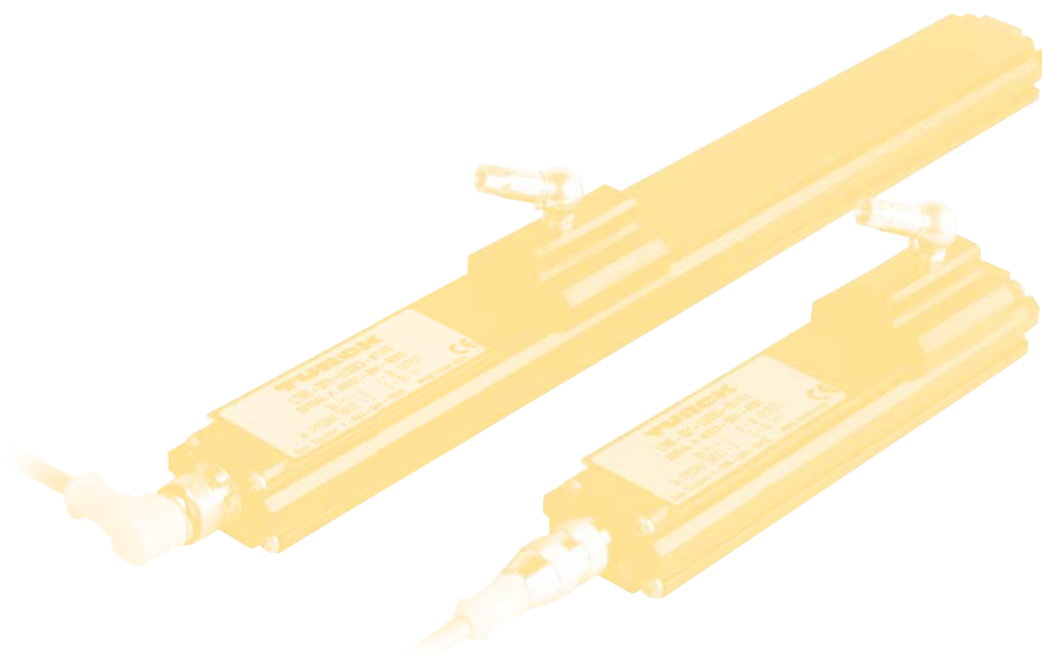
Les détecteurs de positionnement linéaire TURCK sont disponibles en version standard et en version faible coût (LC-Low Cost). Le déplacement de mesure peut être programmé pour les deux versions - à cet effet, la version standard dispose d'une entrée de programmation et la variante LC d'un aimant de programmation.

De plus, les versions standard peuvent être adaptées à l'intensité du champ d'un aimant extérieur et sont équipées d'une LED tricolore (avec sortie d'impulsion: LED bicolore).

Les variantes suivantes sont disponibles:

- versions standard:
 - 4...20 mA
 - 0...+10 V
 - -10...+10 V
 - sortie d'impulsion
- versions low cost:
 - 4...20 mA,
 - 0...+10 V

Le signal de sortie des variantes standard, ainsi que des variantes low-cost est réversible.



Linienwegensensoren – Standard mit Analogausgang

Linear position sensors – Standard with analog output

Détecteurs de positionnement linéaire – Sortie analogique en standard

Abmessungen Dimensions Dimensions [mm]	Messbereich L2 ¹⁾ Measuring range L2 ¹⁾ Plage de mesure L2 ¹⁾	Messwegeinstellung über Programmiereingang Measuring range adjustment Réglage du déplacement de mesure par entrée de programmation	Ausgangs- signal Output signal Signal de sortie [V]	Betriebs- spannung U _B Operational voltage U _B Tension de service U _B [V]	Stromaufnahme bei 10/30 VDC Current consumption at 10/30 VDC Courant absorbé à 10/30 VDC [mA]	
	100	•	4...20 mA	10...30	80 / 35	
	100	•	0...10 V	10...30	80 / 35	
	100	•	-10...10 V	10...30	80 / 35	
	130	•	4...20 mA	10...30	80 / 35	
	130	•	0...10 V	10...30	80 / 35	
	130	•	-10...10 V	10...30	80 / 35	
	150	•	4...20 mA	10...30	80 / 35	
	150	•	0...10 V	10...30	80 / 35	
	150	•	-10...10 V	10...30	80 / 35	
	175	•	4...20 mA	10...30	80 / 35	
	175	•	0...10 V	10...30	80 / 35	
	175	•	-10...10 V	10...30	80 / 35	
	200	•	4...20 mA	10...30	80 / 35	
	200	•	0...10 V	10...30	80 / 35	
	200	•	-10...10 V	10...30	80 / 35	
	225	•	4...20 mA	10...30	80 / 35	
	225	•	0...10 V	10...30	80 / 35	
	225	•	-10...10 V	10...30	80 / 35	
	250	•	4...20 mA	10...30	80 / 35	
	250	•	0...10 V	10...30	80 / 35	
	250	•	-10...10 V	10...30	80 / 35	
	300	•	4...20 mA	10...30	80 / 35	
	300	•	0...10 V	10...30	80 / 35	
	300	•	-10...10 V	10...30	80 / 35	
	350	•	4...20 mA	10...30	80 / 35	
	350	•	0...10 V	10...30	80 / 35	
	350	•	-10...10 V	10...30	80 / 35	
360	•	4...20 mA	10...30	80 / 35		
360	•	0...10 V	10...30	80 / 35		
360	•	-10...10 V	10...30	80 / 35		
400	•	4...20 mA	10...30	80 / 35		
400	•	0...10 V	10...30	80 / 35		
400	•	-10...10 V	10...30	80 / 35		
450	•	4...20 mA	10...30	80 / 35		
450	•	0...10 V	10...30	80 / 35		
450	•	-10...10 V	10...30	80 / 35		
500	•	4...20 mA	10...30	80 / 35		
500	•	0...10 V	10...30	80 / 35		
500	•	-10...10 V	10...30	80 / 35		
550	•	4...20 mA	10...30	80 / 35		
550	•	0...10 V	10...30	80 / 35		
550	•	-10...10 V	10...30	80 / 35		

¹⁾ L1 = (Messbereich L2/measuring range L2/plage de mesure L2) + (114,3 mm Blindzone/blind zone/zone morte)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Linearität ²⁾ Linearity ²⁾ Linéarité ²⁾ [%]	Wiederholgenauigkeit ²⁾ Repeat accuracy ²⁾ Reproductibilité ²⁾ [%]	Betriebs- temperatur Operating temperature Température de fonctionnement [°C]	Schutzart Degree of protection Degré de protection	3-Farben LED (Zustand) Tri-colour LED (status) LED tricolore (état)	Werkstoffe/ Materials/ Matériaux (IEC 852) Gehäuse Housing Boîtier
LT100M-Q21-LI0X3-H1141	1539029	S099	0.05	0,01	-40...+70	IP67	•	AL
LT100M-Q21-LU0X3-H1141	1539067	S100	0.05	0,01	-40...+70	IP67	•	AL
LT100M-Q21-LU2X3-H1141	1539127	S100	0.05	0,01	-40...+70	IP67	•	AL
LT130M-Q21-LI0X3-H1141	1539030	S099	0.05	0,01	-40...+70	IP67	•	AL
LT130M-Q21-LU0X3-H1141	1539068	S100	0.05	0,01	-40...+70	IP67	•	AL
LT130M-Q21-LU2X3-H1141	1539128	S100	0.05	0,01	-40...+70	IP67	•	AL
LT150M-Q21-LI0X3-H1141	1539022	S099	0.05	0,01	-40...+70	IP67	•	AL
LT150M-Q21-LU0X3-H1141	1539010	S100	0.05	0,01	-40...+70	IP67	•	AL
LT150M-Q21-LU2X3-H1141	1539016	S100	0.05	0,01	-40...+70	IP67	•	AL
LT175M-Q21-LI0X3-H1141	1539031	S099	0.05	0,01	-40...+70	IP67	•	AL
LT175M-Q21-LU0X3-H1141	1539069	S100	0.05	0,01	-40...+70	IP67	•	AL
LT175M-Q21-LU2X3-H1141	1539130	S100	0.05	0,01	-40...+70	IP67	•	AL
LT200M-Q21-LI0X3-H1141	1539032	S099	0.05	0,01	-40...+70	IP67	•	AL
LT200M-Q21-LU0X3-H1141	1539070	S100	0.05	0,01	-40...+70	IP67	•	AL
LT200M-Q21-LU2X3-H1141	1539131	S100	0.05	0,01	-40...+70	IP67	•	AL
LT225M-Q21-LI0X3-H1141	1539033	S099	0.05	0,01	-40...+70	IP67	•	AL
LT225M-Q21-LU0X3-H1141	1539071	S100	0.05	0,01	-40...+70	IP67	•	AL
LT225M-Q21-LU2X3-H1141	1539132	S100	0.05	0,01	-40...+70	IP67	•	AL
LT250M-Q21-LI0X3-H1141	1539023	S099	0.05	0,01	-40...+70	IP67	•	AL
LT250M-Q21-LU0X3-H1141	1539011	S100	0.05	0,01	-40...+70	IP67	•	AL
LT250M-Q21-LU2X3-H1141	1539017	S100	0.05	0,01	-40...+70	IP67	•	AL
LT300M-Q21-LI0X3-H1141	1539034	S099	0.05	0,01	-40...+70	IP67	•	AL
LT300M-Q21-LU0X3-H1141	1539072	S100	0.05	0,01	-40...+70	IP67	•	AL
LT300M-Q21-LU2X3-H1141	1539134	S100	0.05	0,01	-40...+70	IP67	•	AL
LT350M-Q21-LI0X3-H1141	1539035	S099	0.05	0,01	-40...+70	IP67	•	AL
LT350M-Q21-LU0X3-H1141	1539073	S100	0.05	0,01	-40...+70	IP67	•	AL
LT350M-Q21-LU2X3-H1141	1539135	S100	0.05	0,01	-40...+70	IP67	•	AL
LT360M-Q21-LI0X3-H1141	1539036	S099	0.05	0,01	-40...+70	IP67	•	AL
LT360M-Q21-LU0X3-H1141	1539074	S100	0.05	0,01	-40...+70	IP67	•	AL
LT360M-Q21-LU2X3-H1141	1539136	S100	0.05	0,01	-40...+70	IP67	•	AL
LT400M-Q21-LI0X3-H1141	1539037	S099	0.05	0,01	-40...+70	IP67	•	AL
LT400M-Q21-LU0X3-H1141	1539075	S100	0.05	0,01	-40...+70	IP67	•	AL
LT400M-Q21-LU2X3-H1141	1539137	S100	0.05	0,01	-40...+70	IP67	•	AL
LT450M-Q21-LI0X3-H1141	1539038	S099	0.05	0,01	-40...+70	IP67	•	AL
LT450M-Q21-LU0X3-H1141	1539076	S100	0.05	0,01	-40...+70	IP67	•	AL
LT450M-Q21-LU2X3-H1141	1539138	S100	0.05	0,01	-40...+70	IP67	•	AL
LT500M-Q21-LI0X3-H1141	1539024	S099	0.05	0,01	-40...+70	IP67	•	AL
LT500M-Q21-LU0X3-H1141	1539012	S100	0.05	0,01	-40...+70	IP67	•	AL
LT500M-Q21-LU2X3-H1141	1539018	S100	0.05	0,01	-40...+70	IP67	•	AL
LT550M-Q21-LI0X3-H1141	1539039	S099	0.05	0,01	-40...+70	IP67	•	AL
LT550M-Q21-LU0X3-H1141	1539077	S100	0.05	0,01	-40...+70	IP67	•	AL
LT550M-Q21-LU2X3-H1141	1539140	S100	0.05	0,01	-40...+70	IP67	•	AL

²⁾ vom Messbereich/of measuring range/de la plage de mesure

Linearwegsensoren – Standard mit Analogausgang

Linear position sensors – Standard with analog output

Détecteurs de positionnement linéaire – Sortie analogique en standard

Abmessungen Dimensions Dimensions [mm]	Messbereich L2 ¹⁾ Measuring range L2 ¹⁾ Plage de mesure L2 ¹⁾	Messwegeinstellung über Programmiereingang Measuring range adjustment Réglage du déplacement de mesure par entrée de programmation	Ausgangs- signal Output signal Signal de sortie [V]	Betriebs- spannung U _B Operational voltage U _B Tension de service U _B [V]	Stromaufnahme bei 10/30 VDC Current consumption at 10/30 VDC Courant absorbé à 10/30 VDC [mA]	
	600	•	4...20 mA	10...30	80 / 35	
	600	•	0...10 V	10...30	80 / 35	
	600	•	-10...10 V	10...30	80 / 35	
	650	•	4...20 mA	10...30	80 / 35	
	650	•	0...10 V	10...30	80 / 35	
	650	•	-10...10 V	10...30	80 / 35	
	700	•	4...20 mA	10...30	80 / 35	
	700	•	0...10 V	10...30	80 / 35	
	700	•	-10...10 V	10...30	80 / 35	
	750	•	4...20 mA	10...30	80 / 35	
	750	•	0...10 V	10...30	80 / 35	
	750	•	-10...10 V	10...30	80 / 35	
	800	•	4...20 mA	10...30	80 / 35	
	800	•	0...10 V	10...30	80 / 35	
	800	•	-10...10 V	10...30	80 / 35	
	850	•	4...20 mA	10...30	80 / 35	
	850	•	0...10 V	10...30	80 / 35	
	850	•	-10...10 V	10...30	80 / 35	
	900	•	4...20 mA	10...30	80 / 35	
	900	•	0...10 V	10...30	80 / 35	
	900	•	-10...10 V	10...30	80 / 35	
	950	•	4...20 mA	10...30	80 / 35	
	950	•	0...10 V	10...30	80 / 35	
	950	•	-10...10 V	10...30	80 / 35	
	1000	•	4...20 mA	10...30	80 / 35	
	1000	•	0...10 V	10...30	80 / 35	
	1000	•	-10...10 V	10...30	80 / 35	
	1100	•	4...20 mA	10...30	80 / 35	
1100	•	0...10 V	10...30	80 / 35		
1100	•	-10...10 V	10...30	80 / 35		
1200	•	4...20 mA	10...30	80 / 35		
1200	•	0...10 V	10...30	80 / 35		
1200	•	-10...10 V	10...30	80 / 35		
1250	•	4...20 mA	10...30	80 / 35		
1250	•	0...10 V	10...30	80 / 35		
1250	•	-10...10 V	10...30	80 / 35		
1300	•	4...20 mA	10...30	80 / 35		
1300	•	0...10 V	10...30	80 / 35		
1300	•	-10...10 V	10...30	80 / 35		
1400	•	4...20 mA	10...30	80 / 35		
1400	•	0...10 V	10...30	80 / 35		
1400	•	-10...10 V	10...30	80 / 35		

¹⁾ L1 = (Messbereich L2/measuring range L2/plage de mesure L2) + (114,3 mm Blindzone/blind zone/zone morte)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Linearität ²⁾ Linearity ²⁾ Linéarité ²⁾ [%]	Wiederhol- genauigkeit ²⁾ Repeat accuracy ²⁾ Repro- ductibilité ²⁾ [%]	Betriebs- temperatur Operating temperature Température de fonctionnement [°C]	Schutzart Degree of protection Degré de protection	3-Farben LED (Zustand) Tri-colour LED (status) LED tricolore (état)	Werkstoffe/ Materials/ Matériaux (IEC 852) Gehäuse Housing Boîtier
LT600M-Q21-LI0X3-H1141	1539040	S099	0.05	0,01	-40...+70	IP67	•	AL
LT600M-Q21-LU0X3-H1141	1539078	S100	0.05	0,01	-40...+70	IP67	•	AL
LT600M-Q21-LU2X3-H1141	1539141	S100	0.05	0,01	-40...+70	IP67	•	AL
LT650M-Q21-LI0X3-H1141	1539041	S099	0.05	0,01	-40...+70	IP67	•	AL
LT650M-Q21-LU0X3-H1141	1539079	S100	0.05	0,01	-40...+70	IP67	•	AL
LT650M-Q21-LU2X3-H1141	1539142	S100	0.05	0,01	-40...+70	IP67	•	AL
LT700M-Q21-LI0X3-H1141	1539042	S099	0.05	0,01	-40...+70	IP67	•	AL
LT700M-Q21-LU0X3-H1141	1539100	S100	0.05	0,01	-40...+70	IP67	•	AL
LT700M-Q21-LU2X3-H1141	1539143	S100	0.05	0,01	-40...+70	IP67	•	AL
LT750M-Q21-LI0X3-H1141	1539025	S099	0.05	0,01	-40...+70	IP67	•	AL
LT750M-Q21-LU0X3-H1141	1539101	S100	0.05	0,01	-40...+70	IP67	•	AL
LT750M-Q21-LU2X3-H1141	1539019	S100	0.05	0,01	-40...+70	IP67	•	AL
LT800M-Q21-LI0X3-H1141	1539043	S099	0.05	0,01	-40...+70	IP67	•	AL
LT800M-Q21-LU0X3-H1141	1539102	S100	0.05	0,01	-40...+70	IP67	•	AL
LT800M-Q21-LU2X3-H1141	1539145	S100	0.05	0,01	-40...+70	IP67	•	AL
LT850M-Q21-LI0X3-H1141	1539044	S099	0.05	0,01	-40...+70	IP67	•	AL
LT850M-Q21-LU0X3-H1141	1539103	S100	0.05	0,01	-40...+70	IP67	•	AL
LT850M-Q21-LU2X3-H1141	1539146	S100	0.05	0,01	-40...+70	IP67	•	AL
LT900M-Q21-LI0X3-H1141	1539045	S099	0.05	0,01	-40...+70	IP67	•	AL
LT900M-Q21-LU0X3-H1141	1539104	S100	0.05	0,01	-40...+70	IP67	•	AL
LT900M-Q21-LU2X3-H1141	1539147	S100	0.05	0,01	-40...+70	IP67	•	AL
LT950M-Q21-LI0X3-H1141	1539046	S099	0.05	0,01	-40...+70	IP67	•	AL
LT950M-Q21-LU0X3-H1141	1539105	S100	0.05	0,01	-40...+70	IP67	•	AL
LT950M-Q21-LU2X3-H1141	1539148	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1000M-Q21-LI0X3-H1141	1539026	S099	0.05	0,01	-40...+70	IP67	•	AL
LT1000M-Q21-LU0X3-H1141	1539014	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1000M-Q21-LU2X3-H1141	1539020	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1100M-Q21-LI0X3-H1141	1539047	S099	0.05	0,01	-40...+70	IP67	•	AL
LT1100M-Q21-LU0X3-H1141	1539106	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1100M-Q21-LU2X3-H1141	1539149	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1200M-Q21-LI0X3-H1141	1539048	S099	0.05	0,01	-40...+70	IP67	•	AL
LT1200M-Q21-LU0X3-H1141	1539107	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1200M-Q21-LU2X3-H1141	1539151	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1250M-Q21-LI0X3-H1141	1539265	S099	0.05	0,01	-40...+70	IP67	•	AL
LT1250M-Q21-LU0X3-H1141	1539269	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1250M-Q21-LU2X3-H1141	1539263	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1300M-Q21-LI0X3-H1141	1539049	S099	0.05	0,01	-40...+70	IP67	•	AL
LT1300M-Q21-LU0X3-H1141	1539108	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1300M-Q21-LU2X3-H1141	1539152	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1400M-Q21-LI0X3-H1141	1539050	S099	0.05	0,01	-40...+70	IP67	•	AL
LT1400M-Q21-LU0X3-H1141	1539109	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1400M-Q21-LU2X3-H1141	1539153	S100	0.05	0,01	-40...+70	IP67	•	AL

²⁾ vom Messbereich/of measuring range/de la plage de mesure

Linearwegsensoren – Standard mit Analogausgang

Linear position sensors – Standard with analog output

Détecteurs de positionnement linéaire – Sortie analogique en standard

Abmessungen Dimensions Dimensions [mm]	Messbereich L2 ¹⁾ Measuring range L2 ¹⁾ Plage de mesure L2 ¹⁾	Messwegeinstellung über Programmierungseingang Measuring range adjustment Réglage du déplacement de mesure par entrée de programmation	Ausgangs- signal Output signal Signal de sortie [V]	Betriebs- spannung U _B Operational voltage U _B Tension de service U _B [V]	Stromaufnahme bei 10/30 VDC Current consumption at 10/30 VDC Courant absorbé à 10/30 VDC [mA]	
	1500	•	4...20 mA	10...30	80 / 35	
	1500	•	0...10 V	10...30	80 / 35	
	1500	•	-10...10 V	10...30	80 / 35	
	1600	•	4...20 mA	10...30	80 / 35	
	1600	•	0...10 V	10...30	80 / 35	
	1600	•	-10...10 V	10...30	80 / 35	
	1700	•	4...20 mA	10...30	80 / 35	
	1700	•	0...10 V	10...30	80 / 35	
	1700	•	-10...10 V	10...30	80 / 35	
	1750	•	4...20 mA	10...30	80 / 35	
	1750	•	0...10 V	10...30	80 / 35	
	1750	•	-10...10 V	10...30	80 / 35	
	1800	•	4...20 mA	10...30	80 / 35	
	1800	•	0...10 V	10...30	80 / 35	
	1800	•	-10...10 V	10...30	80 / 35	
	1900	•	4...20 mA	10...30	80 / 35	
	1900	•	0...10 V	10...30	80 / 35	
	1900	•	-10...10 V	10...30	80 / 35	
	2000	•	4...20 mA	10...30	80 / 35	
	2000	•	0...10 V	10...30	80 / 35	
2000	•	-10...10 V	10...30	80 / 35		
2250	•	4...20 mA	10...30	80 / 35		
2250	•	0...10 V	10...30	80 / 35		
2250	•	-10...10 V	10...30	80 / 35		
2500	•	4...20 mA	10...30	80 / 35		
2500	•	0...10 V	10...30	80 / 35		
2500	•	-10...10 V	10...30	80 / 35		
2750	•	4...20 mA	10...30	80 / 35		
2750	•	0...10 V	10...30	80 / 35		
2750	•	-10...10 V	10...30	80 / 35		
3000	•	4...20 mA	10...30	80 / 35		
3000	•	0...10 V	10...30	80 / 35		
3000	•	-10...10 V	10...30	80 / 35		
3250	•	4...20 mA	10...30	80 / 35		
3250	•	0...10 V	10...30	80 / 35		
3250	•	-10...10 V	10...30	80 / 35		
3500	•	4...20 mA	10...30	80 / 35		
3500	•	0...10 V	10...30	80 / 35		
3500	•	-10...10 V	10...30	80 / 35		
3750	•	4...20 mA	10...30	80 / 35		
3750	•	0...10 V	10...30	80 / 35		
3750	•	-10...10 V	10...30	80 / 35		
4000	•	4...20 mA	10...30	80 / 35		

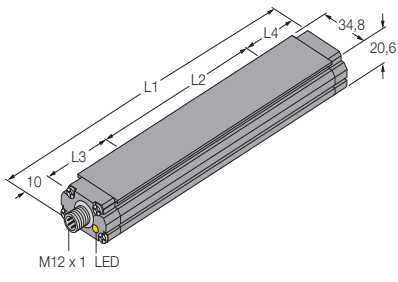
¹⁾ L1 = (Messbereich L2/measuring range L2/plage de mesure L2) + (114,3 mm Blindzone/blind zone/zone morte)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Linearität ²⁾ Linearity ²⁾ Linéarité ²⁾ [%]	Wiederholgenauigkeit ²⁾ Repeat accuracy ²⁾ Reproductibilité ²⁾ [%]	Betriebs- temperatur Operating temperature Température de fonctionnement [°C]	Schutzart Degree of protection Degré de protection	3-Farben LED (Zustand) Tri-colour LED (status) LED tricolore (état)	Werkstoffe/ Materials/ Matériaux (IEC 852) Gehäuse Housing Boîtier
LT1500M-Q21-LI0X3-H1141	1539027	S099	0.05	0,01	-40...+70	IP67	•	AL
LT1500M-Q21-LU0X3-H1141	1539015	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1500M-Q21-LU2X3-H1141	1539021	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1600M-Q21-LI0X3-H1141	1539051	S099	0.05	0,01	-40...+70	IP67	•	AL
LT1600M-Q21-LU0X3-H1141	1539111	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1600M-Q21-LU2X3-H1141	1539155	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1700M-Q21-LI0X3-H1141	1539052	S099	0.05	0,01	-40...+70	IP67	•	AL
LT1700M-Q21-LU0X3-H1141	1539112	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1700M-Q21-LU2X3-H1141	1539156	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1750M-Q21-LI0X3-H1141	1539266	S099	0.05	0,01	-40...+70	IP67	•	AL
LT1750M-Q21-LU0X3-H1141	1539270	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1750M-Q21-LU2X3-H1141	1539264	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1800M-Q21-LI0X3-H1141	1539053	S099	0.05	0,01	-40...+70	IP67	•	AL
LT1800M-Q21-LU0X3-H1141	1539113	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1800M-Q21-LU2X3-H1141	1539157	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1900M-Q21-LI0X3-H1141	1539054	S099	0.05	0,01	-40...+70	IP67	•	AL
LT1900M-Q21-LU0X3-H1141	1539114	S100	0.05	0,01	-40...+70	IP67	•	AL
LT1900M-Q21-LU2X3-H1141	1539158	S100	0.05	0,01	-40...+70	IP67	•	AL
LT2000M-Q21-LI0X3-H1141	1539055	S099	0.05	0,01	-40...+70	IP67	•	AL
LT2000M-Q21-LU0X3-H1141	1539115	S100	0.05	0,01	-40...+70	IP67	•	AL
LT2000M-Q21-LU2X3-H1141	1539159	S100	0.05	0,01	-40...+70	IP67	•	AL
LT2250M-Q21-LI0X3-H1141	1539056	S099	0.05	0,01	-40...+70	IP67	•	AL
LT2250M-Q21-LU0X3-H1141	1539116	S100	0.05	0,01	-40...+70	IP67	•	AL
LT2250M-Q21-LU2X3-H1141	1539160	S100	0.05	0,01	-40...+70	IP67	•	AL
LT2500M-Q21-LI0X3-H1141	1539057	S099	0.05	0,01	-40...+70	IP67	•	AL
LT2500M-Q21-LU0X3-H1141	1539117	S100	0.05	0,01	-40...+70	IP67	•	AL
LT2500M-Q21-LU2X3-H1141	1539161	S100	0.05	0,01	-40...+70	IP67	•	AL
LT2750M-Q21-LI0X3-H1141	1539058	S099	0.05	0,01	-40...+70	IP67	•	AL
LT2750M-Q21-LU0X3-H1141	1539118	S100	0.05	0,01	-40...+70	IP67	•	AL
LT2750M-Q21-LU2X3-H1141	1539162	S100	0.05	0,01	-40...+70	IP67	•	AL
LT3000M-Q21-LI0X3-H1141	1539059	S099	0.05	0,01	-40...+70	IP67	•	AL
LT3000M-Q21-LU0X3-H1141	1539119	S100	0.05	0,01	-40...+70	IP67	•	AL
LT3000M-Q21-LU2X3-H1141	1539163	S100	0.05	0,01	-40...+70	IP67	•	AL
LT3250M-Q21-LI0X3-H1141	1539060	S099	0.05	0,01	-40...+70	IP67	•	AL
LT3250M-Q21-LU0X3-H1141	1539120	S100	0.05	0,01	-40...+70	IP67	•	AL
LT3250M-Q21-LU2X3-H1141	1539164	S100	0.05	0,01	-40...+70	IP67	•	AL
LT3500M-Q21-LI0X3-H1141	1539061	S099	0.05	0,01	-40...+70	IP67	•	AL
LT3500M-Q21-LU0X3-H1141	1539121	S100	0.05	0,01	-40...+70	IP67	•	AL
LT3500M-Q21-LU2X3-H1141	1539165	S100	0.05	0,01	-40...+70	IP67	•	AL
LT3750M-Q21-LI0X3-H1141	1539062	S099	0.05	0,01	-40...+70	IP67	•	AL
LT3750M-Q21-LU0X3-H1141	1539122	S100	0.05	0,01	-40...+70	IP67	•	AL
LT3750M-Q21-LU2X3-H1141	1539166	S100	0.05	0,01	-40...+70	IP67	•	AL
LT4000M-Q21-LI0X3-H1141	1539063	S099	0.05	0,01	-40...+70	IP67	•	AL

Sensortechnik/Sensors/
Détecteurs

²⁾ vom Messbereich/of measuring range/de la plage de mesure

Linienwegensensoren – Standard mit Analogausgang
Linear position sensors – Standard with analog output
Détecteurs de positionnement linéaire – Sortie analogique en standard

Abmessungen Dimensions Dimensions [mm]	Messbereich L2 ¹⁾ Measuring range L2 ¹⁾ Plage de mesure L2 ¹⁾	Messwegeinstellung über Programmiereingang Measuring range adjustment Réglage du déplacement de mesure par entrée de programmation	Ausgangs- signal Output signal Signal de sortie [V]	Betriebs- spannung U _B Operational voltage U _B Tension de service U _B [V]	Stromaufnahme bei 10/30 VDC Current consumption at 10/30 VDC Courant absorbé à 10/30 VDC [mA]	
	4000	•	0...10 V	10...30	80 / 35	
	4000	•	-10...10 V	10...30	80 / 35	
	4250	•	4...20 mA	10...30	80 / 35	
	4250	•	0...10 V	10...30	80 / 35	
	4250	•	-10...10 V	10...30	80 / 35	
	4500	•	4...20 mA	10...30	80 / 35	
	4500	•	0...10 V	10...30	80 / 35	
	4500	•	-10...10 V	10...30	80 / 35	

¹⁾ L1 = (Messbereich L2/measuring range L2/plage de mesure L2) + (114,3 mm Blindzone/blind zone/zone morte)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Linearität ²⁾ Linearity ²⁾ Linéarité ²⁾ [%]	Wiederholgenauigkeit ²⁾ Repeat accuracy ²⁾ Reproductibilité ²⁾ [%]	Betriebs- temperatur Operating temperature Température de fonctionnement [°C]	Schutzart Degree of protection Degré de protection	3-Farben LED (Zustand) Tri-colour LED (status) LED tricolore (état)	Werkstoffe/ Materials/ Matériaux (IEC 852) Gehäuse Housing Boîtier
LT4000M-Q21-LU0X3-H1141	1539123	S100	0.05	0,01	-40...+70	IP67	•	AL
LT4000M-Q21-LU2X3-H1141	1539167	S100	0.05	0,01	-40...+70	IP67	•	AL
LT4250M-Q21-LI0X3-H1141	1539064	S099	0.05	0,01	-40...+70	IP67	•	AL
LT4250M-Q21-LU0X3-H1141	1539124	S100	0.05	0,01	-40...+70	IP67	•	AL
LT4250M-Q21-LU2X3-H1141	1539168	S100	0.05	0,01	-40...+70	IP67	•	AL
LT4500M-Q21-LI0X3-H1141	1539065	S099	0.05	0,01	-40...+70	IP67	•	AL
LT4500M-Q21-LU0X3-H1141	1539125	S100	0.05	0,01	-40...+70	IP67	•	AL
LT4500M-Q21-LU2X3-H1141	1539169	S100	0.05	0,01	-40...+70	IP67	•	AL

Sensortechnik/Sensors/
Détecteurs

²⁾ vom Messbereich/of measuring range/de la plage de mesure

BL ident® – modulares RFID-System – Nutzen Sie die Vorteile!

BL ident® ist ein RFID-Komplettsystem, das primär auf den Einsatz in industrieller Umgebung zugeschnitten ist und hier seine besonderen Stärken zeigt. Es basiert auf den modularen I/O-Systemen BL67 (Feldmontage) und BL20 (Schaltschrankmontage) und besteht aus Datenträgern, Schreib-Lese-Köpfen, Verbindungstechnik und Interfaces (Gateway und RFID-I/O-Module).

Auch die Datenträger sind der industriellen Umgebung angepasst. Zum Angebot gehören nicht nur extrem schnelle, nahezu unbegrenzt beschreibbare FRAM-Datenträger, sondern auch Hochtemperaturvarianten bis 210 °C, die z. B. in Lackierstraßen eingesetzt werden können.

Ein weiteres Feature: *BL ident®* lässt sich problemlos in bestehende Anlagenkonfigurationen integrieren.

Nutzen Sie die neuen Vorteile für industrielle Anforderungen mit RFID-Lösungen von TURCK.

BL ident® in Schutzart IP67

BL ident® in Schutzart IP67 kann durch Standard-I/O-Module erweitert werden. Sie erhalten ein Remote-I/O-System das alle Eigenschaften und Vorzüge moderner IP20-Systeme in die raue IP67-Umgebung überträgt. Flexibilität und Planungsfreiheit auf allen Ebenen ist dabei oberstes Gebot: Über das BL67-Gateway wird eine Unabhängigkeit der Module vom Feldbus erreicht. Es steuert den kompletten Datenverkehr zwischen Feldbus und I/O-Modulen.

Die Elektronikmodule können ohne Demontage der Feldverdrahtung auch im laufenden Betrieb lastfrei gezogen und gesteckt werden.

Das System lässt sich sowohl direkt an der Maschine als auch auf DIN-Schienen montieren.

BL ident® in Schutzart IP20

BL ident® in Schutzart IP20 kann durch Standard-I/O-Module in alle gängigen Feldbusse eingebunden werden. Als Bindeglied werden jeweils Gateways eingesetzt, die den kompletten Datenverkehr zwischen dem Feldbusssystem und den I/O-Modulen steuern.

Jede BL20-Station besteht aus einem Buskoppler und aus den jeweils erforderlichen Elektronik- und Basismodulen.

Die Basismodule lassen sich einfach auf eine DIN-Tragschiene aufrasten; die Elektronikmodule werden – ebenfalls werkzeuglos – auf die Basismodule gesteckt. Basis- und Elektronikmodule sind mechanisch kodiert und dadurch einfach und sicher zuzuordnen.

The BL ident® modular RFID system – Make use of the advantages!

BL ident® is a complete RFID system which is designed in first place for industrial applications and thus develops its special strengths in this field. It is based on the modular I/O systems BL67 (field application) and BL20 (cabinet mounting) and consists of data carriers (tags), read-write heads, connection technology and sets (gateway and RFID I/O modules). The data carriers are adjusted to the correspondent industrial application. The product portfolio comprises not only extremely quick and almost infinitely re-writable FRAM data carriers, but also high temperature versions with an applicability of up to 210 °C which can be applied in coating lines. Moreover, *BL ident®* can be integrated in existing system configurations without any problems.

Make use of the new advantages for industrial applications with RFID solutions made by TURCK.

BL ident® in degree of protection IP67

BL ident® in degree of protection IP67 can be extended with standard-I/O modules. You get a remote I/O system that incorporates all characteristics and advantages of modern IP20 systems in the rough IP67 environment. The modular I/O system BL67 incorporates all characteristics and advantages of modern IP20 systems in the rough IP67 environment. Flexibility and planning freedom on all levels is thereby imperative: Via the BL67 gateway independence of the modules from the fieldbus is achieved. The gateway controls the complete data transfer between fieldbus and I/O modules. Furthermore, electronic modules can be plugged and unplugged unencumbered during operation without disconnecting the field wiring. The system can be mounted directly on the machine as well as on DIN rail.



Système RFID modulaire *BL ident*[®] – Profitez de ses avantages!

BL ident[®] in degree of protection IP20

BL ident[®] in degree of protection IP20 is designed for integration standard I/O modules in all major fieldbuses. Gateways are the linking element to control the entire data transfer between the fieldbus system and the I/O modules. Each BL20 station consists of a bus coupler and of the corresponding electronic and base modules. Without using tools, the base modules can be easily clipped on a DIN rail and the electronic modules are clipped on the base modules. Base and electronic modules are mechanically coded and therefore simple and safe to allocate.

BL ident[®] est un système RFID complet conçu en premier lieu pour les applications industrielles. Le système s'est basé sur les systèmes E/S modulaires BL67 (montage sur le site) et BL20 (montage dans l'armoire électrique) et se compose d'étiquettes électroniques, de têtes d'écriture/de lecture, de la connectique et d'interfaces (passerelle et modules E/S RFID).

Même les étiquettes électroniques sont adaptées à l'environnement industriel. Dans cette gamme se trouvent non seulement des étiquettes électroniques FRAM réinscriptibles presque infiniment, mais également les variantes haute température jusque 210 °C, pouvant être utilisées par exemple dans les lignes de peinture.

BL ident[®] en mode de protection IP20

BL ident[®] en mode de protection IP20 peut être intégré dans tous les bus de terrain courants en utilisant les modules E/S standard. Des passerelles sont utilisées comme lien qui commandent l'ensemble de l'échange de données entre le système de bus de terrain et les modules E/S. Chaque station BL20 se compose d'un coupleur bus et des modules d'électronique et de base correspondants. Les modules de base sont encliquetés sur un rail DIN; les modules d'électronique sont – également sans nécessité d'outils – fichés sur les modules de base. Les modules de base et d'électronique sont codés mécaniquement et voilà pourquoi faciles et sûrement à assigner.

De plus, le *BL ident*[®] peut être intégré parfaitement dans les configurations d'installations existantes.

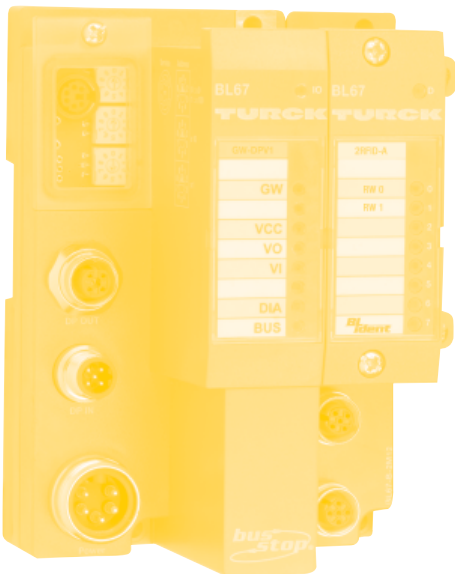
Profitez des nouveaux avantages pour les applications industrielles en utilisant les solutions RFID de TURCK.

BL ident[®] en mode de protection IP67

BL ident[®] en mode de protection IP67 peut être étendu de modules E/S standard ce qui résulte dans un système E/S déporté incorporant l'ensemble des caractéristiques et avantages de systèmes IP20 modernes dans un environnement IP67 difficile. La flexibilité et le choix de planification jouent un rôle primordial à tous les niveaux: la passerelle BL67 permet une indépendance des modules par rapport au bus de terrain. Elle commande l'échange de données entre le bus de terrain et les modules E/S.

Les modules d'électronique peuvent être enlevés et fichés sans démonter le câblage et ceci en cours de service.

Le système permet un montage tant directement à la machine que sur rail DIN.



Vielfältig kombinierbar: *BL ident*® – Schreib-Leseköpfe und Datenträger, Teil 1
Versatile combinable: *BL ident*® – Read-write heads and data carrier, part 1
Combinaison multiple: *BL ident*® – Têtes d'écriture/lecture et étiquette électronique, partie 1

Datenträger/ Data carrier/ Etiquette élect.	Schreib-Lese-Köpfe/ Read-write heads/ Têtes d'écriture/lecture															
		TB-M18-H1147 7030001	TB-EM18WD-H1147 7030224	TN-M18-H1147 7030002	TN-EM18WD-H1147 7030223	TB-M30-H1147 7030003	TB-EM30WD-H1147 7030221	TN-M30-H1147 7030004	TN-EM30WD-H1147 7030222	TN-Q14-0.15-RS4.47T 7030235	TN-CK40-H1147 7030006	TN-Q80-H1147 7030007	TNER-Q80-H1147 7030211	TNLR-Q80-H1147 7030230	TN-S32XL-H1147 7030008	
TW-R7.5-B128 7030231	E M L	8 14 16	8 14 16	8 16 20	8 16 20	8 18 20	8 18 20	10 30 28	10 30 28		13 30 42	10 34 62		20 41 60		
TW-R16-B64 6901346	E M L												45 80 92			
TW-R16-B128 6900501	E M L	10 17 14	10 17 14	12 23 26	12 23 26	12 23 20	12 23 20	20 38 44	20 38 44	15 31 36	28 50 54	20 52 60		50 85 90	20 67 125	
TW-R20-B128 6900502	E M L	8 15 12	8 15 12	10 22 26	10 22 26	15 27 20	15 27 20	22 40 34	22 40 34	15 34 38	30 50 50	35 65 72		50 88 92	36 72 103	
TW-R30-B128 6900503	E M L	8 17 22	8 17 22	10 25 34	10 25 34	13 30 32	13 30 32	22 43 56	22 43 56	23 47 54	30 53 62	35 72 80		60 115 116	30 80 120	
TW-R50-B128 6900504	E M L			20 41 70	20 41 70	20 43 46	20 43 46	40 72 76	40 72 76	30 60 70	45 85 96	65 118 120		80 165 168	80 150 160	
TW-R20-K2 6900505	E M L	5 12 16	5 12 16	12 20 24	12 20 24	15 22 20	15 22 20	17 31 32	17 31 32	15 30 35	22 40 36	25 52 70		40 75 84	20 60 130	
TW-R30-K2 6900506	E M L	6 14 18	6 14 18	16 31 32	16 31 32	15 27 32	15 27 32	23 42 50	23 42 50	20 41 45	30 55 56	35 67 80		60 98 104	30 82 132	
TW-R50-K2 6900507	E M L			12 30 60	12 30 60	15 33 36	15 33 36	30 58 76	30 58 76	20 55 69	38 81 82	50 100 110		90 144 150	60 128 160	
TW-R22-HT-B64 1542323	E M L												34 69 92			
TW-R50-90-HT-B128 1542326	E M L			x 11 70	x 11 70	x 13 46	x 13 46	10 42 76	10 42 76	x 30 70	15 55 96	35 88 120		50 135 168	50 120 160	
TW-R50-90-HT-K2 1542329	E M L							x 28 76	x 28 76	x 25 69	8 51 82	20 70 110		60 114 150	30 98 160	
TW-R50-MF-K2³⁾ 7030232	E M L			7 10 28	7 10 28			10 23 38	10 23 38		10 33 50	20 35 48		30 57 70		

Die Tabelle auf dieser und der nächsten Doppelseite informiert über die Kombinationsmöglichkeiten der Schreib-Lese-Köpfe und Datenträger und gibt an:
E = empfohlenen Schreib-Lese-Abstand (x = nicht bestimmt)
M = max. Schreib-Lese-Abstand
L = Länge der Übertragungszone bei empfohlenem Abstand

The table on this and the next double page informs about the combination possibilities of read-write heads and data carriers:
E = recommended read-write distance (x = not defined)
M = max. read-write distance
L = Length of the transmission zone with recommended distance

Le tableau à cette page double et la suivante vous informe sur les possibilités de combinaison des têtes d'écriture/lecture et les étiquettes électroniques:
E = distance d'écriture/lecture recommandée (x = non définie)
M = distance d'écriture/lecture max.
L = longueur de la zone de transmission à une distance recommandée

1) längsseitige Ausrichtung/lengthwise direction/alignement en long
 2) querseitige Ausrichtung/crosswise direction/alignement de travers

	TNLR-Q80L-400-H1147 ¹⁾ 7030204	TNLR-Q80L-400-H1147L ¹⁾ 7030234	TNLR-Q80L-400-H1147 ²⁾ 7030204	TNLR-Q80L-400-H1147L ²⁾ 7030234	TNLR-Q350-H1147 7030220	TB-M18-H1147/S1126 7030212	TB-EM18WD-H1147/S1126 7030228	TN-M18-H1147/S1126 7030213	TN-EM18WD-H1147/S1126 7030227	TB-M30-H1147/S1126 7030214	TB-EM30WD-H1147/S1126 7030225	TN-M30-H1147/S1126 7030215	TN-EM30WD-H1147/S1126 7030226	TN-CK40-H1147/S1126 7030216	TN-Q80-H1147/S1126 7030217	TNLR-Q80-H1147/S1126 7030219
						8 14 16	8 14 16	8 16 20	8 16 20	8 18 20	8 18 20	10 30 28	10 30 28	13 30 42		
						10 17 14	10 17 14	12 23 26	12 23 26	12 23 20	12 23 20	20 38 44	20 38 44	28 50 54	20 52 60	50 85 90
	30 105 410	30 105 410	50 95 74	50 95 74	60 203 360	10 17 14	10 17 14	12 23 26	12 23 26	12 23 20	12 23 20	20 38 44	20 38 44	28 50 54	20 52 60	50 85 90
	40 110 404	40 110 404	60 102 86	60 102 86	100 215 350	8 15 12	8 15 12	10 22 26	10 22 26	15 27 20	15 27 20	22 40 34	22 40 34	30 50 50	35 65 72	50 88 92
	60 158 434	60 158 434	90 152 132	90 152 132	80 218 350	8 17 22	8 17 22	10 25 34	10 25 34	13 30 32	13 30 32	22 43 56	22 43 56	30 53 62	35 72 80	60 115 116
	100 268 484	100 268 484	150 256 230	150 256 230	200 462 530			20 41 70	20 41 70	20 43 46	20 43 46	40 72 76	40 72 76	45 85 96	65 118 120	80 165 168
	30 80 390	30 80 390	15 64 70	15 64 70	80 155 310											
	50 125 416	50 125 416	70 122 100	70 122 100	100 250 380											
	90 230 466	90 230 466	120 216 190	120 216 190	200 405 480											
								1 12 26	1 12 26	1 12 20	1 12 20	9 27 44	9 27 44	17 39 54	9 41 60	39 74 90
	70 238 484	70 238 484	120 226 230	120 226 230	170 432 530					x 13 46	x 13 46	10 42 76	10 42 76	15 55 96	35 88 120	50 135 168
	60 200 466	60 200 466	90 186 190	90 186 190	170 375 480											

Schreib-Lese-Köpfe/Read-write heads

Têtes d'écriture/lecture

■ = auch für/as well as/aussi pour:

- Texas Instruments EEPROM
- Infineon EEPROM

Datenträger/data carrier/Étiquette électronique

■ = PHILIPS I-Code SLI (SL2)

■ = Fujitsu FRAM

■ = PHILIPS I-Code SL1

Die Schreib-Lese-Köpfe mit den Ziffern

S1126 in der Typenbezeichnung sind für verschiedene Datenträger optimiert./

The read-write heads with the type code **S1126** are optimized for different data carriers./

Les têtes d'écriture/lecture contenant la désignation **S1126** sont optimisées pour plusieurs étiquettes électroniques.

³⁾ Werte gemessen: Datenträger auf Metall (St37) mit Kunststoffschrauben/Measured values: data carrier on metal (St37) with plastic screws/
Valeurs mesurées: Etiquette électronique sur métal (A37) par vis plastique

Vielfältig kombinierbar: BL ident® – Schreib-Leseköpfe und Datenträger, Teil 2
Versatile combinable: BL ident® – Read-write heads and data carrier, part 2
Combinaison multiple: BL ident® – Têtes d'écriture/lecture et étiquette électronique, partie 2

Datenträger/ Data carrier/ Etiquette électr.	Schreib-Lese-Köpfe/ Read-write heads/ Têtes d'écriture/lecture															
		TB-M18-H1147 7030001	TB-EM18WD-H1147 7030224	TN-M18-H1147 7030002	TN-EM18WD-H1147 7030223	TB-M30-H1147 7030003	TB-EM30WD-H1147 7030221	TN-M30-H1147 7030004	TN-EM30WD-H1147 7030222	TN-Q14-0.15-RS4.47T 7030235	TN-CK40-H1147 7030006	TN-Q80-H1147 7030007	TNER-Q80-H1147 7030211	TNLR-Q80-H1147 7030230	TN-S32XL-H1147 7030008	
TW-I14-B128 6900526	E	10	10	12	12	12	12	20	20	15	28	20		50	20	
	M	17	17	23	23	23	23	38	38	31	50	52		85	67	
	L	14	14	26	26	20	20	44	44	36	54	60		90	125	
TW-L43-43-F-B128 6901344	E	15	15	25	25	25	25	30	30	30	50	60		90	80	
	M	30	30	45	45	42	42	64	64	53	90	115		155	140	
	L	34	34	44	44	44	44	68	68	62	94	116		160	174	
TW-L82-49-P-B128 6901345	E	15	15	20	20	20	20	30	30	20	50	65		90	80	
	M	23	23	40	40	43	43	65	65	54	96	128		168	160	
	L	64	64	72	72	76	76	84	84	84	110	136		170	190	
TW-BS10X1.5-19-K2 6901380	E					4	4	5	5	5	6					
	M					12	12	15	15	13	18					
	L					17	17	21	21	24	34					
TW-BD10X1.5-19-K2 6901381	E	6	6	8	8	10	10	14	14	10	20					
	M	14	14	17	17	20	20	29	29	25	39					
	L	16	16	22	22	22	22	30	30	31	44					
TW-SPP18x1-B128 6901062	E	5	5	5	5	10	10	10	10	10	15	15		30		
	M	11	11	16	16	17	17	24	24	20	34	39		66		
	L	14	14	22	22	26	26	34	34	30	46	60		80		
TW-R30-M-B128 3) 7030210	E	8	8	6	6					15						
	M	12	12	14	14					23						
	L	16	16	16	16					18						
TW-R50-M-B128 3) 7030209	E	8	8	10	10	15	15	20	20	15	23	25		35		
	M	18	18	22	22	27	27	36	36	29	46	53		58		
	L	22	22	22	22	22	22	34	34	34	48	66		64		
TW-R80-M-B128 3) 7030207	E									15	25	40		50		
	M									35	53	76		90		
	L									46	68	76		90		
TW-R30-M-K2 3) 7030206	E	7	7	6	6					5						
	M	10	10	13	13					18						
	L	18	18	10	10					26						
TW-R50-M-K2 3) 7030229	E	7	7	10	10	10	10	15	15	15	15	15		30		
	M	15	15	22	22	21	21	30	30	30	37	41		58		
	L	24	24	32	32	26	26	32	32	36	46	58		76		
TW-R80-M-K2 3) 7030205	E									20	15	20		35		
	M									34	47	55		78		
	L									46	54	64		80		

HINWEIS:

Der maximale Schreib-/Leseabstand (M), und die Länge der Übertragungszone (L) stellen nur typische Werte unter Laborbedingungen dar. Durch Bauteiltoleranzen, Einbausituation in der Applikation, Umgebungsbedingungen und Beeinflussung durch Materialien (insbesondere Metall) können die erreichbaren Abstände bis zu 30 % abweichen. Darum ist ein Test der Applikation (besonders beim Lesen und Schreiben in der Bewegung) unter Realbedingungen

unbedingt erforderlich! Weiterhin sollte der empfohlene Abstand von Datenträger zu Schreib-Lese-Kopf möglichst eingehalten werden um trotz eventueller Abweichungen in der Reichweite einwandfreie Schreib-/Lesevorgänge zu erreichen.

NOTE:

The maximum read-write distance (M) and the length of the transmission zone (L) only represent standard values determined under laboratory test conditions. Deviation of read-write distances up to 30 % are possible due to component tolerances, mounting and ambient conditions and due to materials (especially metal). Therefore a test under real application conditions is recommended, especially with regard to read-write on the fly!

1) längsseitige Ausrichtung/lengthwise direction/alignement en long
 2) querseitige Ausrichtung/crosswise direction/alignement de travers

TNLR-Q80L-400-H1147 ¹⁾ 7030204	TNLR-Q80L-400-H1147L ¹⁾ 7030234	TNLR-Q80L-400-H1147 ²⁾ 7030204	TNLR-Q80L-400-H1147L ²⁾ 7030234	TNLR-Q350-H1147 7030220	TB-M18-H1147/S1126 7030212	TB-EM18WD-H1147/S1126 7030228	TN-M18-H1147/S1126 7030213	TN-EM18WD-H1147/S1126 7030227	TB-M30-H1147/S1126 7030214	TB-EM30WD-H1147/S1126 7030225	TN-M30-H1147/S1126 7030215	TN-EM30WD-H1147/S1126 7030226	TN-CK40-H1147/S1126 7030216	TN-Q80-H1147/S1126 7030217	TNLR-Q80-H1147/S1126 7030219
30 105 410	30 105 410	50 95 74	50 95 74	60 203 360	10 17 14	10 17 14	12 23 26	12 23 26	12 23 20	12 23 20	20 38 44	20 38 44	28 50 54	20 52 60	50 85 90
80 222 464	80 222 464	88 207 176	88 207 176	200 416 458	15 30 34	15 30 34	25 45 44	25 45 44	25 42 44	25 42 44	30 64 68	30 64 68	50 90 94	60 115 116	90 155 160
100 270 488	100 270 488	160 270 240	160 270 240	240 500 518	15 23 64	15 23 64	20 40 72	20 40 72	20 43 76	20 43 76	30 65 84	30 65 84	50 96 110	65 128 136	90 168 170
					5 11 14	5 11 14	5 16 22	5 16 22	10 17 26	10 17 26	10 24 34	10 24 34	15 34 46	15 39 60	30 66 80
					8 12 16	8 12 16	6 14 16	6 14 16							
					8 18 22	8 18 22	10 22 22	10 22 22	15 27 22	15 27 22	20 36 34	20 36 34	23 46 48	25 53 66	35 58 64
	30 77 398	30 77 398	40 77 56	40 77 56										25 53 68	40 76 90
	30 68 390	30 68 390	30 77 64	30 77 64											

ATTENTION:

Moreover the recommended distance between data carrier and read-write head should be observed, in order to obtain correct read-write processes.

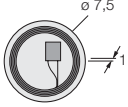
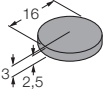
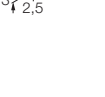
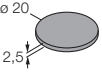
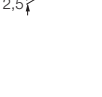
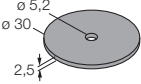
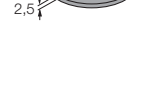
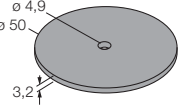

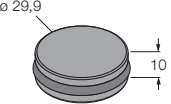
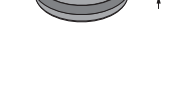
La distance d'écriture/lecture maximale (M), et la longueur de la zone de transmission (L) représentent uniquement des valeurs typiques à des conditions de laboratoire.

Par les tolérances de composants, la situation de montage dans l'application, les conditions d'environnement et l'influence par les matériaux (en particulier le métal) les distances possibles peuvent s'écarter jusqu'à 30 %. Voilà pourquoi il est indispensable d'effectuer un test

de l'application (particulièrement pour la lecture et l'écriture en mouvement) à des conditions réelles! De plus, la distance recommandée de l'étiquette électronique par rapport à la tête d'écriture/lecture doit être respectée afin d'obtenir des procédés d'écriture/lecture impeccables nonobstand des écarts éventuels au niveau de la portée.

³⁾ Werte gemessen: Datenträger bündig in Metall (St37) eingebaut/Measured values: data carrier mounted flush in metal (St37)/ Valeurs mesurées: Montage blindé de l'étiquette électronique dans le métal (A37)

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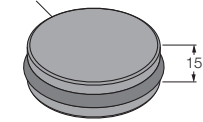

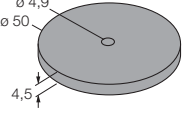
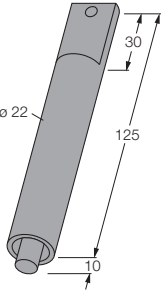
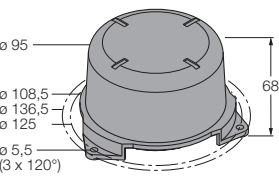
Abmessungen Dimensions Dimensions [mm]	Arbeitsfrequenz Operating frequency Fréquence de fonctionnement [MHz]	Speichergröße Memory size Taille de mémoire [Byte]	Anzahl der Number of Nombre des		Lesezeit (typ) Read time (typ) Temps de lecture (typ.) [ms/Byte]	Schreibzeit (typ) Write time (typ) Temps d'écriture (typ.) [ms/Byte]	
			Lese-Operationen Read operations opérations de lecture	Schreib-Operationen Write operations opérations d'écriture			
	13.56	128	∞	10 ⁵	2	3	
	13.56	64	∞	10 ⁵	2	3	
	13.56	128	∞	10 ⁵	2	3	
	13.56	128	∞	10 ⁵	2	3	
	13.56	2 k	∞	10 ¹⁰	0,5	0,5	
	13.56	128	∞	10 ⁵	2	3	
	13.56	2 k	∞	10 ¹⁰	0,5	0,5	
	13.56	128	∞	10 ⁵	2	3	
	13.56	2 k	∞	10 ¹⁰	0,5	0,5	
	13.56	128	∞	10 ⁵	2	3	
	13.56	2 k	∞	10 ¹⁰	0,5	0,5	

¹⁾ Zur direkten Montage auf oder in Metall (ggf. Zubehör erforderlich)/For direct mounting on metal (accessories possibly needed)/Pour le montage direct sur ou dans le métal (éventuellement accessoires requis)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Speicher- organisation Memory organisation Organisation de la mémoire	Farbe Color Couleur	Umgebungs- temperatur Ambient temperature Température ambiante [°C]	Lagertemperatur Storage temperature Température de stockage [°C]	Schutzart Degree of protection Degré de protection	Material Gehäuse Material housing Matériau boîtier (IEC 852)
TW-R7.5-B128	7030231	EEPROM	–	-25...+85 °C	-40...+90 °C	IP68	EP
TW-R16-B64²⁾ TW-R16-B128²⁾	6901346 6900501	EEPROM EEPROM	schwarz/black/noir schwarz/black/noir	-25...+85 °C -25...+85 °C	-40...+90 °C -40...+90 °C	IP68 IP68	PA6 PA6
TW-R20-B128 TW-R20-K2	6900502 6900505	EEPROM FRAM	schwarz/black/noir schwarz/black/noir	-25...+85 °C -20...+85 °C	-40...+90 °C -20...+85 °C	IP68 IP68	PA6 PA6
TW-R30-B128 TW-R30-K2	6900503 6900506	EEPROM FRAM	schwarz/black/noir schwarz/black/noir	-25...+85 °C -20...+85 °C	-40...+90 °C -20...+85 °C	IP68 IP68	PA6 PA6
TW-R50-B128 TW-R50-K2	6900504 6900507	EEPROM FRAM	schwarz/black/noir schwarz/black/noir	-25...+85 °C -20...+85 °C	-40...+90 °C -20...+85 °C	IP68 IP68	PA6 PA6
TW-R30-M-B128¹⁾ TW-R30-M-K2¹⁾	7030210 7030206	EEPROM FRAM	schwarz/black/noir schwarz/black/noir	-25...+85 °C -20...+85 °C	-40...+90 °C -20...+85 °C	IP68 IP68	PET/EP PET/EP

²⁾ Weitere Informationen: siehe separates Datenblatt/For more information: see separate data sheet/Pour plus d'informations: voir la fiche technique séparée

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Abmessungen Dimensions Dimensions [mm]	Arbeitsfrequenz Operating frequency Fréquence de fonctionnement [MHz]	Speichergröße Memory size Taille de mémoire [Byte]	Anzahl der Number of Nombre des		Lesezeit (typ) Read time (typ) Temps de lecture (typ.) [ms/Byte]	Schreibzeit (typ) Write time (typ) Temps d'écriture (typ.) [ms/Byte]	
			Lese-Operationen Read operations opérations de lecture	Schreib-Operationen Write operations opérations d'écriture			
	13.56	128	∞	10 ⁵	2	3	
	13.56	2 k	∞	10 ¹⁰	0,5	0,5	
	13.56	128	∞	10 ⁵	2	3	
	13.56	2 k	∞	10 ¹⁰	0,5	0,5	
	13.56	2 k	∞	10 ¹⁰	0,5	0,5	
	13.56	64	∞	10 ⁵	2	3	
	13.56	128	∞	10 ⁵	2	3	
	13.56	2 k	∞	10 ¹⁰	0,5	0,5	

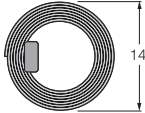
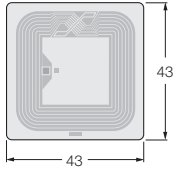
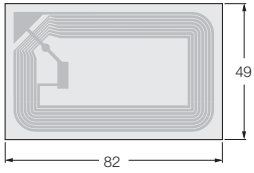
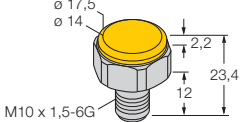
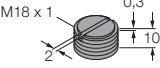
¹⁾ Zur direkten Montage auf oder in Metall (ggf. Zubehör erforderlich)/For direct mounting on metal (accessories possibly needed)/Pour le montage direct sur ou dans le métal (éventuellement accessoires requis)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Speicherorganisation Memory organisation Organisation de la mémoire	Farbe Color Couleur	Umgebungstemperatur Ambient temperature Température ambiante [°C]	Lagertemperatur Storage temperature Température de stockage [°C]	Schutzart Degree of protection Degré de protection	Material Gehäuse Material housing Matériau boîtier (IEC 852)
TW-R50-M-B128¹⁾	7030209	EEPROM	schwarz/black/noir	-25...+85 °C	-40...+90 °C	IP68	PET/EP
TW-R50-M-K2¹⁾	7030299	FRAM	schwarz/black/noir	-20...+85 °C	-20...+85 °C	IP68	PET/EP
TW-R80-M-B128¹⁾	7030207	EEPROM	schwarz/black/noir	-25...+85 °C	-40...+90 °C	IP68	PET/EP
TW-R80-M-K2¹⁾	7030205	FRAM	schwarz/black/noir	-20...+85 °C	-20...+85 °C	IP68	PET/EP
TW-R50-MF-K2¹⁾	7030232	FRAM	schwarz/black/noir	-20...+85 °C	-20...+85 °C	IP68	PET/EP
TW-R22-HT-B64²⁾ Hochtemperaturdatenträger/ High temperatur data carrier/ Etiquette électronique haute température	1542323	EEPROM	schwarz/black/noir	-40...+90 °C	-40...+210 °C	IP68	PA66 30 Minuten/ minutes/ minutes
TW-R50-90-HT-B128²⁾	1542326	EEPROM	schwarz/black/noir	-40...+210 °C	-40...+90 °C	IP68	PA66
TW-R50-90-HT-K2²⁾ Hochtemperaturdatenträger/ High temperatur data carrier/ Etiquette électronique haute température	1542329	FRAM	schwarz/black/noir	-40...+210 °C	-20...+85 °C	IP68	PA66 30 Minuten/ minutes/ minutes

Sensortechnik/Sensors/
Détecteurs

²⁾ Weitere Informationen: siehe separates Datenblatt/For more information: see separate data sheet/Pour plus d'informations: voir la fiche technique séparée

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BL ident[®] – Etiquettes électroniques mobiles

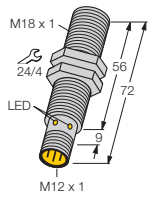





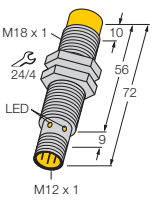





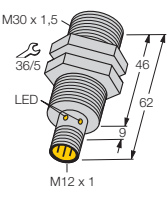





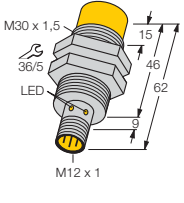





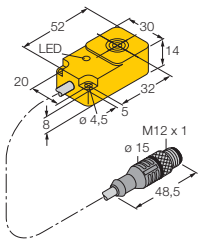


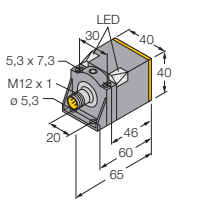


Abmessungen Dimensions Dimensions [mm]	Arbeitsfrequenz Operating frequency Fréquence de fonctionnement [MHz]	Speichergröße Memory size Taille de mémoire [Byte]	Anzahl der Number of Nombre des		Lesezeit (typ) Read time (typ) Temps de lecture (typ.) [ms/Byte]	Schreibzeit (typ) Write time (typ.) Temps d'écriture (typ.) [ms/Byte]	
			Lese-Operationen Read operations opérations de lecture	Schreib-Operationen Write operations opérations d'écriture			
	13.56	128	∞	10 ⁵	2	3	
	13.56	128	∞	10 ⁵	2	3	
	13.56	128	∞	10 ⁵	2	3	
	13.56	2 k	∞	10 ¹⁰	0,5	0,5	
	13.56	2 k	∞	10 ¹⁰	0,5	0,5	
	13.56	128	∞	10 ⁵	2	3	

¹⁾ Geignet für Autoklavenanwendungen/Suited for application in autoclaves/Se prête aux applications d'autoclaves

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Speicherorganisation Memory organisation Organisation de la mémoire	Farbe Color Couleur	Umgebungs- temperatur Ambient temperature Température ambiante [°C]	Lagertemperatur Storage temperature Température de stockage [°C]	Schutzart Degree of protection Degré de protection	Material Gehäuse Material housing Matériau boîtier (IEC 852)
TW-I14-B128TW-L43-43-F-B128 Inlay	6900526	EEPROM	–	-20...+70 °C	-20...+70 °C	IP00	–
TW-L43-43-F-B128TW-I14-B128 Smart-Label	6901344	EEPROM	–	-20...+70 °C	-20...+70 °C	IP00	–
TW-L82-43-P-B128 Smart-Label	6901345	EEPROM	weiß/white/blanc	-20...+70 °C	-20...+70 °C	IP00	–
TW-BD10X1.5-19-K2	6901381	FRAM	schwarz/black/noir	-20...+85 °C	-20...+85 °C	IP68	POM
TW-BS10X1.5-19-K2	6901380	FRAM	schwarz/black/noir	-20...+85 °C	-20...+85 °C	IP68	VA
TW-SPP18X1-B128¹⁾	6901062	EEPROM	grau/grey/gris	-25...+85 °C	-40...+90 °C	IP68	PP

Sensortechnik/Sensors/
Détecteurs

BL ident® – Schreib-Lese-Köpfe
BL ident® – Read-Write heads
BL ident® – Têtes d'écriture/lecture

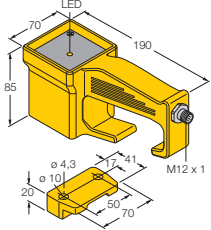

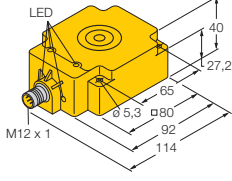





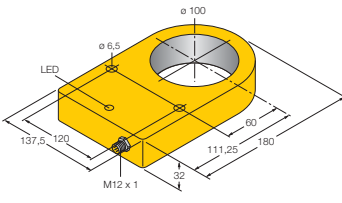

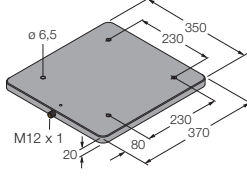

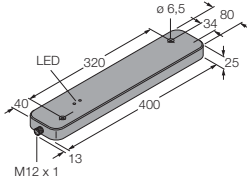

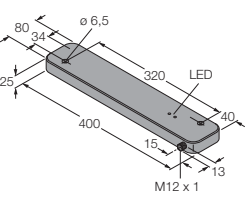

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Einbaubedingung Mounting mode Condition de montage	Umgebungs- temperatur Ambient temperature Température ambiante	Datenübertragung induktiv Data transfer inductive Transmission de données inductive	Ausgangsfunktion Schreiben/Lesen Output function read/write Fonction de sortie écrire/lire	Arbeitsfrequenz Operating frequency Fréquence de fonctionnement [MHz]	
	M18 x 1 	 -25...+70 °C	•	•	13.56	
		 -25...+70 °C	•	•	13.56	
		 -25...+70 °C	•	•	13.56	
		 -25...+70 °C	•	•	13.56	
	M18 x 1 	 -25...+70 °C	•	•	13.56	
		 -25...+70 °C	•	•	13.56	
		 -25...+70 °C	•	•	13.56	
		 -25...+70 °C	•	•	13.56	
	M30 x 1 	 -25...+70 °C	•	•	13.56	
		 -25...+70 °C	•	•	13.56	
		 -25...+70 °C	•	•	13.56	
		 -25...+70 °C	•	•	13.56	
	M30 x 1 	 -25...+70 °C	•	•	13.56	
		 -25...+70 °C	•	•	13.56	
		 -25...+70 °C	•	•	13.56	
		 -25...+70 °C	•	•	13.56	
	Q14 	 -25...+70 °C	•	•	13.56	
	CK40 	 -25...+70 °C	•	•	13.56	

¹⁾WD-Baureihe ist resistent gegen alle handelsüblichen sauren und alkalischen Reinigungs- und Desinfektionsmittel (LCP-GF30)/WD series is resistant to all common acid and alkaline detergents and disinfectants (LCP-GF30)/La série WD résiste à tous les désinfectants et détergents acides et alcalins classiques (LCP-GF30)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Werkstoff Gehäuse Housing material Matériau boîtier (☞ 852)	Werkstoff Aktive Fläche Material active face Matériau face active (☞ 852)	Anschluss Connection Raccordement (☞ 806)	Vibrations- festigkeit Vibration resistance Résistance aux vibrations	Schock- festigkeit Shock resistance Résistance aux chocs	Schutzart Degree of protection Degré de protection	LED U _B / Diagn.
TB-M18-H1147	7030001	CuZn-Cr	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TB-M18-H1147/S1126	7030212	CuZn-Cr	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TB-EM18WD-H1147¹⁾	7030224	VA	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP69K	•
TB-EM18WD-H1147/S1126¹⁾	7030228	VA	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP69K	•
TN-M18-H1147	7030002	CuZn-Cr	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TN-M18-H1147/S1126	7030213	CuZn-Cr	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TN-EM18WD-H1147¹⁾	7030223	VA	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP69K	•
TN-EM18WD-H1147/S1126¹⁾	7030227	VA	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP69K	•
TB-M30-H1147	7030003	CuZn-Cr	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TB-M30-H1147/S1126	7030214	CuZn-Cr	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TB-EM30WD-H1147¹⁾	7030221	VA	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP69K	•
TB-EM30WD-H1147/S1126¹⁾	7030225	VA	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP69K	•
TN-M30-H1147	7030004	CuZn-Cr	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TN-M30-H1147/S1126	7030215	CuZn-Cr	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TN-EM30WD-H1147¹⁾	7030222	VA	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP69K	•
TN-EM30WD-H1147/S1126¹⁾	7030226	VA	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP69K	•
TN-Q14-0.15-RS4.47T	7030235	PBT-GF30-V0	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TN-CK40-H1147	7030006	PBT-GF30-V0	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TN-CK40-H1147/S1126	7030216	PBT-GF30-V0	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP69K	•

Sensortechnik/Sensors/
Détecteurs

BL ident[®] – Schreib-Lese-Köpfe
BL ident[®] – Read-Write heads
BL ident[®] – Têtes d'écriture/lecture

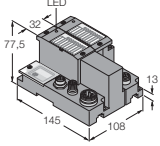
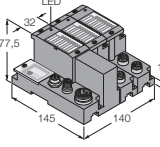
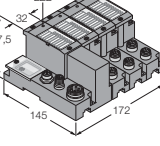
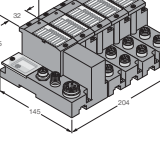
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Einbaubedingung Mounting mode Condition de montage	Umgebungs- temperatur Ambient temperature Température ambiante	Datenübertragung induktiv Data transfer inductive Transmission de données inductive	Ausgangsfunktion Schreiben/Lesen Output function read/write Fonction de sortie écrire/lire	Arbeitsfrequenz Operating frequency Fréquence de fonctionnement [MHz]	
 <p>Handgerät Port. device Appareil portatif</p>		-25...+70 °C	•	•	13.56	
 <p>Q80</p>		-25...+70 °C	•	•	13.56	
		-25...+70 °C	•	•	13.56	
		-25...+70 °C	•	•	13.56	
		-25...+70 °C	•	•	13.56	
		-25...+70 °C	•	•	13.56	
 <p>S32XL</p>		-25...+70 °C	•	•	13.56	
 <p>Q350</p>		-25...+70 °C	•	•	13.56	
 <p>Q80L400</p>		-25...+70 °C	•	•	13.56	
 <p>Q80L400</p>		-25...+70 °C	•	•	13.56	

¹⁾ Geeignet zur Montage in Rollenbahnen; längsseitige und querseitige Ausrichtung des Schreib-Lese-Kopfes möglich/Suited for mounting in roller conveyors; length and cross-wise alignment of the read-write head/Se prête au montage dans des convoyeurs à billes; possibilité d'alignement en long et de travers de la tête d'écriture/lecture

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Werkstoff Gehäuse Housing material Matériau boîtier (ISO 852)	Werkstoff Aktive Fläche Material active face Matériau face active (ISO 852)	Anschluss Connection Raccordement (ISO 806)	Vibrations- festigkeit Vibration resistance Résistance aux vibrations	Schock- festigkeit Shock resistance Résistance aux chocs	Schutzart Degree of protection Degré de protection	LED U _B / Diagn.
HT-Ident-H1147	7030236	PA	PA	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TN-Q80-H1147	7030007	PBT-GF30-V0	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TN-Q80-H1147/S1126	7030217	PBT-GF30-V0	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TNER-Q80-H1147	7030211	PBT-GF30-V0	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP69K	•
TNLR-Q80-H1147/S1126	7030219	PBT-GF30-V0	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP69K	•
TNLR-Q80-H1147	7030230	PBT-GF30-V0	PBT-GF30-V0	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP69K	•
TN-S32XL-H1147	7030008	ABS	ABS	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TNLR-Q350-H1147	7030220	PET	PET	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TNLR-Q80L400-H1147¹⁾	7030204	PET	PET	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•
TNLR-Q80L400-H1147L¹⁾	7030234	PET	PET	M12 x 1 (C012)	55 Hz (1 mm)	30 g (11 ms)	IP67	•

Sensortechnik/Sensors/
Détecteurs

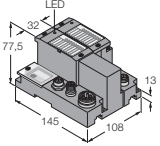
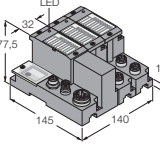
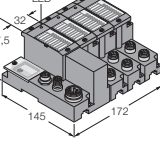
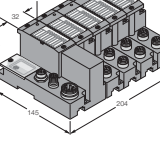
BL ident[®] – Interfaces (Sets) IP67
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BL ident[®] – Interfaces (Kits) IP67

Abmessungen Dimensions Dimensions [mm]	Schutzart Degree of protection Degré de protection	Interfaces (Sets) Interfaces (sets) Interfaces (Kits)	Anzahl der Kanäle Number of channels Nombre de canaux	Programmierbar Programmable Programmable	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	IP67	PROFIBUS-DPV1	2	–	TI-BL67-DPV1-2	1545028
	IP67	PROFINET IO	2	–	TI-BL67-EPN-2	1545040
	IP67	DeviceNet™	2	–	TI-BL67-DN-2	1545032
	IP67	EtherNet/IP	2	–	TI-BL67-EIP-2	1545044
	IP67	PROFIBUS-DP	2	•	TI-BL67-PG-DP-2	1545061
	IP67	Ethernet Modbus TCP	2	•	TI-BL67-PG-EN-2	1545065
	IP67	EtherNet/IP	2	•	TI-BL67-PG-EIP-2	1545068
	IP67	PROFIBUS-DPV1	4	–	TI-BL67-DPV1-4	1545029
	IP67	PROFINET IO	4	–	TI-BL67-EPN-4	1545041
	IP67	DeviceNet™	4	–	TI-BL67-DN-4	1545033
	IP67	EtherNet/IP	4	–	TI-BL67-EIP-4	1545045
	IP67	PROFIBUS-DP	4	•	TI-BL67-PG-DP-4	1545062
	IP67	Ethernet Modbus TCP	4	•	TI-BL67-PG-EN-4	1545066
	IP67	EtherNet/IP	4	•	TI-BL67-PG-EIP-4	1545069
	IP67	PROFIBUS-DPV1	6	–	TI-BL67-DPV1-6	1545030
	IP67	PROFINET IO	6	–	TI-BL67-EPN-6	1545042
	IP67	DeviceNet™	6	–	TI-BL67-DN-6	1545034
	IP67	EtherNet/IP	6	–	TI-BL67-EIP-6	1545046
	IP67	PROFIBUS-DP	6	•	TI-BL67-PG-DP-6	1545063
	IP67	Ethernet Modbus TCP	6	•	TI-BL67-PG-EN-6	1545067
	IP67	EtherNet/IP	6	•	TI-BL67-PG-EIP-6	1545070
	IP67	PROFIBUS-DPV1	8	–	TI-BL67-DPV1-8	1545031
	IP67	PROFINET IO	8	–	TI-BL67-EPN-8	1545042
	IP67	DeviceNet™	8	–	TI-BL67-DN-8	1545035
	IP67	EtherNet/IP	8	–	TI-BL67-EIP-8	1545047
	IP67	PROFIBUS-DP	8	•	TI-BL67-PG-DP-8	1545064
	IP67	Ethernet Modbus TCP	8	•	TI-BL67-PG-EN-8	1545068
	IP67	EtherNet/IP	8	•	TI-BL67-PG-EIP-8	1545071

BL ident® – Interfaces (Sets) IP67 für einfache I/O-Kommunikation
BL ident® – Interfaces (Sets) IP67 for simple I/O communication
BL ident® – Interfaces (Kits) IP67 pour une communication E/S simple

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Abmessungen Dimensions Dimensions [mm]	Schutzart Degree of protection Degré de protection	Interfaces (Sets) Interfaces (sets) Interfaces (Kits)	Anzahl der Kanäle Number of channels Nombre de canaux	Programmierbar Programmable Programmable	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	IP67	PROFIBUS-DPV1	2	–	TI-BL67-DPV1-S-2	1545106
	IP67	PROFINET IO	2	–	TI-BL67-EPN-S-2	1545110
	IP67	DeviceNet™	2	–	TI-BL67-DN-S-2	1545114
	IP67	EtherNet/IP	2	–	TI-BL67-EIP-S-2	1545118
	IP67	PROFIBUS-DP	2	•	TI-BL67-PG-DP-S-2	1545094
	IP67	Ethernet Modbus TCP	2	•	TI-BL67-PG-EN-S-2	1545098
	IP67	EtherNet/IP	2	•	TI-BL67-PG-EIP-S-2	1545102
	IP67	PROFIBUS-DPV1	4	–	TI-BL67-DPV1-S-4	1545107
	IP67	PROFINET IO	4	–	TI-BL67-EPN-S-4	1545111
	IP67	DeviceNet™	4	–	TI-BL67-DN-S-4	1545115
	IP67	EtherNet/IP	4	–	TI-BL67-EIP-S-4	1545119
	IP67	PROFIBUS-DP	4	•	TI-BL67-PG-DP-S-4	1545095
	IP67	Ethernet Modbus TCP	4	•	TI-BL67-PG-EN-S-4	1545099
	IP67	EtherNet/IP	4	•	TI-BL67-PG-EIP-S-4	1545103
	IP67	PROFIBUS-DPV1	6	–	TI-BL67-DPV1-S-6	1545108
	IP67	PROFINET IO	6	–	TI-BL67-EPN-S-6	1545112
	IP67	DeviceNet™	6	–	TI-BL67-DN-S-6	1545116
	IP67	EtherNet/IP	6	–	TI-BL67-EIP-S-6	1545120
	IP67	PROFIBUS-DP	6	•	TI-BL67-PG-DP-S-6	1545096
	IP67	Ethernet Modbus TCP	6	•	TI-BL67-PG-EN-S-6	1545100
	IP67	EtherNet/IP	6	•	TI-BL67-PG-EIP-S-6	1545104
	IP67	PROFIBUS-DPV1	8	–	TI-BL67-DPV1-S-8	1545109
	IP67	PROFINET IO	8	–	TI-BL67-EPN-S-8	1545113
	IP67	DeviceNet™	8	–	TI-BL67-DN-S-8	1545117
	IP67	EtherNet/IP	8	–	TI-BL67-EIP-S-8	1545121
	IP67	PROFIBUS-DP	8	•	TI-BL67-PG-DP-S-8	1545097
	IP67	Ethernet Modbus TCP	8	•	TI-BL67-PG-EN-S-8	1545101
	IP67	EtherNet/IP	8	•	TI-BL67-PG-EIP-S-8	1545105

Sensortechnik/Sensors/
Détecteurs

BL ident[®] – Interfaces (Sets) IP20

BL ident[®] – Interfaces (Sets) IP20

BL ident[®] – Interfaces (Kits) IP20

Abmessungen	Schutzart	Interfaces (Sets)	Anzahl der Kanäle	Programmierbar	Typenbezeichnung	Ident-Nr.
Dimensions	Degree of protection	Interfaces (sets)	Number of channels	Programmable	Type	Ident no.
Dimensions [mm]	Degré de protection	Interfaces (Kits)	Nombre de canaux	Programmable	Type	No. d'ident.
	IP20	PROFIBUS-DPV1	2	–	TI-BL20-DPV1-2	1545004
	IP20	DeviceNet™	2	–	TI-BL20-DN-2	1545008
	IP20	EtherNet/IP	2	–	TI-BL20-EIP-2	1545020
	IP20	Ethernet Modbus TCP	2	•	TI-BL20-PG-EN-2	1545053
	IP20	EtherNet/IP	2	•	TI-BL20-PG-EIP-2	1545057
	IP20	PROFIBUS-DPV1	4	–	TI-BL20-DPV1-4	1545005
	IP20	DeviceNet™	4	–	TI-BL20-DN-4	1545009
	IP20	EtherNet/IP	4	–	TI-BL20-EIP-4	1545021
	IP20	Ethernet Modbus TCP	4	•	TI-BL20-PG-EN-4	1545054
	IP20	EtherNet/IP	4	•	TI-BL20-PG-EIP-4	1545058
	IP20	PROFIBUS-DPV1	6	–	TI-BL20-DPV1-6	1545006
	IP20	DeviceNet™	6	–	TI-BL20-DN-6	1545010
	IP20	EtherNet/IP	6	–	TI-BL20-EIP-6	1545023
	IP20	Ethernet Modbus TCP	6	•	TI-BL20-PG-EN-6	1545055
	IP20	EtherNet/IP	6	•	TI-BL20-PG-EIP-6	1545059
	IP20	PROFIBUS-DPV1	8	–	TI-BL20-DPV1-8	1545007
	IP20	DeviceNet™	8	–	TI-BL20-DN-8	1545011
	IP20	EtherNet/IP	8	–	TI-BL20-EIP-8	1545024
	IP20	Ethernet Modbus TCP	8	•	TI-BL20-PG-EN-8	1545056
	IP20	EtherNet/IP	8	•	TI-BL20-PG-EIP-8	1545060

BL ident[®] – Interfaces (Sets) IP20 für einfache I/O-Kommunikation
BL ident[®] – Interfaces (Sets) IP20 for simple I/O communication
BL ident[®] – Interfaces (Kits) IP20 pour une communication E/S simple

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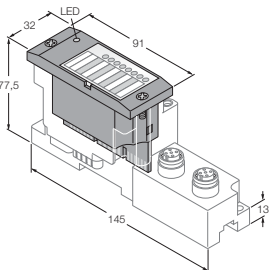
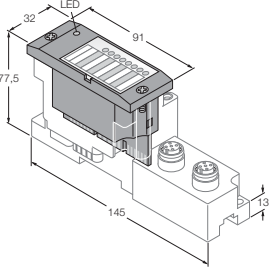
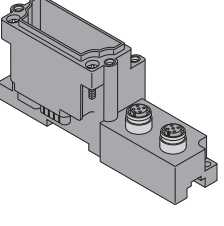
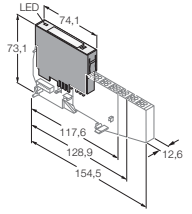
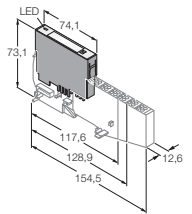
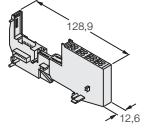
Abmessungen Dimensions Dimensions [mm]	Schutzart Degree of protection Degré de protection	Interfaces (Sets) Interfaces (sets) Interfaces (Kits)	Anzahl der Kanäle Number of channels Nombre de canaux	Programmierbar Programmable Programmable	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	IP20	PROFIBUS-DPV1	2	–	TI-BL20-DPV1-S-2	1545074
	IP20	DeviceNet™	2	–	TI-BL20-DN-S-2	1545078
	IP20	EtherNet/IP	2	–	TI-BL20-EIP-S-2	1545082
	IP20	Ethernet Modbus TCP	2	•	TI-BL20-PG-EN-S-2	1545086
	IP20	EtherNet/IP	2	•	TI-BL20-PG-EIP-S-2	1545090
	IP20	PROFIBUS-DPV1	4	–	TI-BL20-DPV1-S-4	1545075
	IP20	DeviceNet™	4	–	TI-BL20-DN-S-4	1545079
	IP20	EtherNet/IP	4	–	TI-BL20-EIP-S-4	1545083
	IP20	Ethernet Modbus TCP	4	•	TI-BL20-PG-EN-S-4	1545087
	IP20	EtherNet/IP	4	•	TI-BL20-PG-EIP-S-4	1545091
	IP20	PROFIBUS-DPV1	6	–	TI-BL20-DPV1-S-6	1545076
	IP20	DeviceNet™	6	–	TI-BL20-DN-S-6	1545080
	IP20	EtherNet/IP	6	–	TI-BL20-EIP-S-6	1545084
	IP20	Ethernet Modbus TCP	6	•	TI-BL20-PG-EN-S-6	1545088
	IP20	EtherNet/IP	6	•	TI-BL20-PG-EIP-S-6	1545092
	IP20	PROFIBUS-DPV1	8	–	TI-BL20-DPV1-S-8	1545077
	IP20	DeviceNet™	8	–	TI-BL20-DN-S-8	1545081
	IP20	EtherNet/IP	8	–	TI-BL20-EIP-S-8	1545085
	IP20	Ethernet Modbus TCP	8	•	TI-BL20-PG-EN-S-8	1545089
	IP20	EtherNet/IP	8	•	TI-BL20-PG-EIP-S-8	1545093

Sensortechnik/Sensors/
Détecteurs

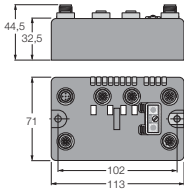
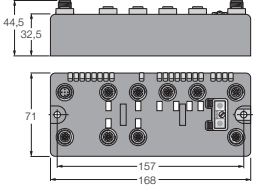
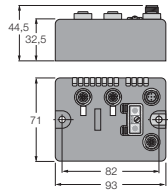
BL ident® – Erweiterungen

BL ident® – Extensions

BL ident® – Extensions

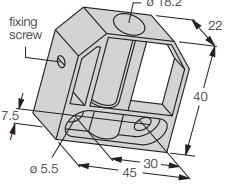
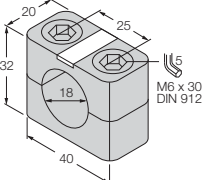
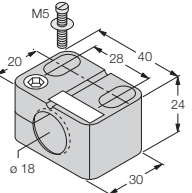
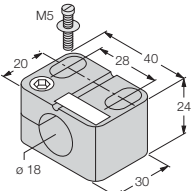
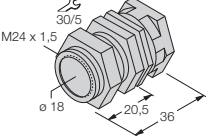
Abmessungen Dimensions Dimensions [mm]	Schutzart Degree of protection Degré de protection	Module Modules Modules	Anzahl der Kanäle Number of channels Nombre des canaux	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	IP67	RFID-Elektronikmodul (BL67) für/ RFID electronicmodule (BL67) for/ Mod. d'électronique RFID (BL67) pour PROFIBUS-DPV1, DeviceNet™ Ethernet Modbus TCP, EtherNet/IP, PROFINET IO	2	BL67-2RFID-A	6827225
	IP67	RFID-Elektronikmodul (BL67) für einfache I/O-Kommunikation/ RFID electronicmodule (BL67) for simple I/O-Kommunikation/ Mod. d'électronique RFID (BL67) pour une communication E/S simple	2	BL67-2RFID-S	6827305
	IP67	BL67 Basismodul/ BL67 base module/ BL67 module de base	2	BL67-B-2M12	6827186
	IP20	RFID-Elektronikmodul (BL20) für/ RFID electronicmodule (BL20) for/ Mod. d'électronique RFID (BL20) pour PROFIBUS-DPV1, DeviceNet™ Ethernet Modbus TCP, EtherNet/IP	2	BL20-2RFID-A	6827233
	IP20	RFID-Elektronikmodul (BL67) für einfache I/O-Kommunikation/ RFID electronicmodule (BL67) for simple I/O-Kommunikation/ Mod. d'électronique RFID (BL67) pour une communication E/S simple	2	BL20-2RFID-S	6827306
	IP20	BL20 Basismodul/ BL20 base module/ BL20 module de base	2	BL20-S4T-SBBS	6827046


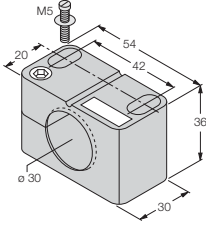
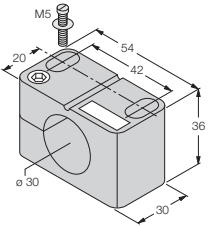
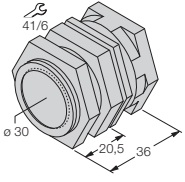

BL ident® – Kompakte Feldbusstationen IP67
BL ident® – Compact fieldbus stations in IP67
BL ident® – Stations compactes pour bus de terrain IP67

Abmessungen Dimensions Dimensions [mm]	Schutzart Degree of protection Degré de protection	Feldbus Fieldbus Bus de terrain	Anzahl der Kanäle Number of channels Nombre de canaux	mit I/O-Port with I/O port avec port E/S	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	IP67	PROFIBUS-DP (BL compact)	2	•	BLCDP-2M12MT-2RFID-A Advanced RFID Interface	6811166
	IP67	PROFIBUS-DP (BL compact)	2	•	BLCDP-2M12MT-2RFID-S Simple RFID Interface	6811177
	IP67	PROFIBUS-DP (BL compact)	2	•	BLCDP-6M12LT-2RFID-S-8XSG-PD Simple RFID Interface	6811179
	IP67	DeviceNet™ (BL compact)	2	•	BLCDN-2M12S-2RFID-S Simple RFID Interface	6811002

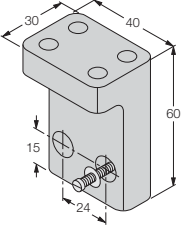
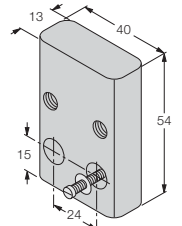
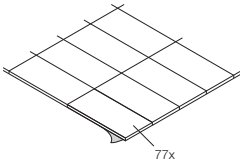
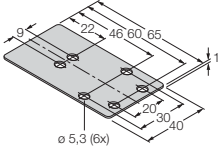
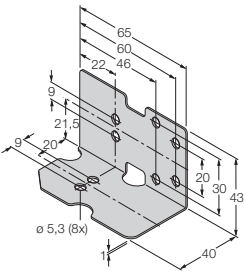
Sensortechnik/Sensors/
Détecteurs

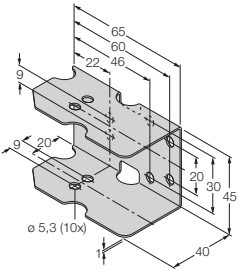
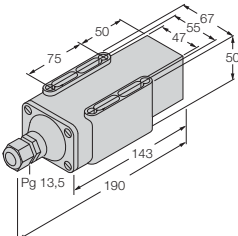

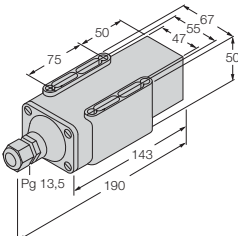
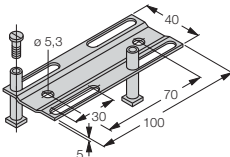
BL ident[®] – Zubehör für Schreib-Leseköpfe
BL ident[®] – Accessories for read-write heads
BL ident[®] – Accessoires pour têtes d'écriture/lecture

Abmessungen Dimensions Dimensions [m]	Beschreibung Description Description	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	Befestigungsschelle für Schreib-Lese-Köpfe Ø 18 mm/ Mounting clip for read-write heads Ø 18 mm/ Bride de fixation pour têtes d'écriture/lecture Ø 18 mm	BS18	69471
	Befestigungsschelle für Schreib-Lese-Köpfe Ø 18 mm/ Mounting clip for read-write heads Ø 18 mm/ Bride de fixation pour têtes d'écriture/lecture Ø 18 mm	BSN18	69472
	Befestigungsschelle mit Anschlag für Schreib-Lese-Köpfe Ø 18 mm/ Mounting clip with limit stop for read-write heads Ø 18 mm/ Bride de fixation avec butée pour têtes d'écriture/lecture Ø 18 mm	BST-18B	6947214
	Befestigungsschelle ohne Anschlag für Schreib-Lese-Köpfe Ø 18 mm/ Mounting clip without limit stop for read-write heads Ø 18 mm/ Bride de fixation sans butée pour têtes d'écriture/lecture Ø 18 mm	BST-18N	6947215
	Schnellmontagehalterung für Schreib-Lese-Köpfe Ø 18 mm/ Quick mounting for read-write heads Ø 18 mm/ Bride de fixation pour montage rapide pour têtes d'écriture/ lecture Ø 18 mm	QM-18	6945102

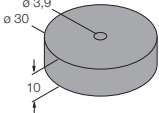
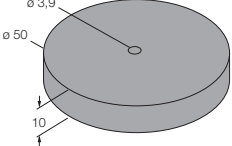
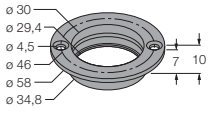
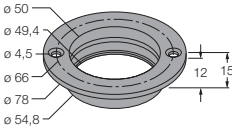
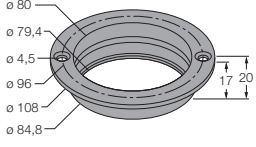
Abmessungen Dimensions Dimensions [m]	Beschreibung Description Description	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	<p>Teflonschutzkappe für Schreib-Lese-Köpfe Ø 18 mm/ Teflon cover cap for read-write heads Ø 18 mm/ Capuchon de protection téflonisé pour têtes d'écriture/lecture Ø 18 mm</p>	SKN/M18	69663
	<p>Befestigungsschelle mit Anschlag für Schreib-Lese-Köpfe Ø 30 mm/ Mounting clip with limit stop for read-write heads Ø 30 mm/ Bride de fixation avec butée pour têtes d'écriture/lecture Ø 30 mm</p>	BST-30B	6699210
	<p>Befestigungsschelle ohne Anschlag für Schreib-Lese-Köpfe Ø 30 mm/ Mounting clip without limit stop for read-write heads Ø 30 mm/ Bride de fixation sans butée pour têtes d'écriture/lecture 18 mm Ø 30 mm</p>	BST-30N	6699203
	<p>Schnellmontagehalterung für Schreib-Lese-Köpfe Ø 30 mm/ Quick mounting for read-write heads Ø 30 mm/ Bride de fixation pour montage rapide pour têtes d'écriture/lecture Ø 30 mm</p>	QM-30	8035244
	<p>Teflonschutzkappe für Schreib-Lese-Köpfe Ø 30 mm/ Teflon cover cap for read-write heads Ø 30 mm/ Capuchon de protection téflonisé pour têtes d'écriture/lecture Ø 30 mm</p>	SKN/M30	8036404

BL ident[®] – Zubehör für Schreib-Leseköpfe
BL ident[®] – Accessories for read-write heads
BL ident[®] – Accessoires pour têtes d'écriture/lecture

Abmessungen Dimensions Dimensions [m]	Beschreibung Description Description	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	Montagehilfe für BST-Befestigungsschellen/ Mounting aid for BST mounting clips/ Accessoire de montage pour brides de fixation BST	BST-UH	8035245
	Montagehilfe für BST-Befestigungsschellen/ Mounting aid for BST mounting clips/ Accessoire de montage pour brides de fixation BST	BST-UV	6904613
	Beschriftungsschilder für BST-Befestigungsschellen/ Inscription labels for BST mounting clips/ Plaquettes d'identification pour brides de fixation BST	BST-BS	6699210
	Schutzhalterung für Schreib-Lese-Kopf CK40 "einseitig"/ Protective mounting for read-write head CK40 "single-sided"/ Bride de support pour tête d'écriture/lecture CK40 "droit"	MF-CK40-1S	6699203
	Schutzhalterung für Schreib-Lese-Kopf CK40 "Winkel"/ Protective mounting for read-write head CK40 "angled"/ Bride de support pour tête d'écriture/lecture CK40 "coudé"	MF-CK40-2S	8035244

Abmessungen Dimensions Dimensions [m]	Beschreibung Description Description	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	Schutzhalterung für Schreib-Lese-Kopf CK40 "U-Profil"/ Protective mounting for read-write head CK40 "U-shaped"/ Schutzhalterung für Schreib-Lese-Kopf CK40 "U-Profil"	MF-CK40-3S	8036404
	Schutzgehäuse für Schreib-Lese-Kopf CK40/ Protective mounting for read-write head CK40/ Boîtier de protection pour tête d'écriture/lecture CK40	SG40	8035245
	Teflonschutzkappe für Schreib-Lese-Kopf CK40/ Teflon cover cap for read-write head CK40/ Capuchon de protection téflonisé pour tête d'écriture/lecture CK40	T-CK40-T-FC	6904613
	Temperaturbeständiges Schutzgehäuse für Schreib-Lese-Kopf CK40/ Temperature resistant protective mounting for read-write head CK40/ Boîtier de protection résistant à des températures pour tête d'écriture/lecture CK40	SG40/2	6699210
	Justierschiene für Schreib-Lese-Kopf CK40/ Adjustable rail for read-write head CK40/ Rail de réglage pour tête d'écriture/lecture CK40	FS 025/037	6699203

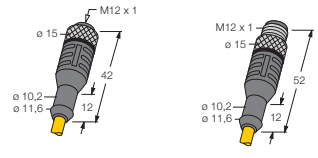
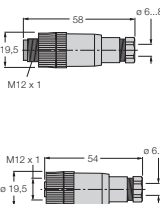
BL ident[®] – Zubehör für Datenträger
BL ident[®] – Accessories for data carrier
BL ident[®] – Accessoires pour étiquette électronique

Abmessungen Dimensions Dimensions [m]	Beschreibung Description Description	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	Distanzscheibe, Kunststoff, für Datenträger Ø 30 mm/ Spacer, plastic, for data carrier Ø 30 mm/ Rondelle d'écartement, plastique, pour étiquette électronique Ø 30 mm	DS-R30	8035244
	Distanzscheibe, Kunststoff, für Datenträger Ø 50 mm/ Spacer, plastic, for data carrier Ø 50 mm/ Rondelle d'écartement, plastique, pour étiquette électronique Ø 50 mm	DS-R50	8036404
	Montageflansch für Datenträger TW-R30-M-*/ Mounting flange for data carrier TW-R30-M-*/ Bride de montage pour étiquette électronique TW-R30-M-*	MF-R30	8035245
	Montageflansch für Datenträger TW-R50-M-*/ Mounting flange for data carrier TW-R50-M-*/ Bride de montage pour étiquette électronique TW-R50-M-*	MF-R50	6904613
	Montageflansch für Datenträger TW-R80-M-*/ Mounting flange for data carrier TW-R80-M-*/ Bride de montage pour étiquette électronique TW-R80-M-*	MF-R80	6699210

BL ident® – Verbindungsleitungen/Steckverbinder
BL ident® – Connection cables/connectors
BL ident® – Câbles de raccordement/connecteurs

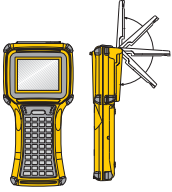
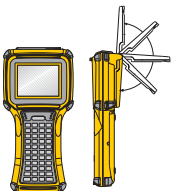
TURCK

Industrial
Automation

Abmessungen Dimensions Dimensions [m]	Länge Length Longueur [m]	Beschreibung Description Description	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	M12 x 1	Verbindungsleitung Schreib-Lese-Kopf zu Interface/ Connection cable read-write head to Interface/ Câble de raccordement tête d'écriture/lecture à l'interface	RK4.5T-0,3-RS4.5T/S2500 RK4.5T-2-RS4.5T/S2500 RK4.5T-5-RS4.5T/S2500 RK4.5T-10-RS4.5T/S2500 RK4.5T-25-RS4.5T/S2500 RK4.5T-50-RS4.5T/S2500	6699210 6699200 6699201 6699202 6699211 8035246
	M12 x 1	Verbindungsleitung Schreib-Lese-Kopf zu Interface/ Connection cable read-write head to Interface/ Câble de raccordement tête d'écriture/lecture à l'interface	WK4.5T-2-RS4.5T/S2500 WK4.5T-5-RS4.5T/S2500 WK4.5T-10-RS4.5T/S2500 WK4.5T-25-RS4.5T/S2500 WK4.5T-50-RS4.5T/S2500	6699203 6699204 6699205 6638425 6638426
	M12 x 1	Verbindungsleitung Schreib-Lese-Kopf zu Interface/ Connection cable read-write head to Interface/ Câble de raccordement tête d'écriture/lecture à l'interface	RK4.5T-2/S2500 RK4.5T-5/S2500 RK4.5T-10/S2500 RK4.5T-25/S2500 RK4.5T-50/S2500	8035244 6699206 6699207 6638421 6638422
	M12 x 1	Verbindungsleitung Schreib-Lese-kopf zu Interface für Lebensmittelbereich/Connection cable read-write-head to interface for Food & Beverage/Câble de raccordement tête d'écriture/lecture à l'interf. pour Food & Beverage	FB-RK4.5T-5/S2502 FB-RK4.5T-10/S2502 FB-RK4.5T-25/S2502	8036404 8036405 8037011
	M12 x 1	Verbindungsleitung Schreib-Lese-Kopf zu Interface/ Connection cable read-write head to Interface/ Câble de raccordement tête d'écriture/lecture à l'interface	WK4.5T-2/S2500 WK4.5T-5/S2500 WK4.5T-10/S2500 WK4.5T-25/S2500 WK4.5T-50/S2500	8035245 6699208 6699209 6638423 6638424
		M12 x 1	Konfektionierb. Steckverbinder/ Field-wireable connector/ Connecteur confectionnable	BS8151-0/9
M12 x 1			B8151-0/9	6904604
	100	Kabel-Meterware/bulk cable/ câbles en pièces	Kabel-Blident-100m	8036048

Sensortechnik/Sensors/
Détecteurs

BL ident[®] – Handheld/PDA mit Zubehör**BL ident[®] – Handheld/PDA with accessories****BL ident[®] – Console de paramétrage/PDA avec accessoires**

Abmessungen Dimensions Dimensions [m]	Beschreibung Description Description	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
	Handheld mit RS232/ Handheld with RS232/ Console de paramétrage avec RS232	PD-IDENT	1542331
	Handheld mit WLAN/ Handheld with WLAN/ Console de paramétrage avec WLAN	PD-IDENT-WLAN	1542340
	Handheld mit: RS232, WLAN, Barcode, Kamera/ Handheld with: RS232, WLAN, barcode, camera/ Console de paramétrage avec: RS232, WLAN, code à barres, caméra	PD-IDENT-RWBCS	1542342
ohne Abbildung/ without figure/ sans figure	PDA inkl. Dockingstation/ PDA incl. Docking station/ PDA y compris station docking	PDA-IDENT	1542344
ohne Abbildung/ without figure/ sans figure	Antenne als CF-Card für PDA/ Antenna as CF-Card for PDA/ Antenne comme carte CF pour PDA	PDA-IDENT-IA	1542345
ohne Abbildung/ without figure/ sans figure	Externe Antenne für PDA mit 0,5 m Kabel/ External antenna for PDA with 0.5 m cable/ Antenne externe pour PDA avec 0,5 m de câble	PDA-IDENT-EA	1542346

Abmessungen Dimensions Dimensions [m]	Beschreibung Description Description	Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.
ohne Abbildung/ without figure/ sans figure	Display-Schutzfolie (25 Stück) für Handheld PD-Ident/ Display protective file (25 pieces) for Handheld PD-Ident/ Feuille protectrice pour afficheur (25 pièces) pour console de paramétrage PD-Ident	PD-Ident-PF	1542336
ohne Abbildung/ without figure/ sans figure	Akku-Ladegerät für Handheld PD-Ident/ Rechargeable battery charger for Handheld PD-Ident/ Chargeur d'accu pour console de paramétrage PD-Ident	PD-Ident-BC	1542335
ohne Abbildung/ without figure/ sans figure	Tragetasche für Handheld PD-Ident/ Pouch holder for Handheld PD-Ident/ Sachet portatif pour console de paramétrage PD-Ident	PD-Ident-CB	1542334
ohne Abbildung/ without figure/ sans figure	Dockingstation, inkl. Netzteil, RS232-Kabel für PD-Ident/ Docking station, incl. power supply, RS232-cable for PD-Ident/ Station docking, alimentation y compris, câble RS232 pour PD-Ident	PD-Ident-DS	1542333
ohne Abbildung/ without figure/ sans figure	Ersatzakku für Handheld PD-Ident/ Spare rechargeable battery for Handheld PD-Ident/ Accu de rechange pour console de paramétrage PD-Ident	PD-Ident-RB	1542337
ohne Abbildung/ without figure/ sans figure	Ersatzstifte (25 Stück) für Handheld PD-Ident/ Spare pins (25 pieces) for Handheld PD-Ident/ Broches de réserve (25 pièces) pour console de paramétrage PD-Ident	PD-Ident-RS	1542338
ohne Abbildung/ without figure/ sans figure	CD mit Dokumentation und Funktionsbausteinen/ CD with documentation and function blocks/ CD avec documentation et modules fonctionnelles	Blident-CD	1545052

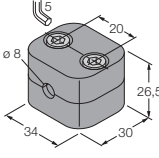
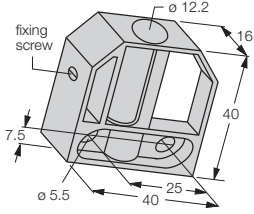
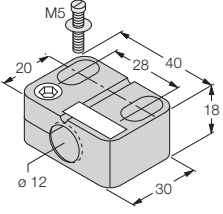
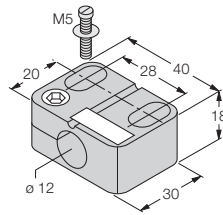
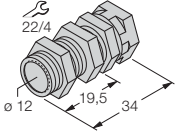
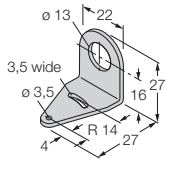
Sensoren – Zubehör
Sensors – Accessories
Détecteurs – Accessoires

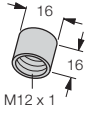
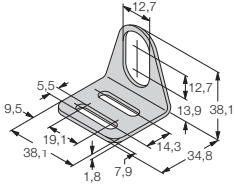
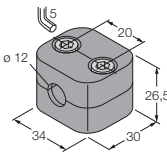
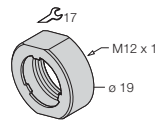
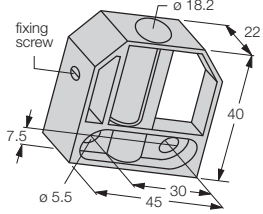
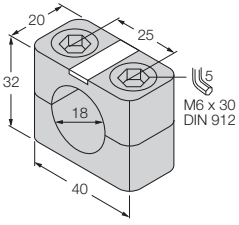
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux (☞ 852)	Für Sensortypen For sensor types Pour types de détecteur
	BS540	69475	AL	Glattrohr 4 mm Smooth barrel 4 mm Tube lisse 4 mm
	MBS40	69477	AL	Glattrohr 4 mm Smooth barrel 4 mm Tube lisse 4 mm
	BS865	69476	AL	Glattrohr 6,5 mm Smooth barrel 6,5 mm Tube lisse 6,5 mm
	MBS65	69478	AL	Glattrohr 6,5 mm Smooth barrel 6,5 mm Tube lisse 6,5 mm
	BS11	69462	PBT	Glattrohr 11 mm Smooth barrel 11 mm Tube lisse 11 mm
	BS20	69464	PBT	Glattrohr 20 mm Smooth barrel 20 mm Tube lisse 20 mm

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux (☞ 852)	Für Sensortypen For sensor types Pour types de détecteur
	BS34.1	6946010	PBT-V0	Glattrohr 34 mm Smooth barrel 34 mm Tube lisse 34 mm
	BS40	69466	PBT	Glattrohr 40 mm Smooth barrel 40 mm Tube lisse 40 mm
	BST-08B	6947210	PA6	Gewinderohr M8 Threaded barrel M8 Tube fileté M8
	BST-08N	6947211	PA6	Gewinderohr M8 Threaded barrel M8 Tube fileté M8
	QM-08	6945100	CuZn	Gewinderohr M8 Threaded barrel M8 Tube fileté M8
	MW-08	6945008	VA	Gewinderohr M8 Threaded barrel M8 Tube fileté M8

Sensortechnik/Sensors/
Détecteurs

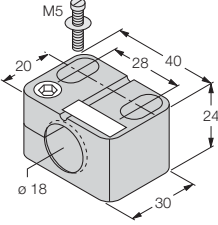
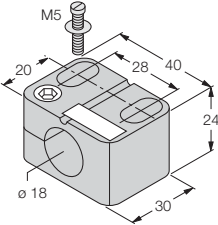
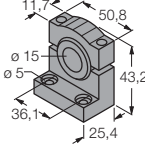
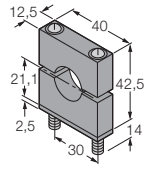
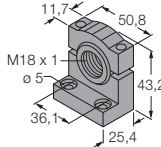

Sensoren – Zubehör
Sensors – Accessories
Détecteurs – Accessoires

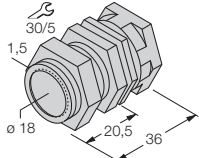
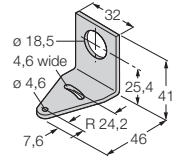
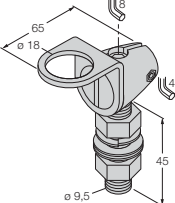
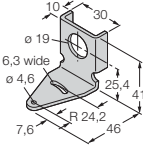
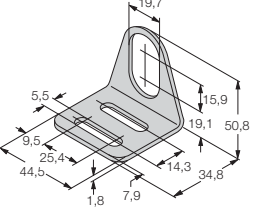
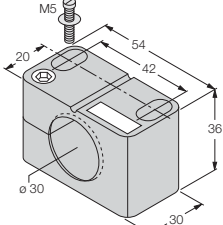
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux (EN 852)	Für Sensortypen For sensor types Pour types de détecteur
	BSS-08	6901322	PP	Gewinderohr M8 Threaded barrel M8 Tube fileté M8
	BS12	69470	PBT	Gewinderohr M12 Threaded barrel M12 Tube fileté M12
	BST-12B	6947212	PA6	Gewinderohr M12 Threaded barrel M12 Tube fileté M12
	BST-12N	6947213	PA6	Gewinderohr M12 Threaded barrel M12 Tube fileté M12
	QM-12	6945101	CuZn	Gewinderohr M12 Threaded barrel M12 Tube fileté M12
	QMT-12	6945106	CuZn	Gewinderohr M12 Threaded barrel M12 Tube fileté M12
	SMBQS12PD	3059606	1.4401 (AISI 316)	Gewinderohr M12 Threaded barrel M12 Tube fileté M12

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux (ISO 852)	Für Sensortypen For sensor types Pour types de détecteur
 <p>M12 x 1</p>	SKN/M12	69662	Teflon	Gewinderohr M12 Threaded barrel M12 Tube fileté M12
	MW-12	6945003	VA	Gewinderohr M12 Threaded barrel M12 Tube fileté M12
	BSS-12	6901321	PP	Gewinderohr M12 Threaded barrel M12 Tube fileté M12
	PN-M12	6905309	VA	Gewinderohr M12 Threaded barrel M12 Tube fileté M12
	BS18	69471	PA6	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	BSN18	69472	PBT	Gewinderohr M18 Threaded barrel M18 Tube fileté M18

Sensortechnik/Sensors/
Détecteurs

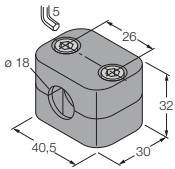
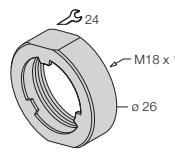
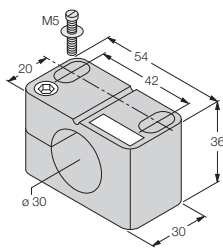
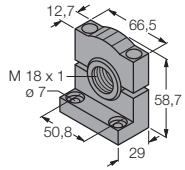
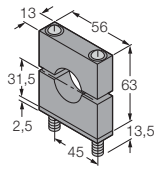
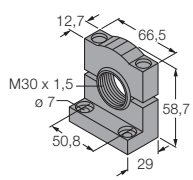
Sensoren – Zubehör
Sensors – Accessories
Détecteurs – Accessoires

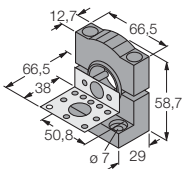
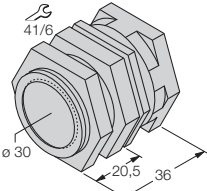
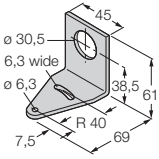
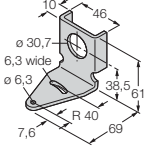
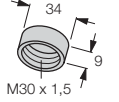
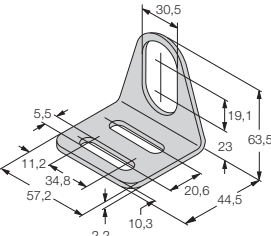
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux (EN 852)	Für Sensortypen For sensor types Pour types de détecteur
	BST-18B	6947214	PA6	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	BST-18N	6947215	PA6	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	SMB1815SF	3053279	PBT	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	SMB18C	3470000	PBT	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	SMB18SF	3052519	PBT	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	SKN/M18	69663	Teflon	Gewinderohr M18 Threaded barrel M18 Tube fileté M18

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux (ISO 852)	Für Sensortypen For sensor types Pour types de détecteur
	QM-18	6945102	CuZn	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	QMT-18	6945104	CuZn	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	SMB18A	3470200	1.4401 (AISI 316)	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	SMB18FA	3074004	1.4401 (AISI 316)	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	SMB18Q	3470400	1.4401 (AISI 316)	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	MW-18	6945004	VA	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	BST-30B	6947216	PA6	Gewinderohr M30 Threaded barrel M30 Tube fileté M30

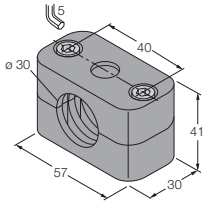
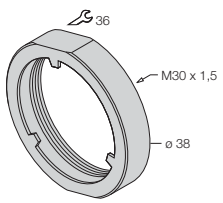
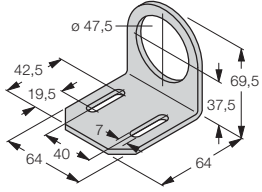
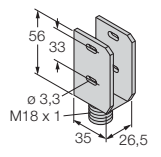
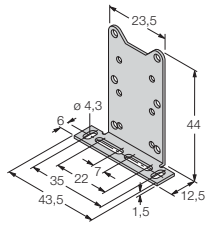
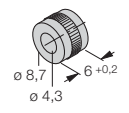
Sensortechnik/Sensors/
Détecteurs

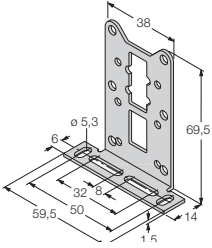
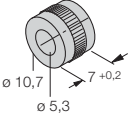
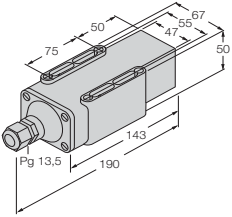
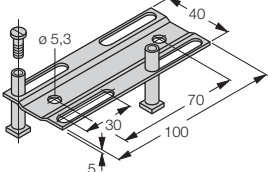
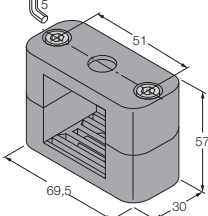
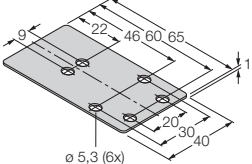
Sensoren – Zubehör
Sensors – Accessories
Détecteurs – Accessoires

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux (EN 852)	Für Sensortypen For sensor types Pour types de détecteur
	BSS-18	6901320	PP	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	PN-M18	6905310	VA	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	BST-30N	6947217	PA6	Gewinderohr M30 Threaded barrel M30 Tube fileté M30
	SMB3018SC	3053952	PBT	Gewinderohr M30 Threaded barrel M30 Tube fileté M30
	SMB30C	3470100	PBT	Gewinderohr M30 Threaded barrel M30 Tube fileté M30
	SMB30SC	3052521	PBT	Gewinderohr M30 Threaded barrel M30 Tube fileté M30

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux (ISO 852)	Für Sensortypen For sensor types Pour types de détecteur
	SMB30SK	3052523	PBT	Gewinderohr M30 Threaded barrel M30 Tube fileté M30
	QM-30	6945103	CuZn	Gewinderohr M30 Threaded barrel M30 Tube fileté M30
	QMT-30	6945105	CuZn	Gewinderohr M30 Threaded barrel M30 Tube fileté M30
	SMB30A	3470300	1.4401 (AISI 316)	Gewinderohr M30 Threaded barrel M30 Tube fileté M30
	SMB30Q	3470500	1.4401 (AISI 316)	Gewinderohr M30 Threaded barrel M30 Tube fileté M30
	SKN/M30	69664	Teflon	Gewinderohr M30 Threaded barrel M30 Tube fileté M30
	MW-30	6945005	VA	Gewinderohr M30 Threaded barrel M30 Tube fileté M30


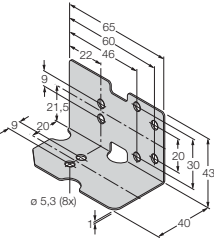
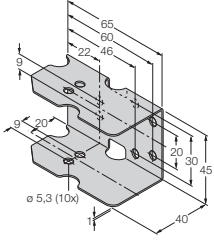
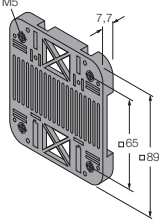
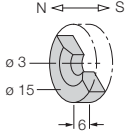
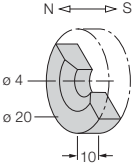
Sensoren – Zubehör
Sensors – Accessories
Détecteurs – Accessoires

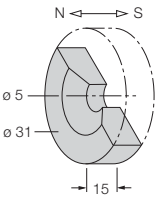
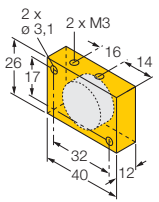
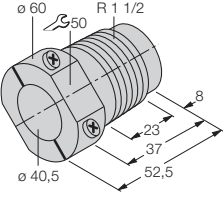
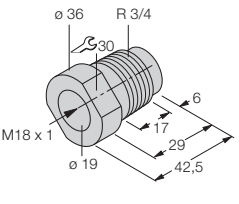
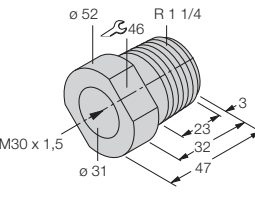
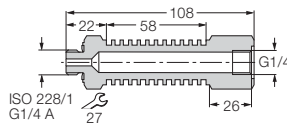
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux (EN 852)	Für Sensortypen For sensor types Pour types de détecteur
	BSS-30	6901319	PP	Gewinderohr M30 Threaded barrel M30 Tube fileté M30
	PN-M30	6905308	VA	Gewinderohr M30 Threaded barrel M30 Tube fileté M30
	MW47	69452		Gewinderohr PG36 Threaded barrel PG36 Tube fileté PG36
	SMBQS30Y	3002811	1.4401 (AISI 316)	Quader QS30 Rectangular QS30 Rectangle QS30
	MW-Q08/Q10	6945007	VA	Quader Q08, Q10 Rectangular Q08, Q10 Rectangle Q08, Q10
	MH-Q14	6950011	CuZn	Quader MH-Q14 Rectangular MH-Q14 Rectangle MH-Q14

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux (ISO 852)	Für Sensortypen For sensor types Pour types de détecteur
	MW-Q14/Q20	6945006	VA	Quader Q14, Q20 Rectangular Q14, Q20 Rectangle Q14, Q20
	MH-Q20	6950010	CuZn	Quader MH-Q20 Rectangular MH-Q20 Rectangle MH-Q20
	SG40	69500	PA	Quader SG40 Rectangular SG40 Rectangle SG40
	JS 025/037	69429	1.4301 (AISI 304)	Quader JS025/037 Rectangular JS025/037 Rectangle JS025/037
	BSS-CP40	6901318	PP	Quader CP40/CK40 Rectangular CP40/CK40 Rectangle CP40/CK40
	MF-CK40-1S	6900481		Quader CK40 Rectangular CK40 Rectangle CK40

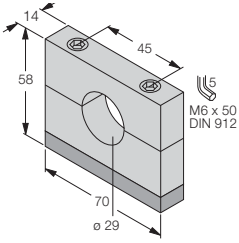
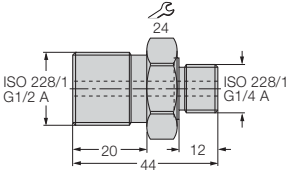
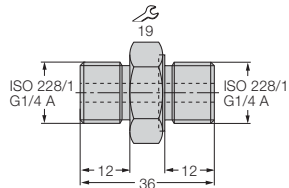
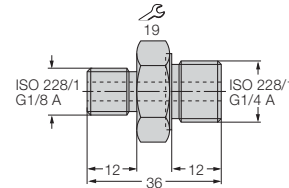
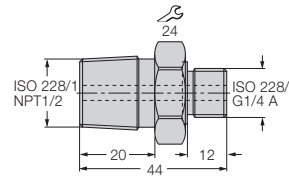
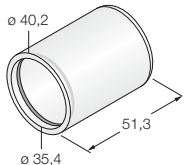
Sensortechnik/Sensors/
Détecteurs

Sensoren – Zubehör
Sensors – Accessories
Détecteurs – Accessoires

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux 	Für Sensortypen For sensor types Pour types de détecteur
	MF-CK40-2S	6900482		Quader CK40 Rectangular CK40 Rectangle CK40
	MF-CK40-3S	6900483		Quader CK40 Rectangular CK40 Rectangle CK40
	SMBDX80DIN	3077161	ABS	Quader CP80, DX80, K80, Q80 Rect. CP80, DX80, K80, Q80 Rect. CP80, DX80, K80, Q80
	DMR15-6-3	6900216		Betätigungsmagnet Actuation magnet Aimant de commande
	DMR20-10-4	6900214		Betätigungsmagnet Actuation magnet Aimant de commande

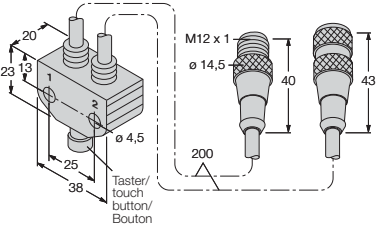
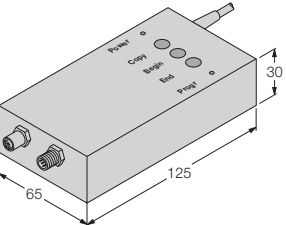
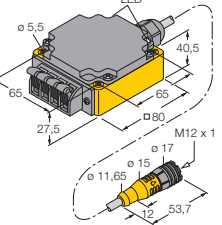
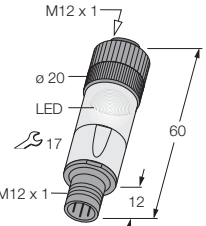
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux (ISO 852)	Für Sensortypen For sensor types Pour types de détecteur
	DMR31-15-5	6900215		Betätigungsmagnet Actuation magnet Aimant de commande
	DM-Q12	6900367		Betätigungsmagnet Actuation magnet Aimant de commande
	MAP-K40	6950014	PP	Glattrohr 40 mm Smooth barrel 40 mm Tube lisse 40 mm
	MAP-M18	6950012	PP	Gewinderohr M18 Threaded barrel M18 Tube fileté M18
	MAP-M30	6950013	PP	Gewinderohr M30 Threaded barrel M30 Tube fileté M30
	PCS-G1/4A4	6835015	1.4571 (AISI 316Ti)	Drucksensor Pressure sensor Détecteur de pression


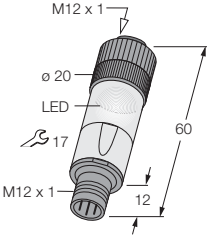
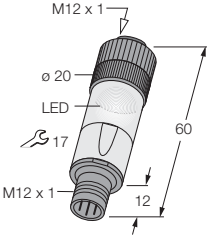
Sensoren – Zubehör
Sensors – Accessories
Détecteurs – Accessoires

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux (EN 852)	Für Sensortypen For sensor types Pour types de détecteur
	PCS-MB	6835031	AL	Drucksensor Serie PC-M... Pressure sensor series PC-M... Détect. de pression série PC-M
	PCV-G1/2A4	6835012	1.4571 (AISI 316Ti)	Drucksensor Serie PC-M... Pressure sensor series PC-M... Détect. de pression série PC-M
	PCV-G1/4A4	6835011	1.4571 (AISI 316Ti)	Drucksensor Serie PC-M... Pressure sensor series PC-M... Détect. de pression série PC-M
	PCV-G1/8A4	6835014	1.4571 (AISI 316Ti)	Drucksensor Serie PC-M... Pressure sensor series PC-M... Détect. de pression série PC-M
	PCV-N1/2A4	6835013	1.4571 (AISI 316Ti)	Drucksensor Serie PC-M... Pressure sensor series PC-M... Détect. de pression série PC-M
	PTS-COVER	6907410	PC	Drucksensor, Temperatursensor Serie PS... und TS... Pressure, temperature sensors series PS... and TS... Détect. de pression, température séries PS... and TS...

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux (EN 852)	Für Sensortypen For sensor types Pour types de détecteur
	LP-MS-T50-K	6900255	1.4404 (AISI 316L)	Glattrohr LPRE-T50... Smooth barrel LPRE-T50... Tube lisse LPRE-T50...
	LP-MS-T50-K-3GD	6900399	1.4404 (AISI 316L)	Glattrohr LPRE-T50... Smooth barrel LPRE-T50... Tube lisse LPRE-T50...
	LP-MS-T50-S	6900253	1.4404 (AISI 316L)	Glattrohr LPRE-T50... Smooth barrel LPRE-T50... Tube lisse LPRE-T50...
	LP-MS-T50-S-3GD	6900397	1.4404 (AISI 316L)	Glattrohr LPRE-T50... Smooth barrel LPRE-T50... Tube lisse LPRE-T50...
	LP-MZ-M30-SB	6900377	1.4301 (AISI 304)	LPRE-M30...
	SC-M8/3GD	6900515	PBTP	M8x1
	SC-M12/3GD	6900390	PBTP	M12x1

Sensoren – Zubehör
Sensors – Accessories
Détecteurs – Accessoires

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux (EN 852)	Für Sensortypen For sensor types Pour types de détecteur
	VB2-SP1	6999084		Programmieradapter für LPRE-M30... Programming adapter for LPRE-M30... Adaptateur de programmation pour LPRE-M30...
	VB2-SP2	6999083		Programmieradapter für RU..-M18K(S) Programming adapter for RU..-M18K(S) Adaptateur de programmation pour RU..-M18K(S)
	RU-PDi	1890000		Programmierinterface für RU-PDi Interface adapter for RU-PDi Interface de programmation pour RU-PDi
	TB3-CP80	6967112	PBT	Universelles Prüfgerät für PNP-, NPN- und NAMUR-Sensoren Universal test device for PNP-, NPN- and NAMUR sensors Testeur universel pour détec- teurs PNP, NPN et NAMUR
	SPF1-AP6X	6930037	PBT	Drehzahlwächter für Sensoren mit Standard-M12 x 1- Steckverbindern Rotational speed monitor for sensors with standard M12 x 1 connectors Contrôleur de rotation pour détecteurs avec connecteurs standard M12 x 1

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Typenbezeichnung Type Type	Ident.-Nr. Ident.-No. No. d'ident.	Werkstoffe Materials Matériaux 	Für Sensortypen For sensor types Pour types de détecteur
	SPN1-AP6-ARN6X	6930231	PBT	PNP auf NPN-Umsetzer für Sensoren mit Standard-M12 x 1-Steckverbindern PNP to NPN adapter for sensors with standard M12 x 1 connectors Convertisseur PNP en NPN pour détecteurs avec connecteurs standard M12 x 1
	SPT1-AP6X	6915091	PBT	Ein-/Ausschaltverzögerer für Sensoren mit Standard-M12 x 1-Steckverbindern Switch on/off delay for sensors with standard M12 x 1 connectors Temporisateur d'enclenchement/de déclenchement pour détecteurs avec connecteurs standard M12 x 1

Sensortechnik/Sensors/
Détecteurs



Interfacetechnik Interface Technology Technique d'Interface

**x = Vorzugstypen,
kurzfristig lieferbar**

TURCK-Vorzugstypen garantieren besonders kurze Lieferzeiten. In der Regel können Sie diese Produkte binnen 48 Stunden erhalten! Alle Vorzugstypen sind in diesem Katalog mit **x** gekennzeichnet.

**x = Preferred solution,
available on short notice**

TURCK preferred types guarantee particularly short delivery times. Generally these products are available within 48 hours! All preferred solutions are marked in this catalogue with an **x**.

**x = Types préférés,
livrables à bref délai**

Les types préférés de TURCK garantissent des délais de livraison particulièrement brefs. En règle générale, ces produits sont livrables dans les 48 heures! Tous les types préférés sont marqués par **x** dans ce catalogue.

	Schaltverstärker/Trennschaltverstärker Switching amplifier/isolating switching amplifier Amplificateur de signaux/Amplificateur-séparateur	488
	Drehzahlmesser/Drehzahlwächter Rotation speed monitors and motion controls Contrôleurs de rotation	508
	Analogsignaltrenner/Messverstärker Analogue data transmitters/Transducers Séparateurs de signaux analogiques/Amplificateurs de mesure	514
	Signalauswerter Logic controllers Identificateurs de signaux	542
	Ventilsteuerbausteine Valve control modules Appareils de commande pour électrovannes	548
	Koppelgeräte Couplers and interface devices Appareils de couplage	554
	Stromversorgungen Power supplies Appareils d'alimentation	564
	Niveauwächter Level controls Contrôleurs de niveaux	568
	Zubehör Accessories Accessoires	574
	Bauform multicart® – Geräte im 19“-Europakartenformat (Übersicht) Housing style multicart® – Devices in 19“ eurocard format (overview) Format multicart® – Appareils dans carte au format européen (aperçu)	578
Hinweise zum Explosionsschutz Guidelines on explosion protection Conseils de protection contre les explosions	824	

Schaltverstärker/ Trennschaltverstärker

Funktion

Schaltverstärker dienen zur galvanisch getrennten Übertragung binärer Signale von Sensoren und Kontakten. Trennschaltverstärker werden darüber hinaus eingesetzt zur Übertragung binärer Signale aus dem Ex-Bereich in den sicheren Bereich. Anschließbar sind Sensoren gemäß EN 60947-5-6 (NAMUR) sowie mechanische Kontakte.

Eingangskreisüberwachung

TURCK-Trennschaltverstärker des Typs IM1..., MK13... und MS13... verfügen über eine Eingangskreisüberwachung. Diese gestattet es, die Leitung zum Sensor oder Kontakt auf Drahtbruch und Kurzschluss zu überwachen. Sollen mechanische Kontakte angeschlossen werden, so ist unmittelbar am Kontakt die Widerstandsbeschaltung WM1 zu montieren (siehe Zubehör).

Wirkungsrichtung

Die meisten Trennschaltverstärker lassen eine Umschaltung der Wirkungsrichtung zu. Zu beachten ist, dass bei Ansteuerung mit induktiven NAMUR-Sensoren das Verhalten umgekehrt zu mechanischen Kontakten oder kapazitiven NAMUR-Sensoren ist. Durch Montage einer Drahtbrücke oder Umlegen eines Schalters in der Front lässt sich das Gerät zwischen Arbeits- und Ruhestromverhalten umschalten. Somit lassen sich beliebige Kombinationen aus bedämpftem/ unbedämpftem Sensor und aktiviertem/ inaktivem Ausgang wählen.

Eigensicherheit

Trennschaltverstärker müssen im sicheren Bereich montiert werden und verfügen über Stromkreise in der Zündschutzart „Eigensicherheit“. Anschließbar sind Sensoren und Kontakte aus den Bereichen der höchsten Explosionsgefahr, wie in Europa der Zone 0 oder in den USA Division 1, sofern diese den dort geltenden Anforderungen genügen. Nähere Informationen dazu finden Sie in diesem Katalog auf der Seite 824.

Switching amplifier/ isolating switching amplifier

Functions

Switching amplifiers are designed to transmit galvanically isolated binary signals from sensors or mechanical contacts. In addition, isolating switching amplifiers are also suited to transfer binary signals from the explosion hazardous area to the safe area. Sensors according to EN 60947-5-6 (NAMUR) and mechanical contacts may be connected.

Input circuit monitoring

TURCK's isolating switching amplifiers, types IM1..., MK13-... and MS13..., feature input circuit monitoring, so that the cable to the sensor or contact is monitored for short-circuit or wire-break conditions. If mechanical contacts are connected, it is required to wire a resistor circuitry, type WM1, directly to the contact (see accessories).



Amplificateur de signaux/ amplificateur séparateur

Output performance

Most isolating amplifiers allow reversion of the output mode. Please note that when connecting inductive NAMUR sensors, the output performance is reverse to that of mechanical contacts or capacitive NAMUR sensors. The normally open or normally closed performance can be selected by installation of a jumper or by changing the switch position on the front of the device. Thus it is possible to select any combination of damped/undamped sensor and active/inactive output.

Intrinsic safety

Switching amplifiers have to be mounted in the safe area. They feature intrinsically safe circuits. Sensors and contacts located in highly explosion hazardous areas, e.g. zone 0 in Europe and division 1 in the United States, are connectable, provided these meet the specific national requirements. More information is contained on page 824.

Fonction

Les amplificateurs séparateurs sont utilisés pour la transmission de signaux binaires délivrés par des détecteurs ou contacts mécaniques. Ces appareils sont aussi utilisés pour l'acquisition de signaux binaires en provenance d'une zone explosive. Des détecteurs suivant EN 60947-5-6 (NAMUR) et des contacts mécaniques peuvent être raccordés.

Surveillance du circuit d'entrée

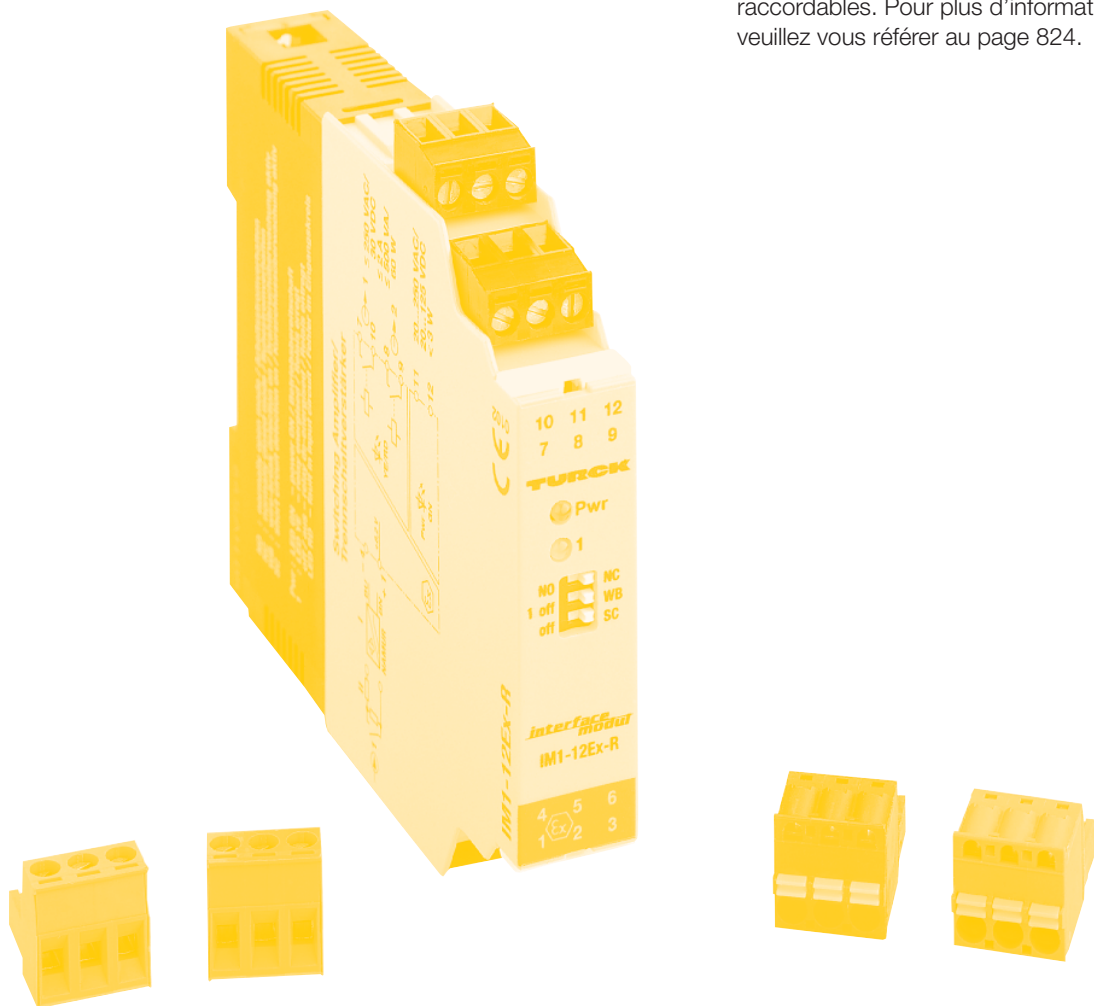
Les amplificateurs séparateurs TURCK des types IM1..., MK13-... et MS13... disposent d'une surveillance du circuit d'entrée permettant de surveiller le câblage du détecteur ou du contact aux ruptures de câble et aux courts-circuits. En cas de raccordement de contacts mécaniques, le contact doit être équipé directement du module d'adaptation WM1 (voir accessoires).

Sens d'action

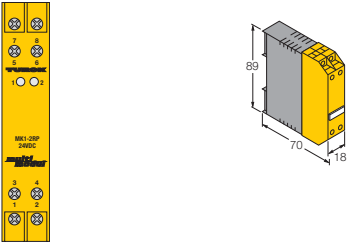
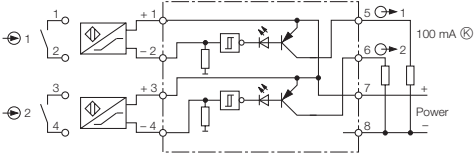
La plupart des amplificateurs séparateurs permettent un changement du sens d'action. Lors de la commande par détecteurs inductifs NAMUR le comportement est inverse par rapport aux contacts mécaniques ou aux détecteurs capacitifs NAMUR. Par pontage ou en changeant la position d'un commutateur en face avant, il est possible de faire commuter la sortie en fonction travail ou repos. Par conséquent il est possible de choisir parmi toutes les combinaisons - détecteur influencé/non-influencé et sortie activée/non-activée.

Sécurité intrinsèque

Les amplificateurs séparateurs doivent être montés en zone sûre et disposent de circuits de courant dans le mode de protection "sécurité intrinsèque". Des détecteurs et des contacts installés en zone explosive, par ex. zone 0 en Europe et division 1 aux Etats Unis, sont raccordable. Pour plus d'informations veuillez vous référer au page 824.



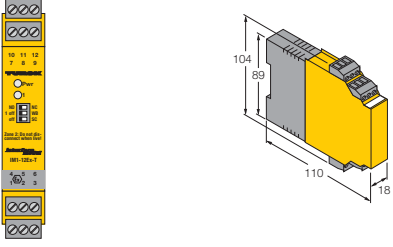
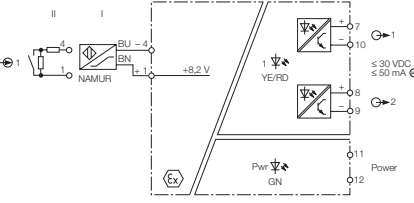
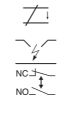
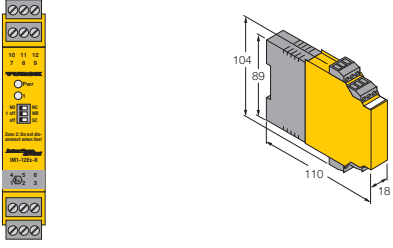
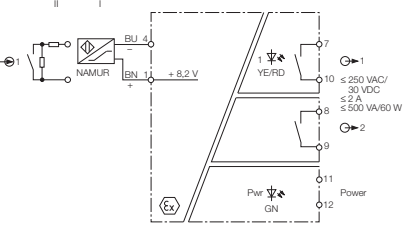
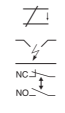
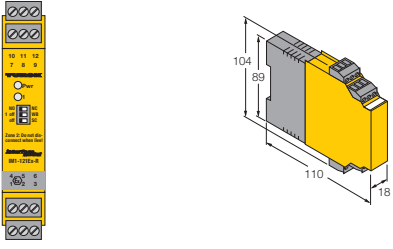
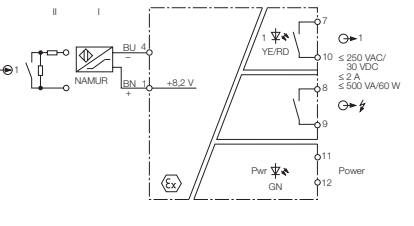
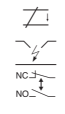
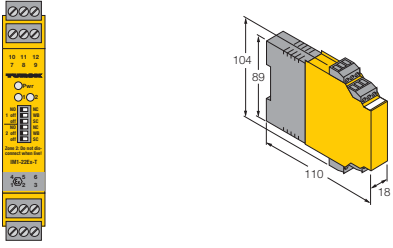
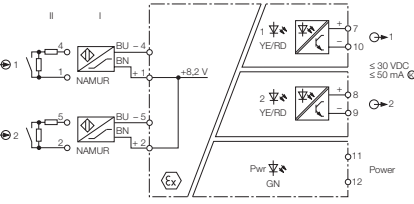
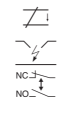
Interfacetechnik – Schaltverstärker
Interface technology – Switching amplifiers
Technique d'interface – Amplificateurs de signaux









<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(E 853)</p>	<p>Betriebs- spannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
		<p>NC</p> <p>NO</p>	<p>19...29 VDC</p> <p>19...29 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description
MK1-2RP/24VDC	7505501*	1000 Hz	MK1-2AP: Schaltverstärker; Wirkungsrichtung: Arbeitsstromverhalten, MK1-2RP: Schaltverstärker; Wirkungsrichtung: Ruhestromverhalten/ MK1-2AP: Switching amplifier, normally open output mode, MK1-2RP: Switching amplifier, normally closed output mode/ MK1-2AP: Amplificateur-séparateur; sens d'action: fonction travail, MK1-2RP: Amplificateur-séparateur; sens d'action: fonction repos
MK1-2AP/24VDC	7505500*	1000 Hz	

* = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Trennschaltverstärker
Interface technology – Isolating switching amplifiers
Technique d'interface – Amplificateurs séparateurs

<p>Frontansicht und Abmessungen Front view and dimensions Vue frontale et dimensions [mm]</p>	<p>Blockschaltbild Circuit diagram Schéma fonctionnel</p>	<p>Funktionen Functions Fonctions (IEC 853)</p>	<p>Betriebs- spannung Operational voltage Tension de service [V]</p>	
			<p>20...250 VAC 20...125 VDC</p>	
			<p>20...250 VAC 20...125 VDC</p>	
			<p>20...250 VAC 20...125 VDC</p>	
			<p>20...250 VAC 20...125 VDC</p>	

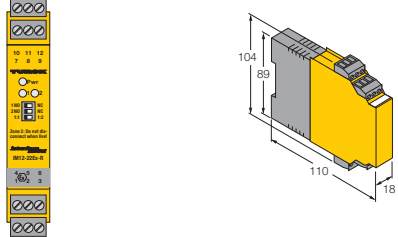
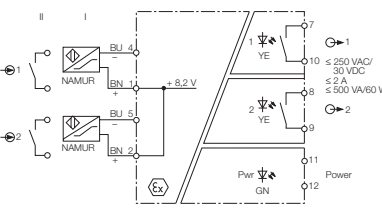

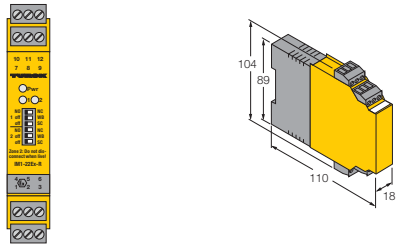
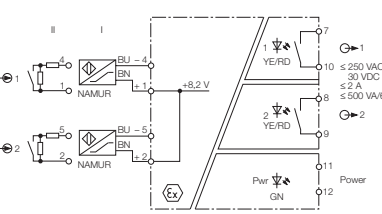
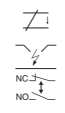
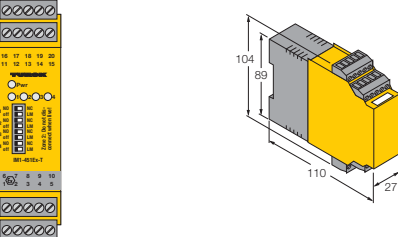
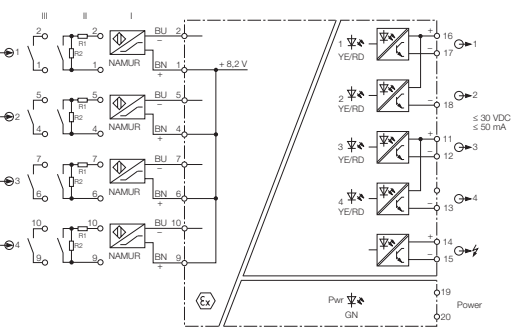
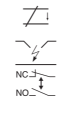
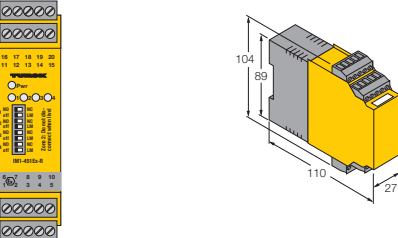
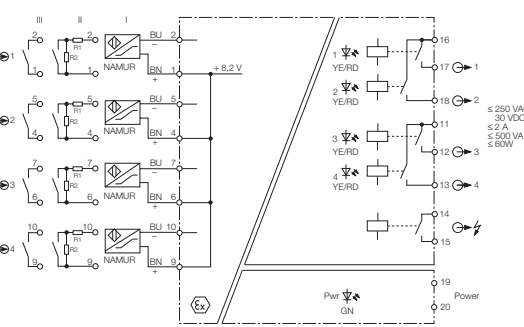
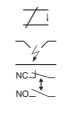
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
IM1-12EX-T	7541227 ^x	5000 Hz	Einstellung der Wirkungsrichtung und Leitungsüberwachung, abziehbare Klemmenblöcke/ Adjustable output mode and line monitoring functions, removable terminal blocks/ Programmation du sens d'action et surveillance du circuit d'entrée, blocs de bornes débrochables	TÜV 04 ATEX 2553 ⊕ II (1) GD [EEx ia] IIC U ₀ = 9.6 V, I ₀ = 11 mA, P ₀ = 26 mW, linear	 
IM1-12EX-R	7541226 ^x	10 Hz	Einstellung der Wirkungsrichtung und Leitungsüberwachung, abziehbare Klemmenblöcke/ Adjustable output mode and line monitoring functions, removable terminal blocks/ Programmation du sens d'action et surveillance du circuit d'entrée, blocs de bornes débrochables	TÜV 04 ATEX 2553 ⊕ II (1) GD [EEx ia] IIC U ₀ = 9.6 V, I ₀ = 11 mA, P ₀ = 26 mW, linear	 
IM1-121EX-R	7541229 ^x	10 Hz	Einstellung der Wirkungsrichtung und Leitungsüberwachung, abziehbare Klemmenblöcke/ Adjustable output mode and line monitoring functions, removable terminal blocks/ Programmation du sens d'action et surveillance du circuit d'entrée, blocs de bornes débrochables	TÜV 04 ATEX 2553 ⊕ II (1) GD [EEx ia] IIC U ₀ = 9.6 V, I ₀ = 11 mA, P ₀ = 26 mW, linear	 
IM1-22EX-T	7541232 ^x	5000 Hz	Einstellung der Wirkungsrichtung und Leitungsüberwachung pro Kanal, abziehbare Klemmenblöcke/ Adjustable output mode and line monitoring for each channel functions, removable terminal blocks/ Programmation du sens d'action et surveillance du circuit d'entrée par canal, blocs de bornes débrochables	TÜV 04 ATEX 2553 ⊕ II (1) GD [EEx ia] IIC U ₀ = 9.6 V, I ₀ = 11 mA, P ₀ = 26 mW, linear	 


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Interfacetechnik – Trennschaltverstärker

Interface technology – Isolating switching amplifiers

Technique d'interface – Amplificateurs séparateurs

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
			<p>20...250 VAC</p> <p>20...125 VDC</p>	
			<p>20...250 VAC</p> <p>20...125 VDC</p>	
			<p>20...250 VAC</p> <p>20...125 VDC</p>	
			<p>20...250 VAC</p> <p>20...125 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
IM12-22EX-R	7541233 ^x	10 Hz	Einstellung per Frontschalter: Signalvervielfachung von 1 Ein-/ auf 2 Ausgänge mögl., Einstell. der Wirkungsrichtung pro Kanal/ Front switch adjustments: signal multiplication from 1 input to 2 outputs, adjustable output mode of each channel/ Program. par interrupteur en face avant, duplication des signaux d'une entrée sur 2 sorties possible, progr. du sens d'action par canal	TÜV 04 ATEX 2553 ⊕ II (1) GD [EEx ia] IIC U ₀ = 9.6 V, I ₀ = 11 mA, P ₀ = 26 mW, linear	⊕
IM1-22EX-R	7541231 ^x	10 Hz	Einstellung der Wirkungsrichtung und Leitungsüberwachung pro Kanal, abziehbare Klemmenblöcke/ Adjustable output mode and line monitoring functions for each channel, removable terminal blocks/ Programmation du sens d'action et surveillance du circuit d'entrée par canal, blocs de bornes débrochables	TÜV 04 ATEX 2553 ⊕ II (1) GD [EEx ia] IIC U ₀ = 9.6 V, I ₀ = 11 mA, P ₀ = 26 mW, linear	⊕ 
IM1-451EX-T	7541189 ^x	5000 Hz	Einstellung der Wirkungsrichtung und Leitungsüberwachung pro Kanal, abziehbare Klemmenblöcke/ Adjustable output mode and line monitoring functions for each channel, removable terminal blocks/ Programmation du sens d'action et surveillance du circuit d'entrée par canal, blocs de bornes débrochables	TÜV 04 ATEX 2604 ⊕ II (1) GD [EEx ia] IIC U ₀ = 11.3 V, I ₀ = 13 mA, P ₀ = 36 mW, linear	⊕
IM1-451EX-R	7541188 ^x	10 Hz	Einstellung der Wirkungsrichtung und Leitungsüberwachung pro Kanal, abziehbare Klemmenblöcke/ Adjustable output mode and line monitoring functions for each channel, removable terminal blocks/ Programmation du sens d'action et surveillance du circuit d'entrée par canal, blocs de bornes débrochables	TÜV 04 ATEX 2604 ⊕ II (1) GD [EEx ia] IIC U ₀ = 11.3 V, I ₀ = 13 mA, P ₀ = 36 mW, linear	⊕

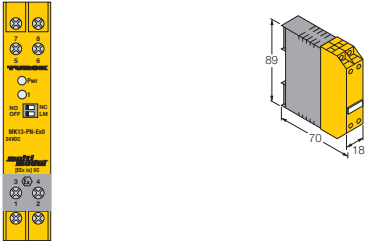
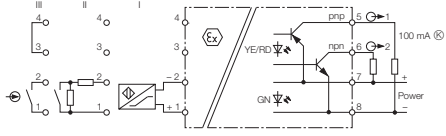

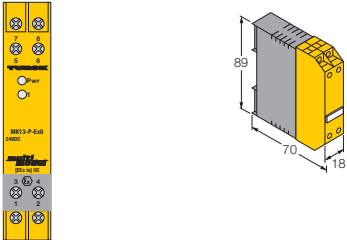
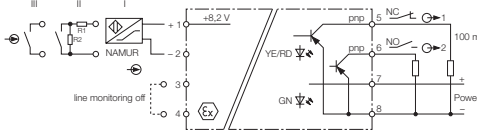

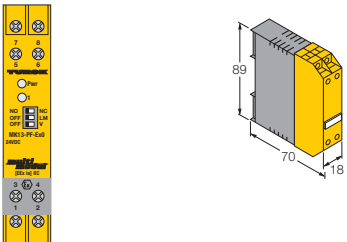
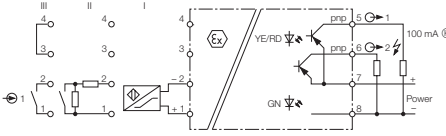

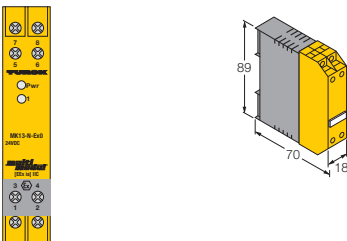
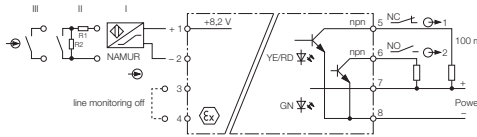

Interfacetechnik/Interface Technology/
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Interfacetechnik – Trennschaltverstärker

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			<p>10...30 VDC</p>	
			<p>10...30 VDC</p>	
			<p>10...30 VDC</p>	
			<p>10...30 VDC</p>	

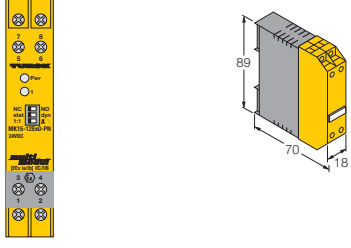
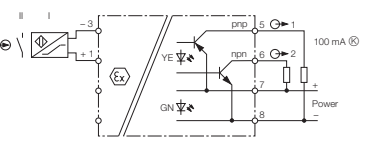

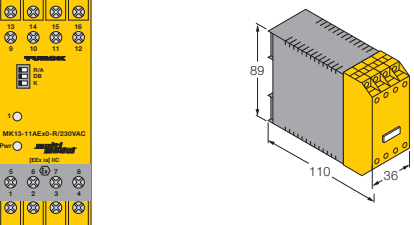
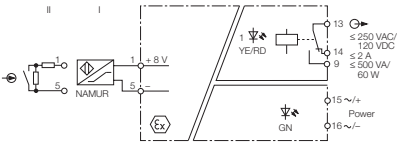
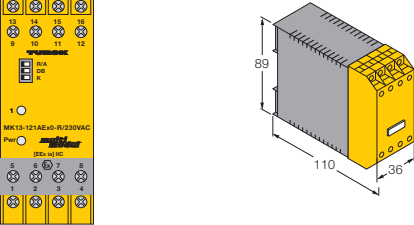
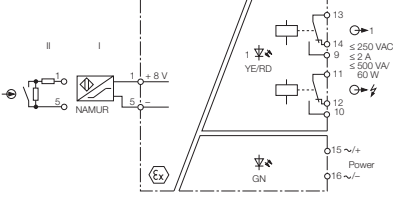
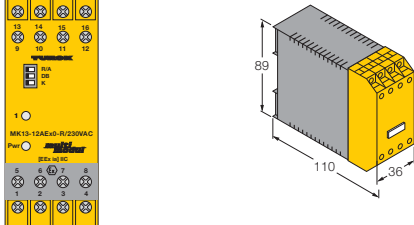
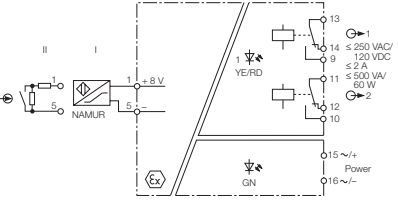
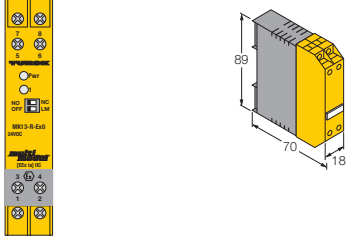
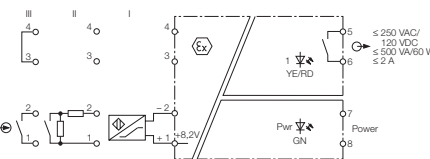

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
MK13-PN-EX0/24VDC	7542114 ^x	3000 Hz	Leitungsüberwachung abschaltbar, frontseitiger Schalter für Wirkungsrichtung, beide Ausgänge stets gleichzeitig leitend/gesperrt/ Optional line monitoring funct., adjustable output mode via front panel switch, both outputs either conducting or disabled/ Surveillance du circuit d'entrée désactivable, programmation du sens d'action par interrupteur an face avant, 2 sorties parallèles	TÜV 03 ATEX 2235 ⊕ II (1) GD [EEx ia] IIC U ₀ = 9.9 V, I ₀ = 12 mA, P ₀ = 30 mW, linear	⊕
MK13-P-EX0/24VDC	7542116 ^x	3000 Hz	Leitungsüberwachung abschaltbar, Ausgänge antivalent schaltend/ Optional line monitoring function, complementary outputs/ Surveillance du circuit d'entrée désactivable, sorties complémentaires	TÜV 03 ATEX 2235 ⊕ II (1) GD [EEx ia] IIC U ₀ = 9.9 V, I ₀ = 12 mA, P ₀ = 30 mW, linear	⊕
MK13-PF-EX0/24VDC	7542112 ^x	3000 Hz	Leitungsüberwachung abschaltbar, Ausgänge antivalent betreibbar, frontseitiger Schalter für Wirkungsrichtungseinstellung/ Optional line monitoring funct., selectable complementary output function, adjustable output mode via front panel switch/ Surveillance du circuit d'entrée désactivable, sorties complémentaires, interrupteur en face avant pour le sens d'action	TÜV 03 ATEX 2235 ⊕ II (1) GD [EEx ia] IIC U ₀ = 9.9 V, I ₀ = 12 mA, P ₀ = 30 mW, linear	⊕
MK13-N-EX0/24VDC	7542117 ^x	3000 Hz	Leitungsüberwachung abschaltbar, Ausgänge antivalent schaltend/ Optional line monitoring function, exclusive OR output function/ Surveillance du circuit d'entrée désactivable, sorties complémentaires	TÜV 03 ATEX 2235 ⊕ II (1) GD [EEx ia] IIC U ₀ = 9.9 V, I ₀ = 12 mA, P ₀ = 30 mW, linear	⊕


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			<p>10...30 VDC</p>	
			<p>196...253 VAC</p> <p>10...30 VDC</p>	
			<p>196...253 VAC</p> <p>10...30 VDC</p>	
			<p>196...253 VAC</p> <p>10...30 VDC</p>	
			<p>20...250 VAC</p> <p>20...125 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
MK15-12EX0-PN/24VDC	7541316 ^x	5000 Hz	Frontseitige Schalter für Wirkungsrichtung, Impulsverarbeitung und Impulsverlängerung/ Front switch for output mode, pulse processing and pulse extension/ Interrupteurs en face avant pour le sens d'action, traitement et étalement des impulsions	TÜV 03 ATEX 2121 ⊕ II (1/2) GD [EEx ia] IIC U ₀ = 11.3 V, I ₀ = 14 mA, P ₀ = 39 mW, linear	⊕
MK13-11AEX0-R/230VAC MK13-11AEX0-R/24VDC	7541241 ^x 7541242 ^x	10 Hz 10 Hz	Frontseitige Schalter für Wirkungsrichtung und Leitungsüberwachung/ Front panel switches for output mode and line monitoring adjustments/ Interrupteur en face avant pour le sens d'action et la surveillance du circuit d'entrée	PTB 99 ATEX 2083 ⊕ II (1) G [EEx ia] IIC U ₀ = 11.9 V, I ₀ = 36 mA, P ₀ = 108 mW, linear	⊕
MK13-121AEX0-R/230VAC MK13-121AEX0-R/24VDC	7541243 ^x 7541244 ^x	10 Hz 10 Hz	Frontseitige Schalter für Wirkungsrichtung und Leitungsüberwachung/ Front panel switches for output mode and line monitoring adjustments/ Interrupteur en face avant pour le sens d'action et la surveillance du circuit d'entrée	PTB 99 ATEX 2083 ⊕ II (1) G [EEx ia] IIC U ₀ = 11.9 V, I ₀ = 36 mA, P ₀ = 108 mW, linear	⊕
MK13-12AEX0-R/230VAC MK13-12AEX0-R/24VDC	7541246 ^x 7541247 ^x	10 Hz 10 Hz	Frontseitige Schalter für Wirkungsrichtung und Leitungsüberwach., 2 par. Ausgänge/ Front panel switches for output mode and line monitoring adjustments, 2 parallel outputs/ Interrupteur en face avant pour le sens d'action et la surveillance du circuit d'entrée, 2 sorties parallèles	PTB 99 ATEX 2083 ⊕ II (1) G [EEx ia] IIC U ₀ = 11.9 V, I ₀ = 36 mA, P ₀ = 108 mW, linear	⊕
MK13-R-EX0	7542123 ^x	10 Hz	Leitungsüberwachung abschaltbar, frontseitige Schalter für Wirkungsrichtungseinstell./ Optional line monitoring function, output mode adjustment via front panel switch/ Surveillance du circuit d'entrée désactivable, programmation du sens d'action par interrupteur en face avant	TÜV 04 ATEX 2621 ⊕ II (1) GD [EEx ia] IIC U ₀ = 9.6 V, I ₀ = 11 mA, P ₀ = 26 mW, linear	⊕ 

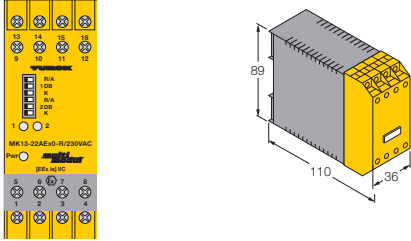
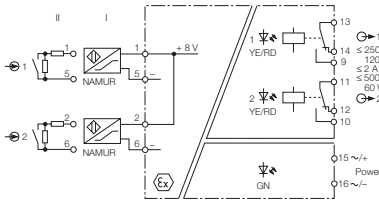

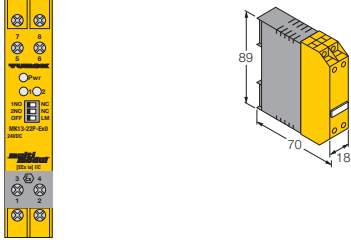
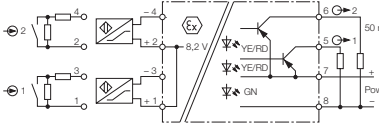
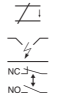
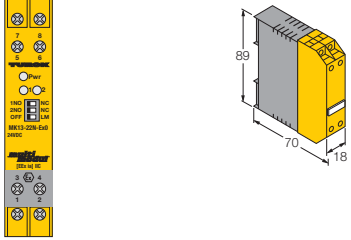
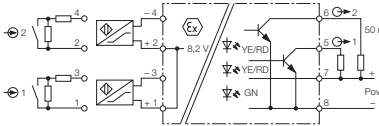
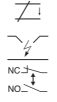
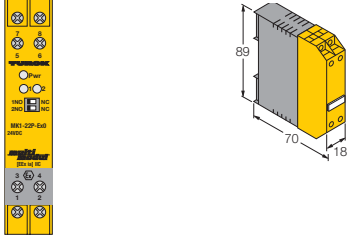
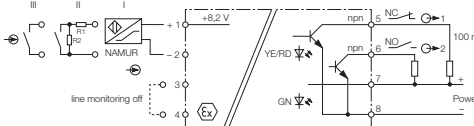

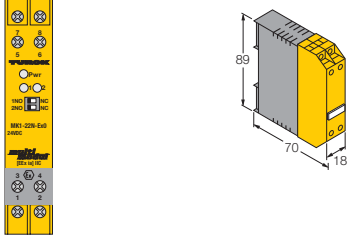
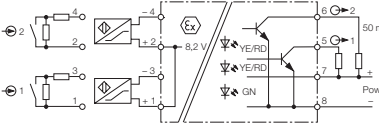

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 <p>MK13-22AE-RU-230VAC 230V AC 230V AC</p>			<p>196...253 VAC</p> <p>10...30 VDC</p>	
 <p>MK13-22B-RU-230VAC 230V AC 230V AC</p>			<p>19...29 VDC</p>	
 <p>MK13-22B-RU-230VAC 230V AC 230V AC</p>			<p>19...29 VDC</p>	
 <p>MK13-22B-RU-230VAC 230V AC 230V AC</p>	 <p>line monitoring off</p>		<p>19...29 VDC</p>	
 <p>MK13-22B-RU-230VAC 230V AC 230V AC</p>			<p>19...29 VDC</p>	

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MK13-22AEX0-R/230VAC MK13-22AEX0-R/24VDC	7541249✘ 7541250✘	10 Hz 10 Hz	Einstellung der Wirkungsrichtung und Leitungsüberwachung pro Kanal/ Output mode and line monitoring functions of each channel separately adjustable/ Programmation du sens d'action et surveillance du circuit d'entrée par canal	PTB 99 ATEX 2083 II (1) G [EEx ia] IIC U ₀ = 11.9 V, I ₀ = 36 mA, P ₀ = 108 mW, linear	
MK13-22P-EX0/24VDC	7542111✘	3000 Hz	Gemeinsame Einstellung der Wirkungs- richtung/ Mutual adjustment of output mode/ Programmation commune du sens d'action	TÜV 03 ATEX 2235 II (1) GD [EEx ia] IIC U ₀ = 9.9 V, I ₀ = 12 mA, P ₀ = 30 mW, linear	
MK13-22N-EX0/24VDC	7542110✘	3000 Hz	Gemeinsame Einstellung der Wirkungs- richtung/ Mutual adjustment of output mode/ Programmation commune du sens d'action	TÜV 03 ATEX 2235 II (1) GD [EEx ia] IIC U ₀ = 9.9 V, I ₀ = 12 mA, P ₀ = 30 mW, linear	
MK1-22P-EX0/24VDC	7505643✘	3000 Hz	Einstellung der Wirkungsrichtung per frontseitigem Schalter/ Output mode adjustment via front panel switch/ Programmation du sens d'action par interrupteur en face avant	TÜV 03 ATEX 2235 II (1) GD [EEx ia] IIC U ₀ = 9.9 V, I ₀ = 12 mA, P ₀ = 30 mW, linear	
MK1-22N-EX0/24VDC	7505642✘	3000 Hz	Einstellung der Wirkungsrichtung per frontseitigem Schalter/ Output mode adjustment via front panel switch/ Programmation du sens d'action par interrupteur en face avant	TÜV 03 ATEX 2235 II (1) GD [EEx ia] IIC U ₀ = 9.9 V, I ₀ = 12 mA, P ₀ = 30 mW, linear	

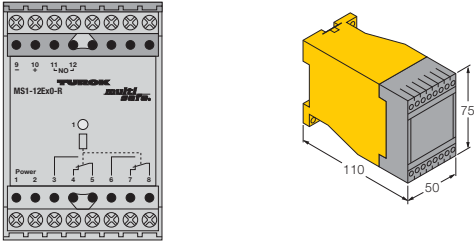
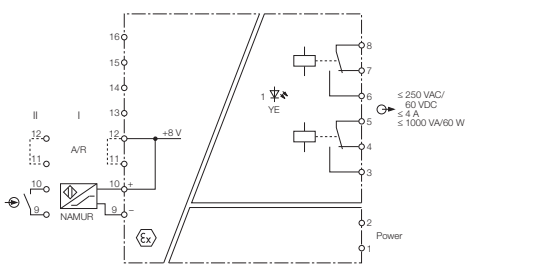

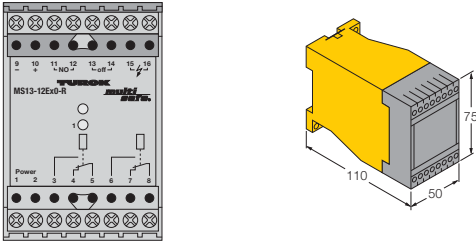
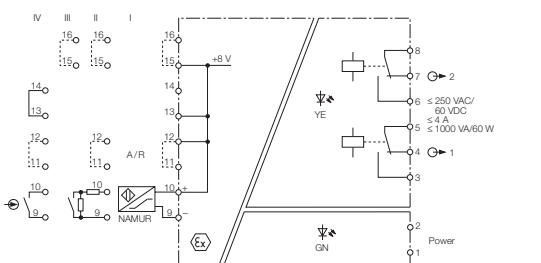
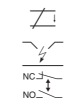
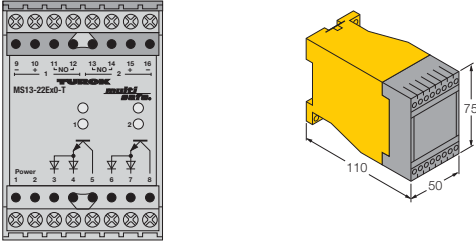
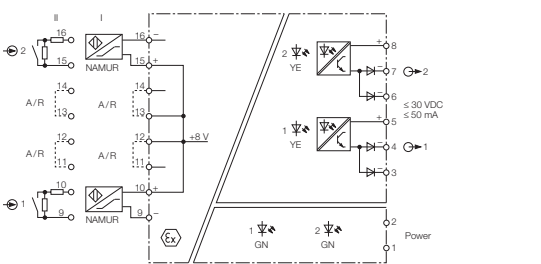
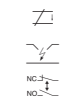
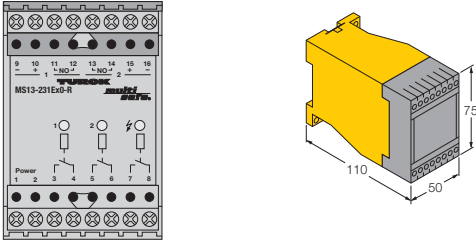
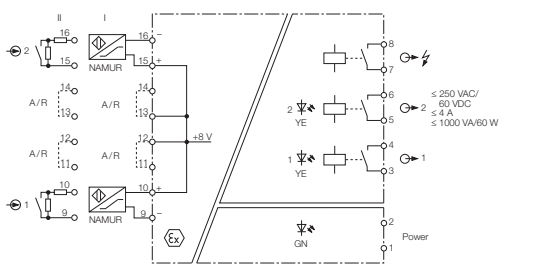
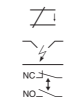
Interfacetechnik/Interface Technology/
Technique d'interface

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Trennschaltverstärker

Interface technology – Isolating switching amplifiers

Technique d'interface – Amplificateurs séparateurs

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
 <p>MS1-12ExD-R</p>			<p>20...250 VAC</p> <p>20...125 VDC</p>	
 <p>MS13-12ExD-R</p>			<p>20...250 VAC</p> <p>20...125 VDC</p>	
 <p>MS13-22ExD-T</p>			<p>20...250 VAC</p> <p>20...125 VDC</p>	
 <p>MS13-231ExD-R</p>			<p>20...250 VAC</p> <p>20...125 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
MS1-12EX0-R	5311103 ^x	10 Hz	Wirkungsrichtungseinstellung d. Drahtbrücke, 2 gleichschaltende Ausgänge zur Signal- vervielfachung/ Output mode adjustm. via jumpers, 2 parallel outputs for signal multiplication/ Programmation du sens d'action par pontage, 2 sorties indépendantes pour la duplication des signaux	DMT 01 ATEX E 119 ⊕ II (1) GD; I (M1) [EEx ia] IIC U ₀ = 11 V, I ₀ = 55 mA, P ₀ = 150 mW, linear	⊕
MS13-12EX0-R	5321302 ^x	10 Hz	2 gleichschalt. Ausg. oder 1 Schalt- und 1 Störmeldeausg., Einstell. d. Drahtbrücke f. Wirkungsricht., Eingangskreis u. Störmeld./ 2 parallel outputs or 1 switch. and 1 alarm output, jumper adjustm. of output mode, input circuit monitor. and alarm indications/ 2 sorties indépendantes ou 1 sortie logique et 1 sortie d'alarme, programmation par pontage du sens d'action circuit d'entrée et sortie d'alarme	DMT 01 ATEX E 119 ⊕ II (1) GD; I (M1) [EEx ia] IIC U ₀ = 11 V, I ₀ = 55 mA, P ₀ = 150 mW, linear	⊕
MS13-22EX0-T	5422302 ^x	2000 Hz	Wirkungsrichtung per Drahtbrücke pro Kanal einstellbar, Summenstörmeldeausgang/ Output mode of each channel separately adjustable via jumpers, common alarm output/ Programmation du sens d'action par pontage par canal, sortie d'alarme commune	DMT 01 ATEX E 119 ⊕ II (1) GD; I (M1) [EEx ia] IIC U ₀ = 11 V, I ₀ = 55 mA, P ₀ = 150 mW, linear	⊕
MS13-231EX0-R	5335502 ^x	10 Hz	Wirkungsrichtung per Drahtbrücke pro Kanal einstellbar/ Output mode of each channel separately adjustable via jumpers/ Programmation du sens d'action par pontage par canal	DMT 01 ATEX E 119 ⊕ II (1) GD; I (M1) [EEx ia] IIC U ₀ = 11 V, I ₀ = 55 mA, P ₀ = 150 mW, linear	⊕

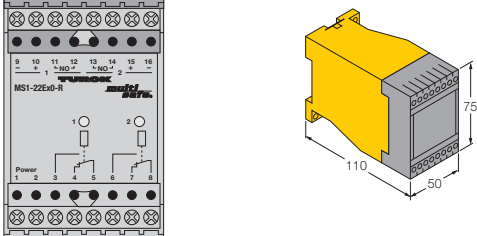
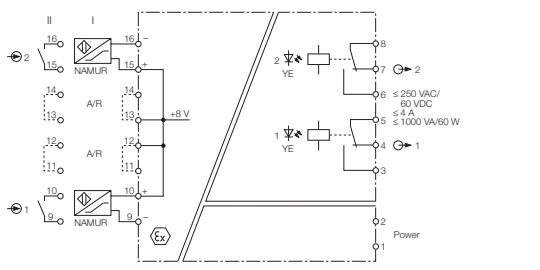

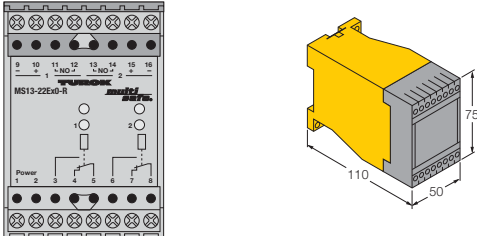
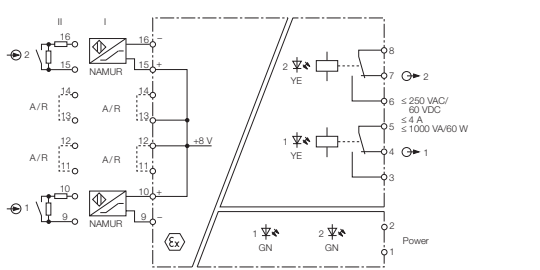
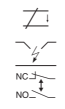
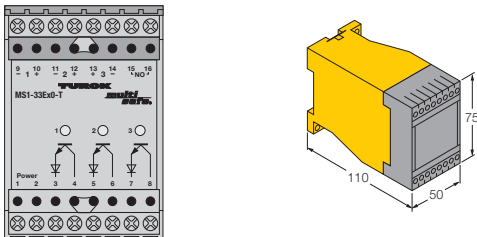
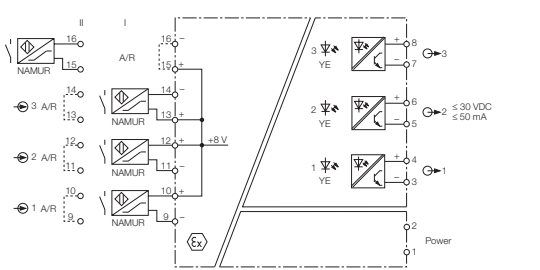

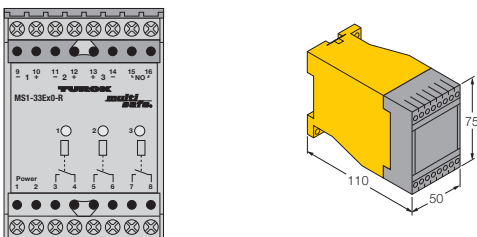
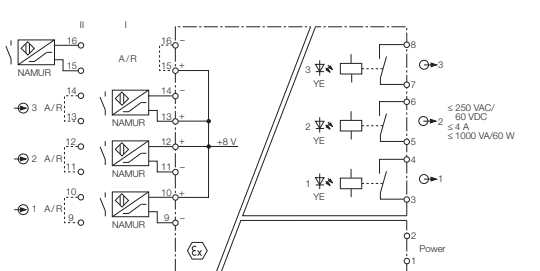

Interfacetechnik/Interface Technology/
Technique d'interface

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Trennschaltverstärker

Interface technology – Isolating switching amplifiers

Technique d'interface – Amplificateurs séparateurs

Frontansicht und Abmessungen Front view and dimensions Vue frontale et dimensions [mm]	Blockschaltbild Circuit diagram Schéma fonctionnel	Funktionen Functions Fonctions (IEC 853)	Betriebs- spannung Operational voltage Tension de service [V]	
 <p>MSI-22E0-R</p>			20...250 VAC 20...125 VDC	
 <p>MSI-22E0-R</p>			20...250 VAC 20...125 VDC	
 <p>MSI-33E0-R</p>			20...250 VAC 20...125 VDC	
 <p>MSI-33E0-R</p>			20...250 VAC 20...125 VDC	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessments Certificats/ Évaluations
MS1-22EX0-R	5312403 ^x	10 Hz	Wirkungsrichtung per Drahtbrücke pro Kanal einstellbar/ Output mode of each channel separately adjustable via jumpers/ Programmation du sens d'action par pontage par canal	DMT 01 ATEX E 119 ⊕ II (1) GD; I (M1) [EEx ia] IIC U ₀ = 11 V, I ₀ = 55 mA, P ₀ = 150 mW, linear	⊕
MS13-22EX0-R	5322203 ^x	10 Hz	Wirkungsrichtung per Drahtbrücke pro Kanal einstellbar/ Output mode of each channel separately adjustable via jumpers/ Programmation du sens d'action par pontage pour chaque canal	DMT 01 ATEX E 119 ⊕ II (1) GD; I (M1) [EEx ia] IIC U ₀ = 11 V I ₀ = 55 mA, P ₀ = 150 mW, linear	⊕
MS1-33EX0-T	5413103 ^x	2000 Hz	Wirkungsrichtung durch Drahtbrücke für alle Kanäle gemeinsam/ Mutual output mode adjustment for all channels via jumpers/ Programmation du sens d'action par pontage pour tous les canaux à la fois	DMT 01 ATEX E 119 ⊕ II (1) GD; I (M1) [EEx ia] IIC U ₀ = 11 V, I ₀ = 55 mA, P ₀ = 150 mW, linear	⊕
MS1-33EX0-R	5313102 ^x	10 Hz	Wirkungsrichtung durch Drahtbrücken für alle Kanäle gemeinsam, altern. 1 Eing. auf 3 Ausg. z. Signalvervielf. mit Wirkungsricht. pro Kanal/ Mutual output mode adjustm. for all channels, altern. 1 input to 3 outputs for signal multiplication with separate output mode function/ Sens d'action par pontage pour tous les canaux à la fois, alternativement 1 entrée sur 3 sorties pour la multiplication de signaux avec sens d'action par canal	DMT 01 ATEX E 119 ⊕ II (1) GD; I (M1) [EEx ia] IIC U ₀ = 11 V, I ₀ = 55 mA, P ₀ = 150 mW, linear	⊕

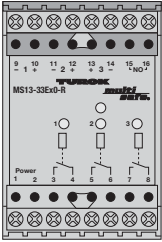
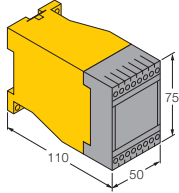
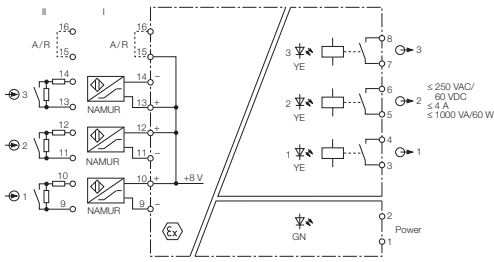


Interfacetechnik/Interface Technology/
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^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Trennschaltverstärker

Interface technology – Isolating switching amplifiers

Technique d'interface – Amplificateurs séparateurs

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
 		 	<p>20...250 VAC</p> <p>20...125 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
MS13-33EX0-R	5333202 ^x	10 Hz	Wirkungsrichtung für alle Kanäle gemeinsam per Drahtbrücke einstellbar/ Output mode mutually adjustable for all channels via jumper/ Programmation du sens d'action par pontage pour tous les canaux à la fois	DMT 01 ATEX E 119 ⊕ II (1) GD; I (M1) [EEx ia] IIC U ₀ = 11 V, I ₀ = 55 mA, P ₀ = 150 mW, linear	⊕

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Drehzahlmesser/ Drehzahlwächter/ Frequenz-Stromumsetzer

Funktion

Frequenz- und Drehzahlüberwachungsgeräte werden dort eingesetzt, wo physikalische Rotationen, Hub- oder oszillierende Bewegungen überwacht oder gemessen werden sollen. Ebenso eignen sich die TURCK-Geräte zur Frequenzmessung oder Überwachung von elektronischen Ausgängen. Dem komplexen Anwendungsgebiet entsprechend befinden sich folgende Gerätegruppen im Lieferprogramm:

- Frequenz- und Drehzahlmessung Umsetzung des Messwerts in einen Analogwert
- Frequenz- und Drehzahlüberwachung Überwachung auf Unter- und/oder Überschreitung
- Kombinationsgeräte Frequenz-/Drehzahlwächter mit Analogausgang
- Richtungsdiskriminator Erkennung der Drehrichtung
- Schlupfwächter Überwachung zweier Wellen auf Gleichlauf

Messverfahren

TURCK-Frequenz- und Drehzahlüberwachungsgeräte arbeiten weitestgehend nach dem Periodendauer-Messverfahren. Es wird der Zeitabstand zwischen zwei aufeinanderfolgenden Eingangsimpulsen gemessen. Somit ist eine schnelle Reaktion möglich.

Impulsaufnahme

Als Impulsaufnehmer physikalischer Bewegungen eignen sich Sensoren gemäß EN 60947-5-6 (NAMUR) und Dreidraht-Sensoren. TURCK-Geräte eignen sich ebenfalls zur Überwachung elektronischer Ausgänge bspw. von Durchflussmessern.

Für die Frequenzabfrage können passive Elektronikausgänge, wie galvanisch getrennte Open-Collector-Schaltungen oder aktive 24-VDC-Signale angeschlossen werden.

Weitergehende Informationen, die auch Richtlinien zur Montage induktiver Sensoren umfassen, finden Sie u. a. in den TURCK-Katalogen „Induktive Sensoren“ oder „Interfacetechnik im Aufbaugehäuse“.

Rotation speed monitors/ Motion controls/Frequency to current converter

Functions

Frequency or rotational speed monitors are used to monitor or measure rotations, stroke or oscillating motion. TURCK devices are additionally suited to measure frequencies of electronic outputs. Complying with this complex field of application, TURCK offers a choice of following devices:

- Frequency and rotational speed monitors – conversion of the measuring value into an analogue signal
- Frequency and rotational speed monitors – overspeed and/or underspeed monitoring
- Combined devices – frequency/rotational speed monitors with analogue output
- Direction discriminators – detection of the direction of rotation
- Slip monitors – monitoring of two shafts for synchronous operation



Mesure de rotation/Contrôleur de rotation/Convertisseur fréquence-courant

Measuring principle

TURCK's frequency and rotational speed monitors mostly operate on the pulse period measurement principle. The time between two subsequent input pulses is measured. Thus fast reaction times can be achieved.

Pulse sensing

Sensors according to EN 60947-5-6 (NAMUR) and 3-wire sensors are suited to sensing physical motion. TURCK devices are also suited to monitor electronic outputs, e.g. of flow meters. For frequency monitoring, passive electronic and isolated open collector circuits or active 24 VDC signals may be connected.

Further information, including mounting guidelines for our inductive sensor range, is contained in our sensor catalogue or in our interface catalogue.

Fonction

Les contrôleurs de rotation sont utilisés pour la surveillance et la mesure de vitesse de rotation ou de cadence de fonctionnement. Ces appareils sont également appropriés pour la mesure de fréquence générée par des sorties électroniques. Compte tenu des nombreux types d'applications rencontrés, TURCK offre le choix des fonctions suivantes:

- Mesure de fréquence et de la vitesse de rotation
Transformation de la valeur mesurée dans une valeur analogique normalisée
- Contrôle de la fréquence et de la vitesse de rotation
Contrôle de la sous-vitesse et/ou de la survitesse
- Appareils combinés
Contrôle et mesure de fréquence/vitesse de rotation
- Discriminateur de sens de rotation
Reconnaissance du sens de rotation
- Contrôleur de glissement
Contrôle de la synchronisation de deux axes

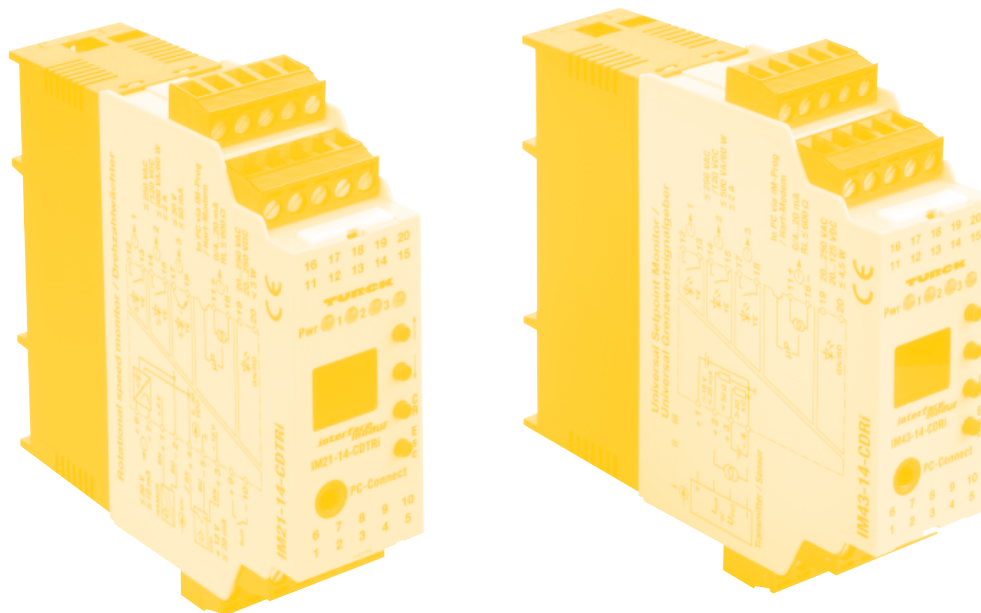
Méthode de mesure

Les appareils de surveillance de fréquence et de vitesse de rotation TURCK fonctionnent le plus souvent selon la méthode de mesure de durée d'une période. Ce principe permet un rafraîchissement immédiat de la mesure et un temps de réaction rapide.

Prise d'information

Les détecteurs selon EN 60947-5-6 (NAMUR), et les détecteurs 3 fils sont adaptés pour être utilisés comme capteurs d'impulsions de mouvements physiques. Les appareils TURCK sont également appropriés pour contrôler la fréquence générée par des sorties électroniques p.ex. de débitmètres. Des sorties passives, sorties statiques à collecteur ouvert ou sorties actives avec une amplitude de 24 VDC peuvent être connectées.

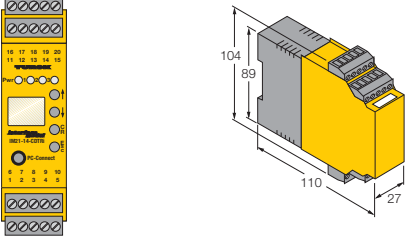
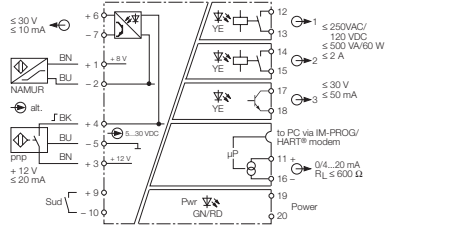
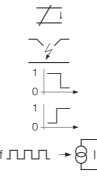
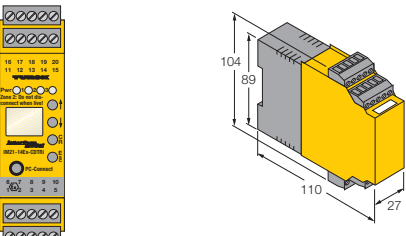
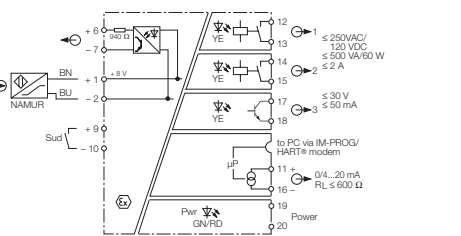
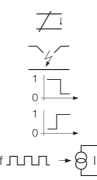
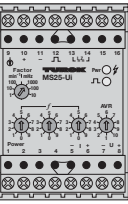
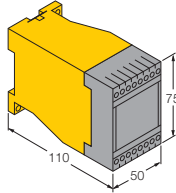
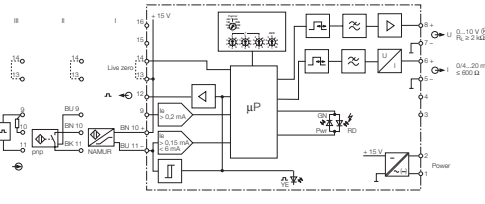
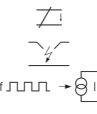
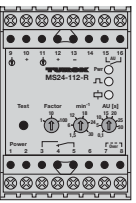
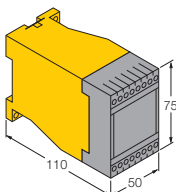
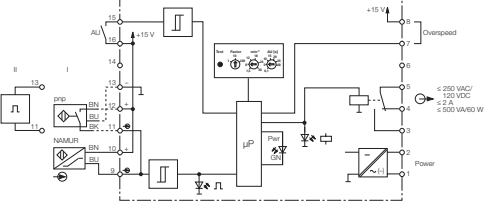

Pour plus d'informations et directives sur le montage de détecteurs inductifs veuillez vous référer au catalogue des détecteurs ou au catalogue technique d'interfaçage.



Interfacetechnik – Drehzahlwächter/Frequenz-Strom-Umsetzer

Interface technology – Rotational speed monitors/Frequency-current-converter

Technique d'interface – Contrôleurs de rotation/Convertisseur fréquence-courant

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
 <p>Dimensions: 104mm height, 110mm width, 27mm depth.</p>	 <p>Key components: NAMUR, BU, BK, PTP, Sued, YE, IP, Pwr, GN/RD, Power.</p>	 <p>Output: f (frequency)</p>	<p>20...250 VAC</p> <p>20...125 VDC</p>	
 <p>Dimensions: 104mm height, 110mm width, 27mm depth.</p>	 <p>Key components: NAMUR, BU, BK, PTP, Sued, YE, IP, Pwr, GN/RD, Power.</p>	 <p>Output: f (frequency)</p>	<p>20...250 VAC</p> <p>20...125 VDC</p>	
  <p>Dimensions: 75mm height, 110mm width, 50mm depth.</p>	 <p>Key components: NAMUR, BU, BK, PTP, Sued, YE, IP, Pwr, GN/RD, Power.</p>	 <p>Output: f (frequency)</p>	<p>20...250 VAC</p> <p>20...250 VDC</p>	
  <p>Dimensions: 75mm height, 110mm width, 50mm depth.</p>	 <p>Key components: NAMUR, BU, BK, PTP, Sued, YE, IP, Pwr, GN/RD, Power, Overload.</p>	 <p>Output: f (frequency)</p>	<p>20...250 VAC</p> <p>20...250 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
IM21-14-CDTRI	7505650 ✘	0.06...600000 min-1 0.001...10000 Hz	Displayanzeige, frei parametrierbare Überwachungsrelais und Stromausgang, Frequenz-Strom-Umsetzer, FDT/DTM/ Display indications, adjustable monitoring relays and current output, frequency-current-conversion, FDT/DTM/ Afficheur, relais de surveillance paramétr. au choix et sortie de courant, conversion fréquence courant, FDT/DTM/		
IM21-14EX-CDTRI	7505651 ✘	0.06...600000 min-1 0.001...10000 Hz	Displayanzeige, frei parametrierbare Überwachungsrelais und Stromausgang, Frequenz-Strom-Umsetzer, FDT/DTM/ Display indications, adjustable monitoring relays and current output, frequency-current-conversion, FDT/DTM/ Afficheur, relais de surveillance paramétr. au choix et sortie de courant, conversion fréquence courant, FDT/DTM/	IBExU07 ATEX 1132 ⊕ II (1) GD [Ex ia] IIC U ₀ = 9,6 V, I ₀ = 10,7 mA, P ₀ = 25 mW, linear	⊕
MS25-UI	0508220 ✘	0.6...100000 min-1 0.01...1666 Hz	Drehzahlmesser, gleitende Mittelwertbildung zur Signalberuhigung, Dreh-schaltereinstellung, Fortschaltausgang/ Rotation speed meter, floating average forming for signal steadying, rotary switch adjustments, pulse output/ Mesure de rotation, définition de la valeur moyenne flottante pour la stabilisation des signaux, réglage par interrupteur rotatif, sortie d'impulsions auxiliaires		
MS24-112-R	0518003 ✘	1.5...3000 min-1 0.025...50 Hz	Drehzahlwächter, Überwachung auf Unter- oder Überschreitung, Prüftaste, Anlaufüberbrückung/ Rotation speed monitor, underspeed or overspeed monitoring, test button, start-up delay/ Contrôleur de rotation, contrôle de sous-vitesse ou de survitesse, bouton de contrôle, inhibition au démarrage		

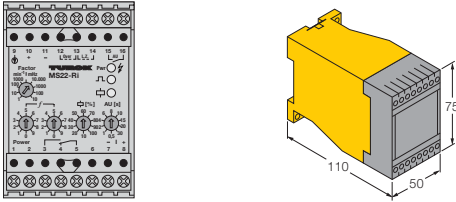
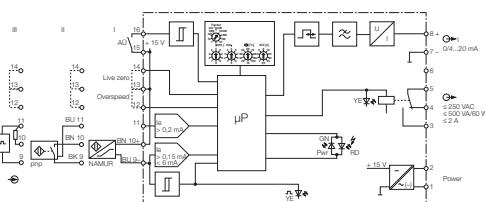
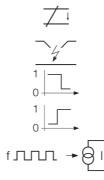
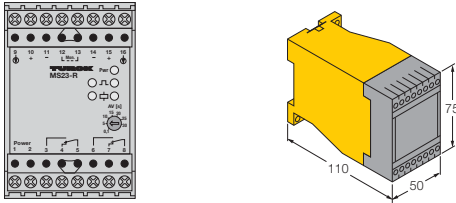
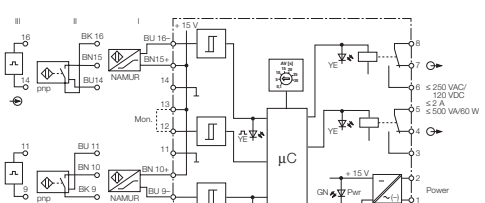

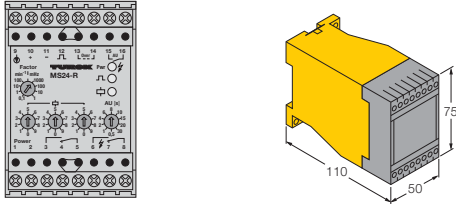
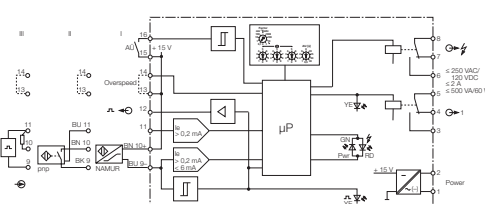
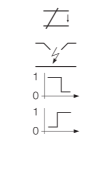
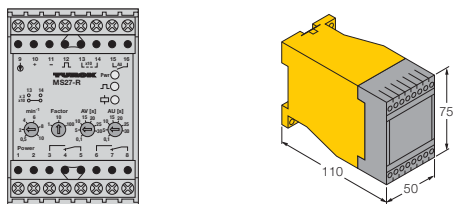
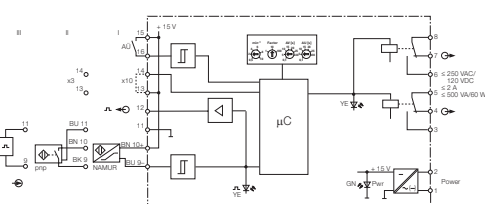

Interfacetechnik/Interface Technology/
Technique d'interface

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Drehzahlwächter/Frequenz-Strom-Umsetzer

Interface technology – Rotational speed monitors/Frequency-current-converter

Technique d'interface – Contrôleurs de rotation/Convertisseur fréquence-courant

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
			<p>20...250 VAC</p> <p>20...250 VDC</p>	
			<p>20...250 VAC</p> <p>20...250 VDC</p>	
			<p>20...250 VAC</p> <p>20...250 VDC</p>	
			<p>20...250 VAC</p> <p>20...250 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessments Certificats/ Évaluations
MS22-RI	0508010✘	0.6...100000 min-1 0.01...1666 Hz	Drehzahlmesser mit Stromausgang, Frequenz-Strom-Umsetzer, Grenzwertrelais, Anlaufüberbrückung, Drehschalter/ Rotation speed meter with current output, frequency-current-conversion, limit value relay, start-up delay, rotary switches/ Mesure de rotation avec sortie de courant, conversion fréquence courant, relais de limites, inhibition au démarrage, interrupteurs rotatifs		
MS23-R	0508112✘	< 120000 min-1 < 2000 Hz	Drehrichtungserkennung, gemeinsame Bedämpfung beider Sensoren für 1 ms notwendig, je 1 Relais pro Drehrichtung/ Direction detection, mutual damping of both sensors for 1 ms required, one relay per motion direction/ Reconnaissance du sens de rotation, influence simultanée des 2 détecteurs pour 1 ms requise, chacun 1 relais par sens de rotation		
MS24-R	0519009✘	0.6...100000 min-1 0.01...1666 Hz	Drehzahlwächter, Überwachung auf Über- oder Unterschreitung, Anlaufüberbrückung, Fortschaltausgang, Drehschalter/ Rotation speed monitor, underspeed and overspeed monitoring, start-up delay, pulse output, rotary switches/ Contrôleur de rotation, contrôle de sous-vitesse ou de survitesse, inhibition au démarrage, sortie d'impulsions auxiliaires, interrupteur rotatif		
MS27-R	0508412✘	1.5...10000 min-1 0.025...166 Hz	Stillstandswächter, Überwachung auf Unterschreitung, 2 gleichschaltende Ausgänge, Fortschaltausgang/ Zero-speed monitor, underspeed monitoring, 2 parallel outputs, pulse output/ Contrôleur d'arrêt, contrôle de sous-vitesse, 2 sorties indépendantes, sortie d'impulsions auxiliaires		

Interfacetechnik/Interface Technology/
Technique d'interface

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Analogsignaltrenner/ Messverstärker

Analogsignaltrenner werden eingesetzt, um bereits bestehende normierte Signale anzupassen, galvanisch zu trennen und gegebenenfalls zwischen Ex-Bereich und sicherem Bereich zu trennen. Die passiven Eingänge sind mit aktiven analogen Signalen zu betreiben. Der Ausgang ist aktiv.

Messumformer-Speisetrenner

Diese Geräte betreiben am Eingangskreis einen Messumformer (Transmitter), der eine physikalische Größe erfasst und in eine elektrische Größe umsetzt. Transmitter in 2-Leiter-Technik können grundsätzlich angeschlossen werden. Für Transmitter in 3-Leiter-Technik werden verschiedene Geräte angeboten. Zur Kommunikation mit dem Transmitter hat sich der HART®-Standard etabliert; es sind spezielle HART®-transparente Messumformer-Speisetrenner verfügbar.

Temperaturmessverstärker Kopfmessumformer

Temperatur-Messverstärker und Kopfmessumformer nehmen das Signal von Thermolementen oder Pt100-Sensoren auf und wandeln es in ein normiertes Signal um.

Es gibt grundsätzlich zwei Methoden zur Temperaturmessung:

1. Möglichkeit:
Der temperaturmessende Sensor wird über einen Kopfmessumformer angeschlossen. Der Kopfmessumformer wiederum wird an einen Messumformer-Speisetrenner angeschlossen.
2. Möglichkeit:
Das Thermolement oder der Pt100 wird direkt an ein Auswertegerät angeschlossen.

Potentiometerverstärker

Potentiometerverstärker setzen den Widerstandswert eines Potentiometers in ein normiertes Signal um. Dabei kann der Nennwiderstand des Potentiometers zwischen 800...20000 Ω liegen. Es wird der gesamte Widerstand, von 0 Ω bis zum Nennwiderstand, auf den Bereich des Analogsignals abgebildet.

Analog data transmitters/ Transducers

Analog data transmitters are used to condition or isolate standard signals and to transmit these from explosion hazardous areas to safe areas. Passive inputs are operated with active analog signals. The output is active.

Isolating transducers

The input circuit of these devices is used to operate a transmitter which detects a physical variable and converts it into an electrical value. All kinds of 2-wire transmitters may be connected. There are several devices for 3-wire transmitters. Communication based on the HART® standard is a well established transmission method. Therefore, there are special isolating transducers featuring HART® transparency.



Séparateurs de signaux analogiques/Amplificateurs de mesure

Temperature measurement amplifiers/head transducers

Temperature measuring amplifiers measure the signals from Pt100 RTDs or thermoelements and convert them into standard signals.

There are two temperature measurement methods:

Method 1:

The temperature measurement sensor is connected via a head transducer. The head transducer is connected to an isolating transducer.

Method 2:

The thermoelement or Pt100 RTD is connected directly to a signal processor.

Potentiometer amplifiers

Potentiometer amplifiers convert the resistance value of a potentiometer into a standard signal. The nominal resistance of the potentiometer may be between 800...20000 Ω. The entire resistance, ranging from 0 Ω up to the rated resistance, is reproduced by the analog signal range.

Les séparateurs de signaux analogiques sont utilisés pour la conversion et l'isolement galvanique de signaux analogiques standard et pour la transmission de ces signaux en provenance de zones explosibles. Les entrées doivent être actionnées moyennant des signaux analogiques. La sortie est active.

Convertisseurs de mesure

Ces appareils alimentent par le circuit d'entrée un convertisseur de mesure (transmetteur) qui évalue une grandeur physique et la convertit en une grandeur électrique. Des transmetteurs en technique 2 et 3 fils peuvent être raccordés. Certains appareils permettent une communication bidirectionnelle avec les appareils de terrain installés en zone explosible suivant le protocole HART®.

Mesure de température

Les amplificateurs de mesure de température sont utilisés pour la conversion de signaux générés par des sondes Pt100 ou thermocouples en signaux analogiques standard.

La température peut en principe être mesurée de deux manières:

1. Possibilité:

La sonde mesurant la température est raccordé sur un convertisseur en tête de sonde. A son tour, celui-ci est raccordé à un convertisseur de mesure.

2. Possibilité:

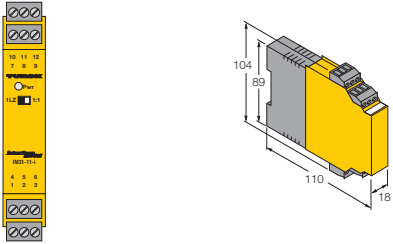
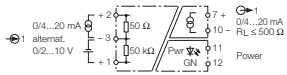
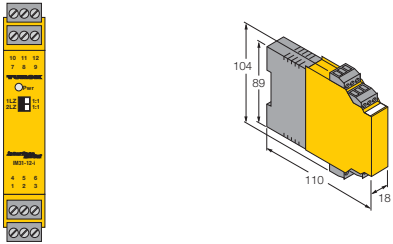
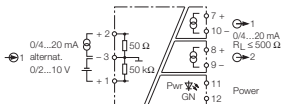
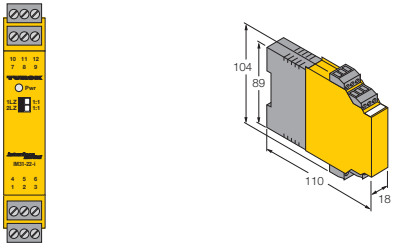
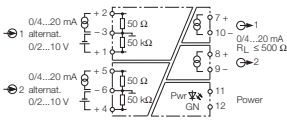
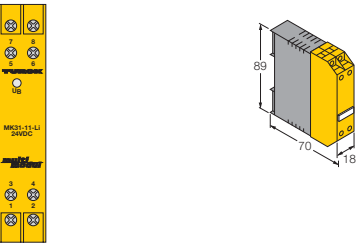
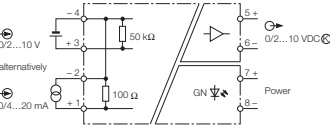
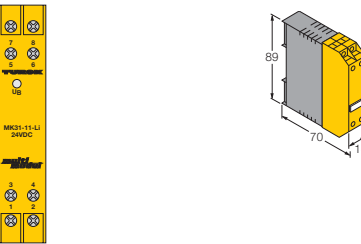
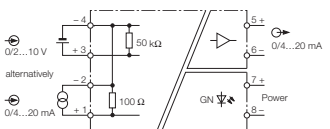
Le thermocouple ou le Pt100 est raccordé directement à un appareil de traitement.

Amplificateur pour potentiomètre

Les amplificateurs pour potentiomètre convertissent la valeur de résistance d'un potentiomètre en un signal standardisé. La résistance nominale du potentiomètre peut varier entre 800...20000 Ω. La résistance totale, de 0 Ω à la résistance nominale, peut être représentée sur la plage du signal analogique.



Interfacetechnik – Analogsignaltrenner
Interface technology – Analog data transmitters
Technique d'interface – Séparateurs de signaux analogiques

<p>Frontansicht und Abmessungen Front view and dimensions Vue frontale et dimensions [mm]</p>	<p>Blockschaltbild Circuit diagram Schéma fonctionnel</p>	<p>Funktionen Functions Fonctions (IEC 853)</p>	<p>Betriebs- spannung Operational voltage Tension de service [V]</p>	
			<p>20...250 VAC 20...250 VDC</p>	
			<p>20...250 VAC 20...250 VDC</p>	
			<p>20...250 VAC 20...250 VDC</p>	
			<p>19...29 VDC</p>	
			<p>19...29 VDC</p>	

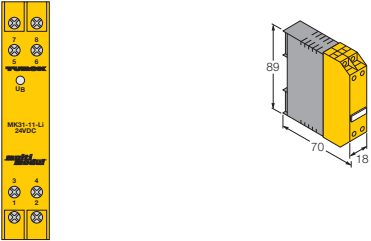
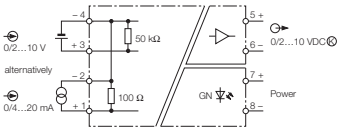
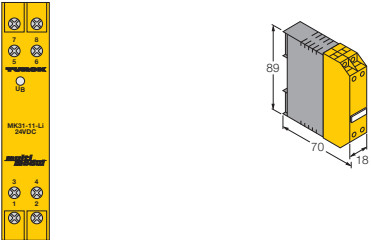
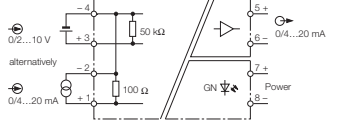
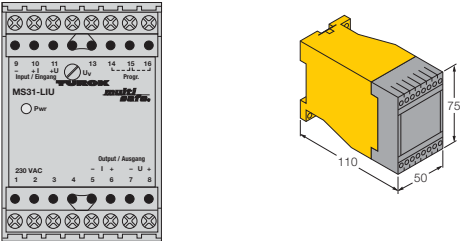
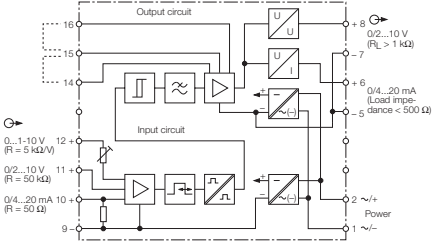
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description
IM31-11-I	7506323✘	5 Hz	Abziehbare Klemmenblöcke, ein Eingangskreis 0/2...10 V oder alternativ 0/4...20 mA, ein kurzschlussfester Ausgangskreis 0/4...20 mA, Ausgang auf Live-zero umschaltbar/ Removable terminal blocks, one input circuit 0/2...10 V or alternatively 0/4...20 mA, one short-circuit protected output circuit 0/4...20 mA, output can be set to live-zero operation/ Blocs de bornes débrochables, 1 circuit d'entrée 0/2...10 V ou alternativement 0/4...20 mA, un circuit de sortie protégé contre les courts-circuits 0/4...20 mA, sortie commutable sur Live-zéro
IM31-12-I	7506324✘	5 Hz	Abziehbare Klemmenblöcke, ein Eingangskreis 0/2...10 V oder alternativ 0/4...20 mA, zwei kurzschlussfeste Ausgangskreise 0/4...20 mA, Ausg. auf Live-zero umschaltbar/ Removable terminal blocks, one input circuit 0/2...10 V or alternatively 0/4...20 mA, two short-circuit protected output circuits 0/4...20 mA, outputs can be set to live-zero operation/ Blocs de bornes débrochables, 1 circuit d'entrée 0/2...10 V ou alternativement 0/4...20 mA, 2 circuits de sortie protégés contre les courts-circuits 0/4...20 mA, sortie commutable sur Live-zéro
IM31-22-I	7506325✘	5 Hz	Abziehbare Klemmenblöcke, zwei Eingangskreise 0/2...10 V oder alternativ 0/4...20 mA, zwei kurzschlussfeste Ausgangskreise 0/4...20 mA, Ausg. auf Live-zero umschaltbar/ Removable terminal blocks, two input circuits 0/2...10 V or alternatively 0/4...20 mA, two short-circuit protected output circuits 0/4...20 mA, outputs can be set to live-zero operation/ Blocs de bornes débrochables, 2 circuits d'entrée 0/2...10 V ou alternativement 0/4...20 mA, 2 circuits de sortie protégés contre les courts-circuits 0/4...20 mA, sortie commutable sur Live-zéro
MK31-11-LU/24VDC	7506202✘	5 Hz	1 : 1-Übertragung, 2 passive Eingänge (alternativ) für aktive Geber, 1 aktiver Ausgang/ 1 : 1 transfer, 2 passive inputs (alternatively) for active transmitters, 1 active output/ Transmission 1 : 1, 2 entrées passives (alternativement) pour transmetteurs actifs, 1 sortie active
MK31-111-LI/24VDC	7506103✘	5 Hz	Eingang Dead-zero, Ausgang Live-zero, 2 passive Eingänge (alternativ) für aktive Geber, 1 aktiver Ausgang/ Dead-zero input, live-zero output, 2 passive inputs (alternatively) for active transmitters, 1 active output/ Entrée Dead-zéro, sortie Live-zéro, 2 entrées passives (alternativement) pour transmetteurs actifs, 1 sortie active

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Analogsignaltrenner

Interface technology – Analog data transmitters

Technique d'interface – Séparateurs de signaux analogiques

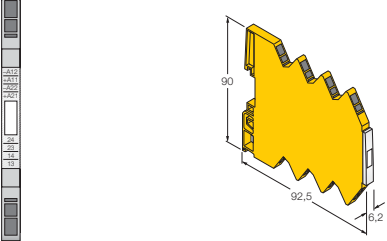

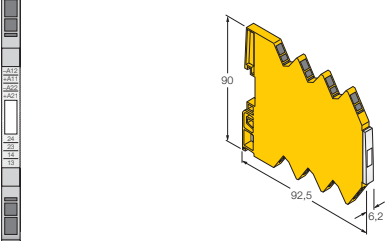

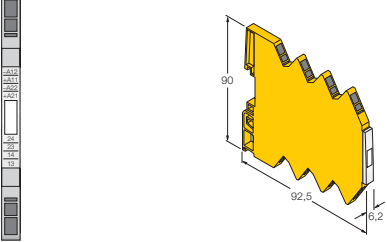

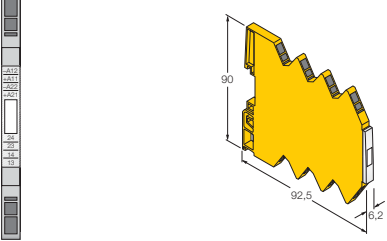
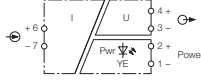
<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
			<p>19...29 VDC</p>	
			<p>19...29 VDC</p>	
			<p>184...264 VAC</p> <p>19.2...28.8 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description
MK31-112-LU/24VDC	7506204✘	5 Hz	Eingang Live-zero, Ausgang Dead-zero, 2 passive Eingänge (alternativ) für aktive Geber, 1 aktiver Ausgang/ Live-zero input, dead-zero output, 2 passive inputs (alternative) for active transmitters, 1 active output/ Entrée Live-zéro, sortie Dead-zéro, 2 entrées passives (alternativement) pour transmetteurs actifs, 1 sortie active
MK31-11-LI/24VDC	7506102✘	5 Hz	1 : 1-Übertragung, 2 passive Eingänge (alternativ) für aktive Geber, 1 aktiver Ausgang/ 1 : 1 transfer, 2 passive inputs (alternative) for active transmitters, 1 active output/ Transmission 1 : 1, 2 entrées passives (alternativement) pour transmetteurs actifs, 1 sortie active
MS31-LIU/230VAC MS31-LIU/24VDC	05310✘ 05317✘	5 Hz 5 Hz	Variabler Spannungseingang, 0/4...20 mA und 0/2...10 V, Übertragungsverhalten einstellbar, passive Eingänge für aktive Geber, aktiver Ausgang/ Variable voltage input, 0/4...20 mA and 0/2...10 V, adjustable transfer characteristics, passive inputs for active transmitters, active output/ Entrée tension variable 0/4...20 mA et 0/2...10 V, rapport de transmission réglable, entrées passives pour transmetteurs actifs, sortie active

Interfacetechnik/Interface Technology/
Technique d'interface

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Analogsignaltrenner
Interface technology – Analog data transmitters
Technique d'interface – Séparateurs de signaux analogiques

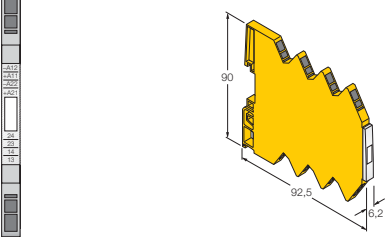

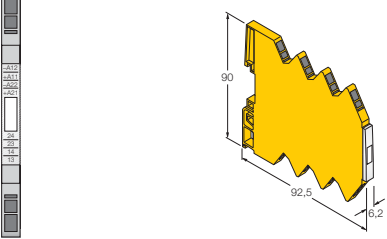

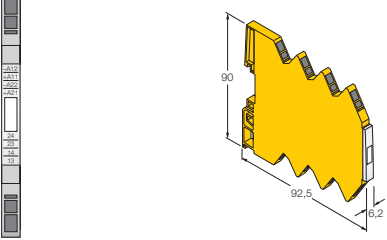

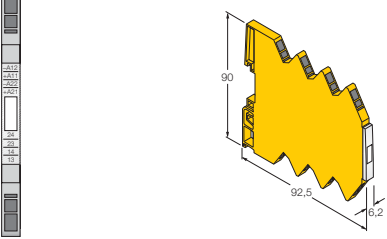

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebs- spannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
			<p>19...29 VDC</p>	
			<p>19...29 VDC</p>	
			<p>19...29 VDC</p>	
			<p>19...29 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description
IMS-AI-DU-DU/24VDC	7504000✘	30 Hz	<p>1 : 1 Übertragung, 1 x Eingangskreis von 0/2...10 V und 1 x kurzschlussfester Ausgangskreis 0/2...10 V/ 1 : 1 transfer, 1 x input circuit 0/2...10 V and 1 x short-circuit protected output circuit 0/2...10 V/ Transmission 1 : 1, 1 x circuit d'entrée de 0/2...10 V et 1 x circuit de sortie protégé contre les courts-circuits 0/2...10 V</p>
IMS-AI-DU-DI/24VDC	7504001✘	30 Hz	<p>1 x Eingangskreis von 0/2...10 V und 1 x kurzschlussfester Ausgangskreis 0/4...20 mA/ 1 x input circuit 0/2...10 V and 1 x short-circuit protected output circuit 0/4...20 mA/ 1 x circuit d'entrée de 0/2...10 V et 1 x circuit de sortie protégé contre les courts-circuits 0/4...20 mA</p>
IMS-AI-DU-LI/24VDC	7504002✘	30 Hz	<p>1 x Eingangskreis von 0/2...10 V und 1 x kurzschlussfester Ausgangskreis 4...20 mA/ 1 x input circuit 0/2...10 V and 1 x short-circuit protected output circuit 4...20 mA/ 1 x circuit d'entrée de 0/2...10 V et 1 x circuit de sortie protégé contre les courts-circuits 4...20 mA</p>
IMS-AI-DI-DU/24VDC	7504003✘	30 Hz	<p>1 x Eingangskreis von 0/4...20 mA und 1 x kurzschlussfester Ausgangskreis 0/2...10 V/ 1 x input circuit 0/4...20 mA and 1 x short-circuit protected output circuit 0/2...10 V/ 1 x circuit d'entrée de 0/4...20 mA et 1 x circuit de sortie protégé contre les courts-circuits 0/2...10 V</p>

Interfacetechnik/Interface Technology/
Technique d'interface

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Analogsignaltrenner
Interface technology – Analog data transmitters
Technique d'interface – Séparateurs de signaux analogiques

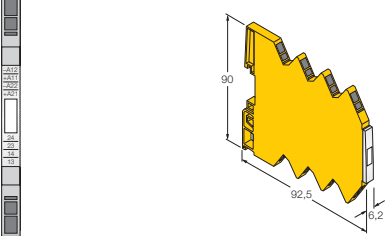

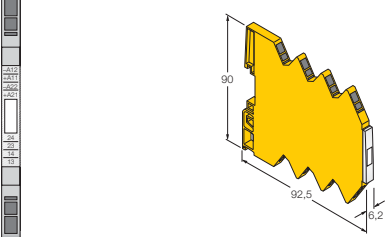

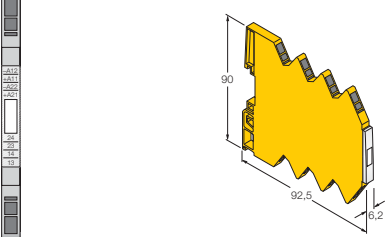

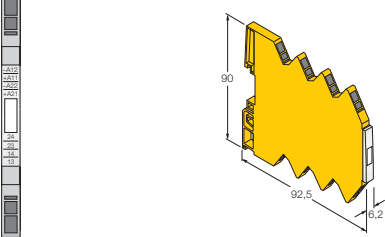

<p>Frontansicht und Abmessungen Front view and dimensions Vue frontale et dimensions [mm]</p>	<p>Blockschaltbild Circuit diagram Schéma fonctionnel</p>	<p>Funktionen Functions Fonctions (IEC 853)</p>	<p>Betriebs- spannung Operational voltage Tension de service [V]</p>	
			<p>19...29 VDC</p>	
			<p>19...29 VDC</p>	
			<p>19...29 VDC</p>	
			<p>19...29 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description
IMS-AI-DI-DI/24VDC	7504004✘	30 Hz	<p>1 : 1 Übertragung, galvanisch getrennt, 1 x Eingangskreis von 0/4...20 mA und 1 x kurzschlussfester Ausgangskreis 0/4...20 mA/ 1 : 1 transfer, galvanically isolated, 1 x input circuit 0/4...20 mA and 1 x short-circuit protected output circuit 0/4...20 mA/ Transmission 1 : 1, séparé galvaniquement, 1 x circuit d'entrée de 0/4...20 mA et 1 x circuit de sortie protégé contre les courts-circuits 0/4...20 mA</p>
IMS-AI-DI-LI/24VDC	7504005✘	30 Hz	<p>1 x Eingangskreis von 0/4...20 mA und 1 x kurzschlussfester Ausgangskreis 4...20 mA, galvanisch getrennt/ 1 x input circuit 0/4...20 mA and 1 x short-circuit protected output circuit 4...20 mA, galvanically isolated/ 1 x circuit d'entrée de 0/4 ... 20 mA et 1 x circuit de sortie protégé contre les courts-circuits 4...20 mA, séparé galvaniquement</p>
IMS-AI-LI-DU/24VDC	7504006✘	30 Hz	<p>1 x Eingangskreis von 4...20 mA und 1 x kurzschlussfester Ausgangskreis 0/2...10 V, galvanisch getrennt/ 1 x input circuit 4...20 mA and 1 x short-circuit protected output circuit 0/2...10 V, galvanically isolated/ 1 x circuit d'entrée de 4...20 mA et 1 x circuit de sortie protégé contre les courts-circuits 0/2...10 V, séparé galvaniquement</p>
IMS-AI-LI-DI/24VDC	7504007✘	30 Hz	<p>1 x Eingangskreis von 4...20 mA und 1 x kurzschlussfester Ausgangskreis 0/4...20 mA, galvanisch getrennt/ 1 x input circuit 4...20 mA and 1 x short-circuit protected output circuit 0/4...20 mA, galvanically isolated/ 1 x circuit d'entrée de 4...20 mA et 1 x circuit de sortie protégé contre les courts-circuits 0/4...20 mA, séparé galvaniquement</p>

Interfacetechnik/Interface Technology/
Technique d'interface

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Analogsignaltrenner
Interface technology – Analog data transmitters
Technique d'interface – Séparateurs de signaux analogiques

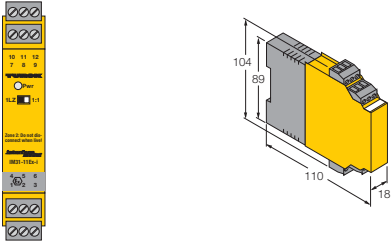
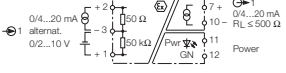
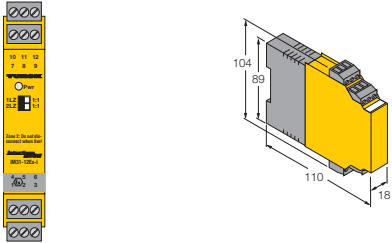
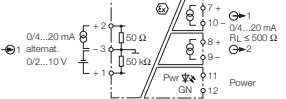
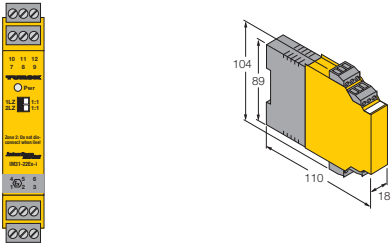

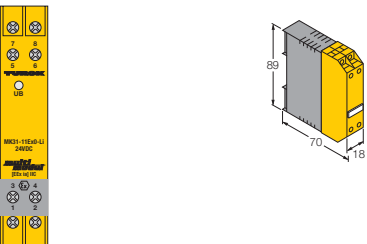
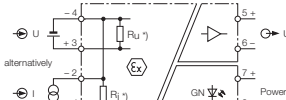
<p>Frontansicht und Abmessungen Front view and dimensions Vue frontale et dimensions [mm]</p>	<p>Blockschaltbild Circuit diagram Schéma fonctionnel</p>	<p>Funktionen Functions Fonctions (IEC 853)</p>	<p>Betriebs- spannung Operational voltage Tension de service [V]</p>	
			<p>19...29 VDC</p>	
			<p>19...29 VDC</p>	
			<p>Loop-Powered</p>	
			<p>Loop-Powered</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description
IMS-AI-LI-LI/24VDC	7504008✘	30 Hz	<p>1 : 1 Übertragung, galvanisch getrennt, 1 x Eingangskreis von 4...20 mA und 1 x kurzschlussfester Ausgangskreis 4...20 mA/ 1 : 1 transfer, galvanically isolated, 1 x input circuit 4...20 mA and 1 x short-circuit protected output circuit 4...20 mA/ Transmission 1 : 1, séparé galvaniquement, 1 x circuit d'entrée de 4...20 mA et 1 x circuit de sortie protégé contre les courts-circuits 4...20 mA</p>
IMS-AI-UNI/24VDC	7504009✘	30 Hz	<p>1 x variabler Eingangskreis von 0/4...20 mA oder 0/2...10 V und 1 x kurzschlussfester variabler Ausgangskreis 0/4...20 mA oder 0/2...10V, galvanisch getrennt, Einstellung von Eingangsart und Ausgangsart über DIP-Schalter/ 1 x variable input circuit 0/4...20 mA or 0/2...10 V and 1 x short-circuit protected output circuit 0/4...20 mA or 0/2...10 V, galvanically isolated, selection of Input and output mode via DIP switches/ 1 x circuit d'entrée variable de 0/4...20 mA ou 0/2...10 V et 1 x circuit de sortie variable protégé contre les courts-circuits 0/4...20 mA ou 0/2...10 V, séparé galvaniquement, réglage du type d'entrée et du type de sortie par interrupteur DIP</p>
IMS-AI-DLI-DLI/L	7504010✘	30 Hz	<p>1 : 1 Übertragung, galvanisch getrennt, 1 x Eingangskreis von 0/4...20 mA und 1 x kurzschlussfester Ausgangskreis 0/4...20 mA, schleifengepeist/ 1 : 1 transfer, galvanically isolated, 1 x input circuit 0/4...20 mA and 1 x short-circuit protected output circuit 0/4...20 mA, loop-powered Transmission 1 : 1, séparé galvaniquement, 1 x circuit d'entrée de 0/4...20 mA et 1 x circuit de sortie protégé contre les courts-circuits 0/4...20 mA, alimenté par boucle</p>
IMS-AI-DLI-22-DLI/L	7504011✘	30 Hz	<p>1 : 1 Übertragung, galvanisch getrennt, 2 x Eingangskreise von 0/4...20 mA und 2 x kurzschlussfeste Ausgangskreise 0/4...20 mA, schleifengepeist/ 1 : 1 transfer, galvanically isolated, 2 x input circuits 0/4...20 mA and 2 x short-circuit protected output circuits 0/4...20 mA, loop-powered/ Transmission 1 : 1, séparé galvaniquement, 2 x circuits d'entrée de 0/4...20 mA et 2 x circuits de sortie protégés contre les courts-circuits 0/4...20 mA, alimenté par boucle</p>

Interfacetechnik/Interface Technology/
Technique d'interface

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Analogsignaltrenner mit eigensicherem Eingang
Interface technology – Analog data transmitters with intrinsically safe input
Technique d'interface – Séparateurs de signaux analogiques à entrée à sécurité intrinsèque

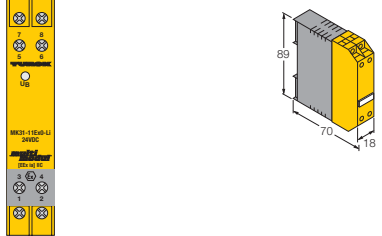
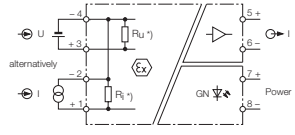
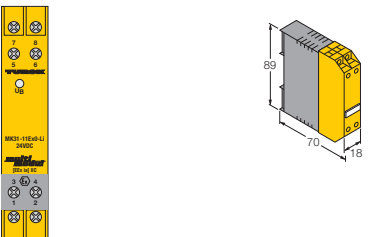
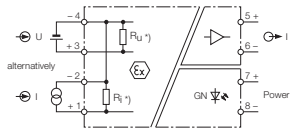
<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
			<p>20...250 VAC</p> <p>20...125 VDC</p>	
			<p>20...250 VAC</p> <p>20...125 VDC</p>	
			<p>20...250 VAC</p> <p>20...125 VDC</p>	
			<p>19...29 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
IM31-11EX-I	7506320 ^x	5 Hz	Ein Eingangskreis 0/2...10 V oder alternativ 0/4...20 mA, ein kurzschlussfester Ausgangskreis 0/4...20 mA, auf Live-zero umschaltbar/ One input circuit 0/2...10 V or alternatively 0/4...20 mA, one short-circuit protected output circuit 0/4...20 mA, adjustable to live-zero/ Circuit d'entrée 0/2...10 V ou alternativement 0/4...20 mA, un circuit de sortie protégé contre les courts-circuits 0/4...20 mA, sortie commutable sur Live-zéro	TÜV 04 ATEX 2679 ⊕ II (1) GD [EEx ia] IIC U ₀ = 7.2 V, I ₀ = 1 mA, P ₀ = 2 mW, linear	⊕
IM31-12EX-I	7506321 ^x	5 Hz	Ein Eingangskreis 0/2...10 V oder alternativ 0/4...20 mA, zwei kurzschlussfeste Ausgangskreise 0/4...20 mA, auf Live-zero umschaltbar/ One input circuit 0/2...10 V or alternatively 0/4...20 mA, two short-circuit protected output circuits 0/4...20 mA, adjustable to live-zero/ Circuit d'entrée 0/2...10 V ou alternativement 0/4...20 mA, deux circuits de sortie protégés contre les courts-circuits 0/4...20 mA, sortie commutable sur Live-zéro	TÜV 04 ATEX 2679 ⊕ II (1) GD [EEx ia] IIC U ₀ = 7.2 V, I ₀ = 1 mA , P ₀ = 2 mW, linear	⊕
IM31-22EX-I	7506322 ^x	5 Hz	Zwei Eingangskreise 0/2...10 V oder alternativ 0/4...20 mA, zwei kurzschlussfeste Ausgangskreise 0/4...20 mA, auf Live-zero umschaltbar/ Two input circuits 0/2...10 V or alternatively 0/4...20 mA, two short-circuit protected output circuits 0/4...20 mA, adjustable to live-zero/ Deux circuits d'entrée 0/2...10 V ou alternativement 0/4...20 mA, deux circuits de sortie protégés contre les courts-circuits 0/4...20 mA, sortie commutable sur Live-zéro	TÜV 04 ATEX 2679 ⊕ II (1) GD [EEx ia] IIC U ₀ = 7.2 V, I ₀ = 1 mA, P ₀ = 2 mW, linear	⊕
MK31-11EX0-LU/24VDC	7506205 ^x	5 Hz	1:1-Übertragung, 2 passive Eingänge (alternativ) für aktive Geber, 1 aktiver Ausgang/ 1-to-1 transfer, 2 passive inputs (altern.) for active transmitters, 1 active output/ Transmission 1 :1, 2 entrées passives (alternativement) pour transmetteurs actifs, 1 sortie active	PTB 97 ATEX 2104 ⊕ II (1) G [EEx ia] IIC U ₀ = 7.2 V, I ₀ = 1 mA, P ₀ = 2 mW, linear	⊕

Interfacetechnik/Interface Technology/
Technique d'interface

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Analogsignaltrenner mit eigensicherem Eingang
Interface technology – Analog data transmitters with intrinsically safe input
Technique d'interface – Séparateurs de signaux analogiques à entrée à sécurité intrinsèque

Frontansicht und Abmessungen Front view and dimensions Vue frontale et dimensions [mm]	Blockschaltbild Circuit diagram Schéma fonctionnel	Funktionen Functions Fonctions (IEC 853)	Betriebs- spannung Operational voltage Tension de service [V]	
			19...29 VDC	
			19...29 VDC	

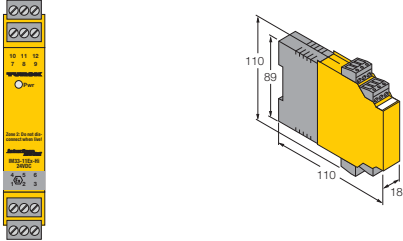
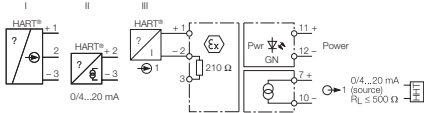
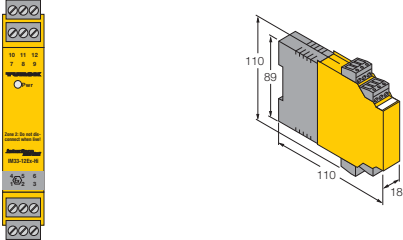
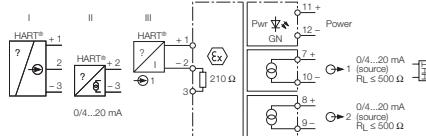
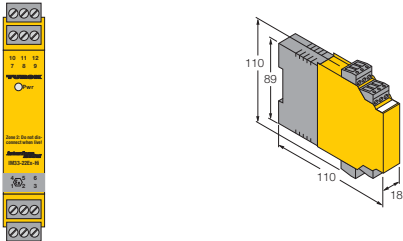
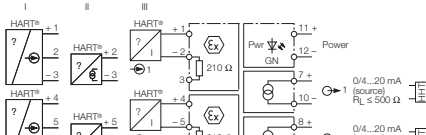
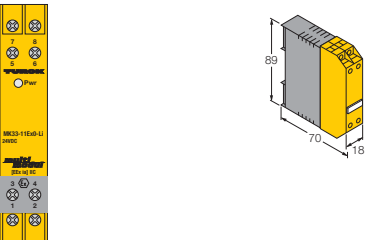
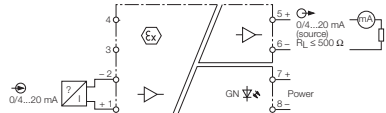
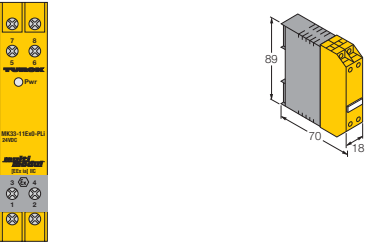

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
MK31-11EX0-LI/24VDC	7506005 ^x	5 Hz	1:1-Übertragung, 2 passive Eingänge (alternativ) für aktive Geber, 1 aktiver Ausgang/ 1-to-1 transfer, 2 passive inputs (altern.) for active transmitters, 1 active output/ Transmission 1:1, 2 entrées passives (alternativement) pour transmetteurs actifs, 1 sortie active	PTB 97 ATEX 2104 ⊕ II (1) G [EEx ia] IIC U ₀ = 7.2 V, I ₀ = 1 mA, P ₀ = 2 mW, linear	⊕
MK31-111EX0-LI/24VDC	7506010 ^x	5 Hz	Eingang Dead-zero, Ausgang Live-zero, 2 passive Eingänge (alternativ) für aktive Geber, 1 aktiver Ausgang/ Dead-zero input, live-zero output, 2 passive inputs (altern.) for active transmitters, 1 active output/ Entrée Dead-zéro, sortie Live-zéro, 2 entrées passives (alternativement) pour transmetteurs actifs, 1 sortie active	PTB 97 ATEX 2104 ⊕ II (1) G [EEx ia] IIC U ₀ = 7.2 V, I ₀ = 1 mA, P ₀ = 2 mW, linear	⊕




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Interfacetechnik – Messumformer-Speisetrenner

Interface technology – Isolating transducers

Technique d'interface – Convertisseurs de mesure-séparateurs d'alimentation

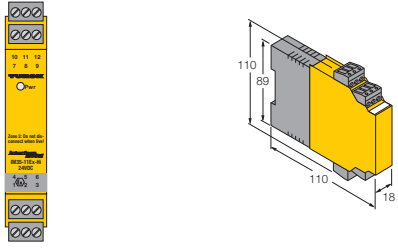
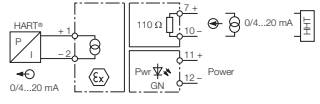
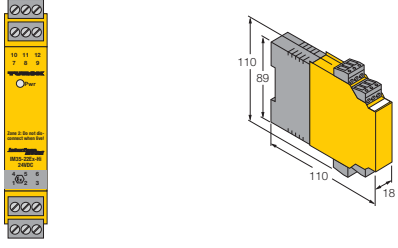
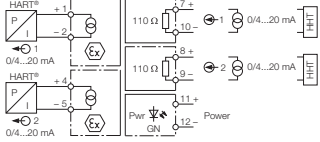
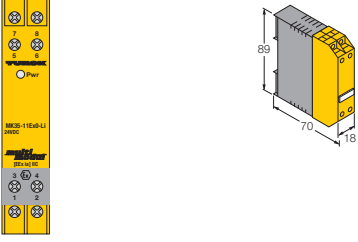
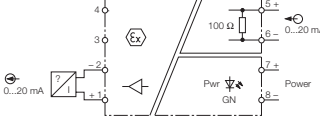
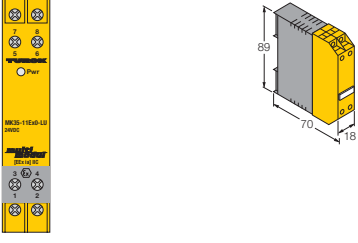
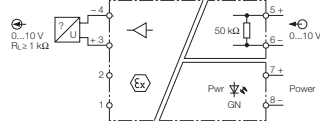
Frontansicht und Abmessungen Front view and dimensions Vue frontale et dimensions [mm]	Blockschaltbild Circuit diagram Schéma fonctionnel	Funktionen Functions Fonctions (IEC 853)	Betriebs- spannung Operational voltage Tension de service [V]	
		HART®	19...29 VDC	
		HART®	19...29 VDC	
		HART®	19...29 VDC	
			19...29 VDC	
			19...29 VDC	



Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
IM33-11EX-HI/24VDC	7506440 X	5 Hz	1:1-Übertragung, HART®-Protokoll transparent, allseitige galv. Trennung, Transmitter und passiver Eingang, 1 aktiver Ausgang/ 1:1 transfer, HART® protocol transparency, full galv. isolation, transmitter and passive input, 1 active output/ Transmission 1:1, transparence au protocole HART®, séparation galvanique entrée, sortie, alimentation, transmetteur et entrée passive, 1 sortie active	TÜV 00 ATEX 1595 ⊕ II (1) GD [EEx ia] IIC U ₀ = 21.9 V, I ₀ = 99.1 mA, P ₀ = 778 mW	⊕ 
IM33-12Ex-HI/24VDC	7506446 X	5 Hz	1:1-Übertragung, HART®-Protokoll transparent, allseitige galv. Trennung, Transmitter und passiver Eingang, 2 aktive Ausgänge/ 1:1 transfer, HART® protocol transparency, full galv. isolation, transmitter and passive input, 2 active outputs/Transmission 1:1, Transparence au protocole HART®, séparation galvanique entrée, sortie, alimentation, transmetteur et entrées passives, 2 sorties actives	TÜV 00 ATEX 1595 ⊕ II (1) GD [EEx ia] IIC U ₀ = 21.9 V, I ₀ = 99.1 mA, P ₀ = 778 mW	⊕ 
IM33-22EX-HI/24VDC	7506441 X	5 Hz	1:1-Übertragung, HART®-Protokoll transparent, allseitige galv. Trennung, Transmitter und passive Eingänge, 2 aktive Ausgänge/ 1:1 transfer, HART® protocol transparency, full galv. isolation, transmitter and 2 passive inputs, 2 active outputs/Transmission 1:1, transparence au protocole HART®, séparation galvanique entrée, sortie, alimentation, transmetteur et entrées passives, 2 sorties actives	TÜV 00 ATEX 1595 ⊕ II (1) GD [EEx ia] IIC U ₀ = 21.9 V, I ₀ = 99.1 mA, P ₀ = 778 mW	⊕ 
MK33-11EX0-LI/24VDC	7506402 X	5 Hz	1:1-Übertragung, Konstanzspannung am Transmitter, aktiver Ausgang/ 1:1 transfer, constant transmitter voltage, active output/ Transmission 1:1, tension constante au transmetteur, sortie active	TÜV 03 ATEX 2312 ⊕ II (1) GD [EEx ia] IIC U ₀ = 20 V, I ₀ = 77 mA, P ₀ = 560 mW	⊕
MK33-11EX0-PLI/24VDC	7506436 X	5 Hz	1:1-Übertragung, Konstanzspannung am Transmitter, passiver Ausgang/ 1:1 transfer, constant transmitter voltage, passive output/ Transmission 1:1, tension constante au transmetteur, sortie passive	TÜV 03 ATEX 2312 ⊕ II (1) GD [EEx ia] IIC U ₀ = 20 V, I ₀ = 77 mA, P ₀ = 560 mW	⊕

Interfacetechnik/Interface Technology/
Technique d'interface

X = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Analogsignaltrenner mit eigensicherem Ausgang
Interface technology – Analogue data transmitters with intrinsically safe output
Technique d'interface – Séparateurs de signaux analogiques à sortie à sécurité intrinsèque

<p>Frontansicht und Abmessungen Front view and dimensions Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild Circuit diagram Schéma fonctionnel</p>	<p>Funktionen Functions Fonctions</p> <p>(IEC 853)</p>	<p>Betriebs- spannung Operational voltage Tension de service</p> <p>[V]</p>	
		<p>HART®</p>	<p>19...29 VDC</p>	
		<p>HART®</p>	<p>19...29 VDC</p>	
			<p>19...29 VDC</p>	
			<p>19...29 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
IM35-11EX-HI/24VDC	7506516 x	5 Hz	1:1-Übertragung, 1 eigensich. aktiver Ausgang, 1 passiver Eing., HART®-Protokoll transparent/ 1:1 transfer, 1 I. S. active output circuit, 1 passive input, HART® protocol transparency/ Transmission 1:1, 1 sortie active à sécurité in- trinsèque, 1 entrée passive, transparence au protocole HART®	TÜV 03 ATEX 2311 ⊕ II (1) GD [EEx ia] IIC U ₀ = 15.9 V, I ₀ = 60 mA, P ₀ = 470 mW,	⊕ 
IM35-22EX-HI/24VDC	7506515 x	5 Hz	1:1-Übertragung, 2 eigensich. aktive Ausgänge, 2 passive Eing., HART®-Protokoll transparent/ 1:1 transfer, 2 I. S. active output circuits, 2 pass. inputs, HART® protocol transparency/ Transmission 1:1, 2 sorties actives à sécurité intrinsèque, 2 entrées passives, transparence au protocole HART®	TÜV 03 ATEX 2311 ⊕ II (1) GD [EEx ia] IIC U ₀ = 15.9 V, I ₀ = 60 mA, P ₀ = 470 mW,	⊕ 
MK35-11EX0-LI/24VDC	7506501 x	5 Hz	1:1-Übertragung, eigensich. aktiver Ausgang, passiver Eingang/ 1:1 transfer, intrins. safe output circuit, passive input/ Transmission 1:1, 1 sortie active à sécurité intrinsèque, entrée passive	TÜV 01 ATEX 1659 ⊕ II (1) GD [EEx ia] IIC U ₀ = 13.8 V, I ₀ = 61 mA	⊕
MK35-11EX0-LU/24VDC	7506701 x	5 Hz	1:1-Übertragung, eigensich. aktiver Ausgang, passiver Eingang/ 1:1 transfer, intrins. safe output circuit, passive input/ Transmission 1:1, 1 sortie active à sécurité intrinsèque, entrée passive	TÜV 01 ATEX 1659 ⊕ II (1) GD [EEx ia] IIC U ₀ = 13.8 V, I ₀ = 42 mA	⊕

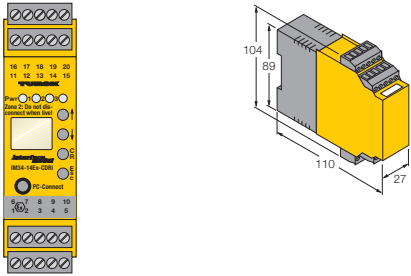
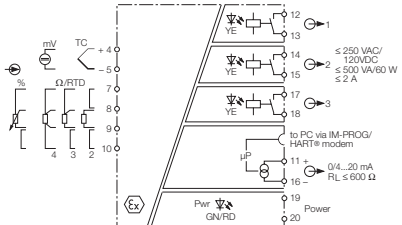
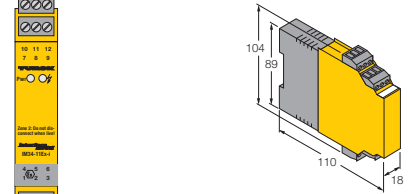

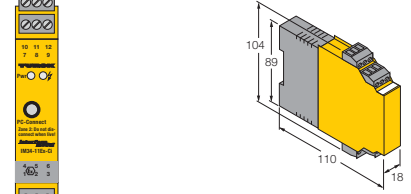
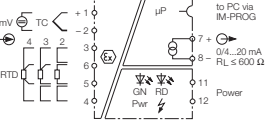
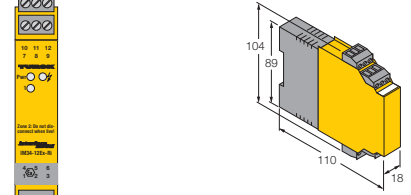
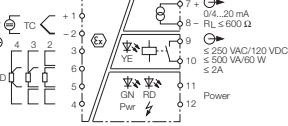
Interfacetechnik/Interface Technology/
Technique d'interface

x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Temperatur-Messverstärker

Interface technology – Temperature measuring amplifiers

Technique d'interface – Convertisseurs de température

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
		<p>FDT/DTM</p>	<p>20...250 VAC</p> <p>20...125 VDC</p>	
		<p>FDT/DTM</p>	<p>20...250 VAC</p> <p>20...125 VDC</p>	
		<p>FDT/DTM</p>	<p>20...250 VAC</p> <p>20...125 VDC</p>	
		<p>FDT/DTM</p>	<p>20...250 VAC</p> <p>20...125 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
IM34-14EX-CDRI	7506634 ^x	1 Hz	Messbereich u. Schalterpunkt einstellbar (T = -100...+1990 °C), int. oder ext. Kompensation, Leitungsabgleich, Wirkungsrichtung, PACTware™ parametr./ Adjustable range and switching point (T = -100...+1990 °C), int. or ext. compensation, line compensation, output mode, PACTware™ parameter./ Plage de mesure et point de commutation réglables, (T= -100...+ 1990 °C), compensation interne ou externe étalonnage du circuit, sens d'action, PACTware™ paramétrable	TÜV 05 ATEX 2877 ⊕ II (1) GD [EEx ia] IIC U ₀ = 5 V, I ₀ = 9 mA, P ₀ = 11mW, linear	⊕
IM34-11EX-I	7506630 ^x	1 Hz	Messbereich einstellbar (T = -100...+1990 °C), Schalter seitlich, int. oder ext. Kompensation, Leitungsabgleich/ Adjustable range (T = -100...+1990 °C), side switches, int. or ext. compensation, line compensation/ Plage de mesure réglable, (T= - 100...+ 1990 °C), réglage par interrupteur latéral, compensation interne ou externe, étalonnage du circuit	TÜV 02 ATEX 1898 ⊕ II (1) GD [EEx ia] IIC U ₀ = 5 V, I ₀ = 2 mA, P ₀ = 2.6 mW, linear	⊕
IM34-11EX-CI	7506633 ^x	1 Hz	Messbereich einstellbar (T = -100...+1990 °C), int. oder ext. Kompensation, Leitungsabgleich, PACTware™ parametr./ Adjustable range (T = -100...+1990 °C), int. or ext. compensation, line compensation, PACTware™ parameter./ Plage de mesure réglable, (T= -100...+1990 °C), compensation interne ou externe, étalonnage du circuit PACTware™ paramétrable	TÜV 02 ATEX 1898 ⊕ II (1) GD [EEx ia] IIC U ₀ = 5 V, I ₀ = 2 mA, P ₀ = 2.6 mW, linear	⊕
IM34-12EX-RI	7506631 ^x	1 Hz	Messbereich u. Schalterpunkt einstellbar (T = -100...+1990 °C), Schalter seitlich, int. oder ext. Kompensation, Leitungsabgleich, Wirkungsrichtung/ Adjustable range and switching point (T = -100...+1990 °C), side switches, int. or ext. compensation, line compensation, output mode/ Plage de mesure et point de commutation réglables, (T= -100...+ 1990 °C), réglage par interrupteur latéral, compensation interne ou externe, étalonnage du circuit, sens d'action	TÜV 02 ATEX 1898 ⊕ II (1) GD [EEx ia] IIC U ₀ = 5 V, I ₀ = 2 mA, P ₀ = 2.6 mW linear	⊕

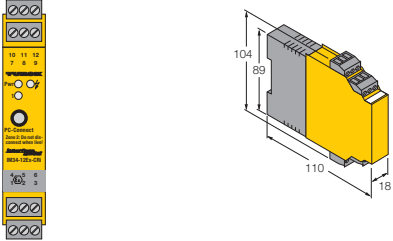
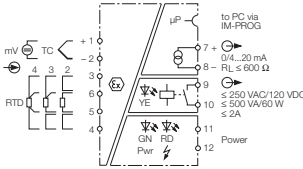

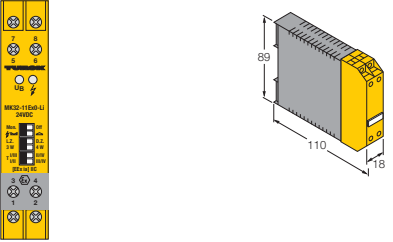
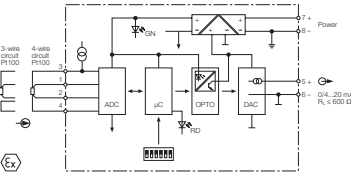

Interfacetechnik/Interface Technology/
Technique d'interface

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Temperatur-Messverstärker

Interface technology – Temperature measuring amplifiers

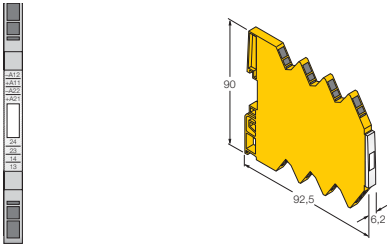
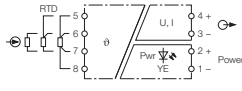

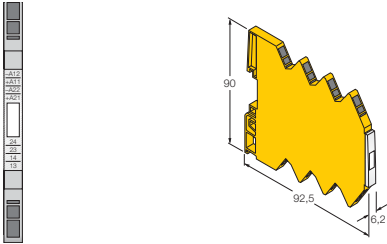
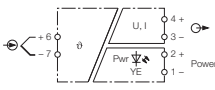

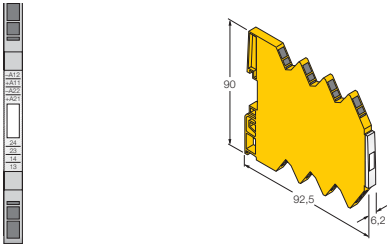
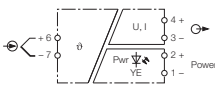

Technique d'interface – Convertisseurs de température

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
		<p>FDT/DTM</p> 	<p>20...250 VAC</p> <p>20...125 VDC</p>	
			<p>19...29 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
IM34-12EX-CRI	7506632 ^x	1 Hz	Messbereich u. Schalterpunkt einstellbar (T = -100...+1990 °C), int. oder ext. Kompensation, Leitungsabgleich, Wirkungsrichtung, PACTware™ parametr./ Adjustable range and switching point (T = -100...+1990 °C), int. or ext. compensation, line compensation, output mode, PACTware™ parameter./ Plage de mesure et point de commutation réglables, (T= -100...+ 1990 °C), compensation interne ou externe étalonnage du circuit, sens d'action, PACTware™ paramétrable	TÜV 02 ATEX 1898 ⊕ II (1) GD [EEx ia] IIC U ₀ = 5 V, I ₀ = 2 mA, P ₀ = 2.6, mW, linear	⊕
MK32-11EX0-LI/24VDC	7509005 ^x	1 Hz	Pt100-Messverstärker, Leitungsüberwachung, 4 festeingestellte Messbereiche, weitere auf Anfrage/ Pt100 measuring amplifier, line monitoring, 4 fixed measuring ranges, further ranges on request/ Amplificateur de mesure Pt100, surveillance du circuit d'entrée, 4 plages de mesure réglables, autres disponibles sur demande	PTB 98 ATEX 2014 ⊕ II (1) G [EEx ia] IIC U ₀ = 6.6 V, I ₀ = 2.5 mA, P ₀ = 5 mW	⊕

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

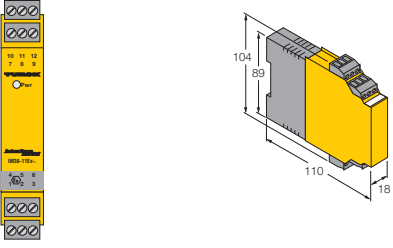
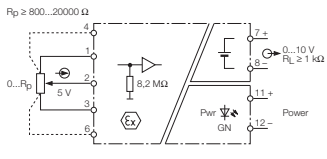
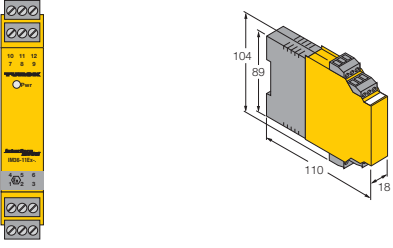
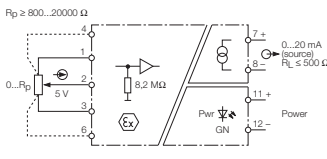
Interfacetechnik – Temperatur-Messverstärker
Interface technology – Temperature measuring amplifiers
Technique d'interface – Convertisseurs de température

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
			<p>19...29 VDC</p>	
			<p>19...29 VDC</p>	
			<p>19...29 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
IMS-TI-PT100/24VDC	7504012✘	10 Hz	Pt100-Messverstärker, Leitungsüberwachung, Einstellung und Anschlussart über DIP-Schalter/ Pt100 measuring amplifier, line monitoring, selection via DIP switches/ Amplificateur de mesure Pt100 surveillance du circuit d'entrée, réglage et type de raccordement par interrupteur DIP		
IMS-TI-J/24VDC	7504014✘	10 Hz	Temperatur-Messverstärker für TC Typ J Leitungsüberwachung, Einstellung des Messbereichs über DIP-Schalter/ Temperature measuring amplifier for TC Type J, line monitoring, selection of the measuring range via DIP switches/ Amplificateur de mesure pour TC type J surveillance du circuit d'entrée, réglage de la plage de mesure par interrupteur DIP		
IMS-TI-K/24VDC	7504015✘	10 Hz	Temperatur-Messverstärker für TC Typ K Leitungsüberwachung, Einstellung des Messbereichs über DIP-Schalter/ Temperature measuring amplifier for TC type K, line monitoring, selection of the measuring range via DIP switches/ Amplificateur de mesure pour TC type K surveillance du circuit d'entrée, réglage de la plage de mesure par interrupteur DIP		

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Potentiometerverstärker
Interface technology – Potentiometer amplifiers
Technique d'interface – Amplificateurs pour potentiomètre

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blackschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
			<p>19...29 VDC</p>	
			<p>19...29 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
IM36-11EX-U/24VDC	7509526 ^x	5 Hz	Anschluss in 3- oder 5 Leiter-Technik, der gesamte Nennwiderstandsbereich des Potentiometers wird am Ausgang abgebildet/ 3 or 5-wire connection, the full nominal resistance range of the potentiometer is reproduced at the output/ Raccordement en technique 3 ou 5 fils, plage de résistance nominale totale du potentiomètre disponible à la sortie	TÜV 99 ATEX 1405 ⊕ II (1) G [EEx ia] IIC U ₀ = 13.8 V, I ₀ = 35 mA, P ₀ = 121 mW, linear	⊕
IM36-11EX-I/24VDC	7509525 ^x	5 Hz	Anschluss in 3- oder 5 Leiter-Technik, der gesamte Nennwiderstandsbereich des Potentiometers wird am Ausgang abgebildet/ 3 or 5-wire connection, the full nominal resistance range of the potentiometer is reproduced at the output/ Raccordement en technique 3 ou 5 fils, plage de résistance nominale totale du potentiomètre disponible à la sortie	TÜV 99 ATEX 1405 ⊕ II (1) G [EEx ia] IIC U ₀ = 13.8 V, I ₀ = 35 mA, P ₀ = 121 mW, linear	⊕

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Signalauswerter

Die Überwachung von Prozessen durch Bildung von Grenzwerten ist eine bewährte Vorgehensweise.

TURCK stellt dazu das jeweils passende Gerät zur Verfügung – vom einfachen Grenzwertrelais bis zur parametrierbaren Prozessorkarte.

Ebenfalls im Lieferprogramm enthalten sind Impulszähler/Impulsuntersetzer sowie Verstärkerrelais mit Logikfunktion.

Kombigeräte in 19"-Technik zur Speisung von Transmittern oder zum Anschluss von Temperaturgebern finden Sie in unserem Katalog „Interfacetechnik auf 19“-Karte“.

Logic controllers

Control of industrial processes by means of limit value monitoring is a proven method.

For this purpose, there are simple devices with limit value relays or programmable processors cards available.

The range of logic controllers is complemented by pulse counters/pulse dividers and amplifier relays with logic functions.

Combined devices in 19" technology for transmitter supply or for connection of temperature sensors are contained in our separate catalogue "Interface Technology on 19" card".



Identificateurs de signaux

La surveillance de valeurs limites dans le process industriel est une procédure courante.

Pour ces opérations sont disponibles des appareils simples comme les relais à seuils ou des cartes à processeur programmables.

La famille des contrôleurs logiques comporte des compteurs/diviseurs d'impulsions et des amplificateurs relais avec fonctions logiques.

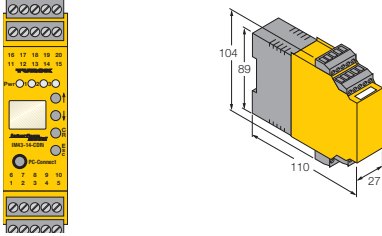
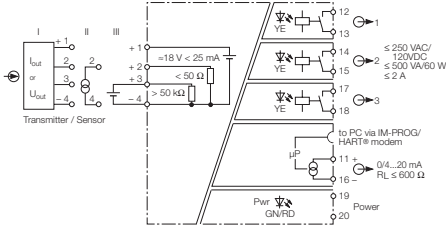

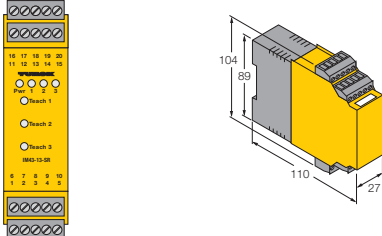
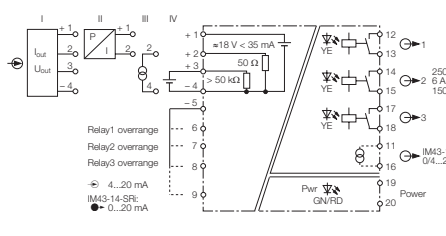
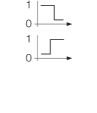
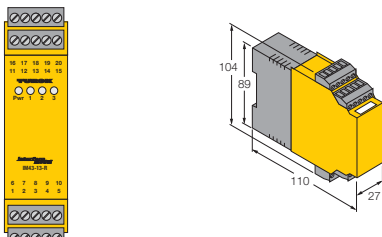
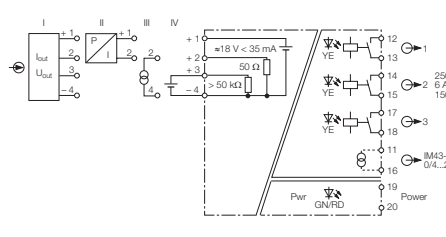
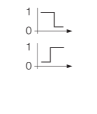
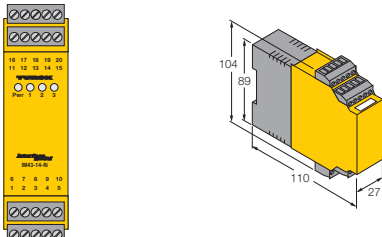
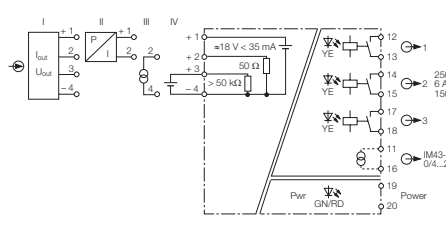
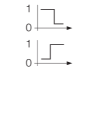
Des appareils combinés en technique 19" pour l'alimentation de transmetteurs ou le raccordement de sondes de température sont décrits dans le catalogue "Technique d'interface sur carte 19".



Interfacetechnik – Signalauswerter

Interface technology – Signal processors

Technique d'interface – Identificateurs de signaux

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blackschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
		 <p>FDT/DTM</p>	<p>20...250 VAC</p> <p>20...250 VDC</p>	
			<p>20...250 VAC</p> <p>20...250 VDC</p>	
			<p>20...250 VAC</p> <p>20...250 VDC</p>	
			<p>20...250 VAC</p> <p>20...250 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description
IM43-14-CDRI	7540045✘	10 Hz	Überwachung normierter Strom- und Spannungssignale auf Über- und Unterschreitung von einstellbaren Grenzwerten, 3 Grenzwertrelais und 1 Stromausgang, über FDT/DTM einstellbar, Display und Ringspeicher/ Monitoring of standard current and voltage signals for under- and overrange of adjustable limit values, 3 limit value relays and 1 current output, adjustable via coded FDT/DTM, display and ring buffer/ Surveillance des signaux de courant et de tension normalisés au dépassement des valeurs limites supérieures ou inférieures réglables, 3 relais de valeurs limites et 1 sortie courant, réglable par FDT/DTM, afficheur et mémoire annulaire
IM43-13-SR	7540041✘	10 Hz	Überwachung normierter Strom- und Spannungssignale auf Über- und Unterschreitung von einstellbaren Grenzwerten, 3 Grenzwertrelais, manuelle Teachfunktion/ Monitoring of standard current and voltage signals for under- and overrange of adjustable limit values, 3 limit value relays, manual teach function/ Surveillance des signaux de courant et de tension normalisés au dépassement des valeurs limites supérieures ou inférieures réglables, 3 relais de valeurs limites, fonction d'apprentissage manuelle
IM43-13-R	7540040✘	10 Hz	Überwachung normierter Strom- und Spannungssignale auf Über- und Unterschreitung von einstellbaren Grenzwerten, 3 Grenzwertrelais, über Drehcodierschalter einstellbar/ Monitoring of standard current and voltage signals for under- and overrange of adjustable limit values, 3 limit value relays, adjustable via coded rotary switch/ Surveillance des signaux de courant et de tension normalisés au dépassement des valeurs limites supérieures ou inférieures réglables, 3 relais de valeurs limites, réglable par interrupteur rotatif
IM43-14-RI	7540042✘	10 Hz	Überwachung normierter Strom- und Spannungssignale auf Über- und Unterschreitung von einstellbaren Grenzwerten, 3 Grenzwertrelais und 1 Stromausgang, über Drehcodierschalter einstellbar/ Monitoring of standard current and voltage signals for under- and overrange of adjustable limit values, 3 limit value relays and 1 current output, adjustable via coded rotary switch/ Surveillance des signaux de courant et de tension normalisés au dépassement des valeurs limites supérieures ou inférieures réglables, 3 relais de valeurs limites et 1 sortie courant, réglable par interrupteur rotatif

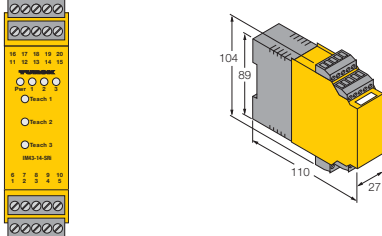
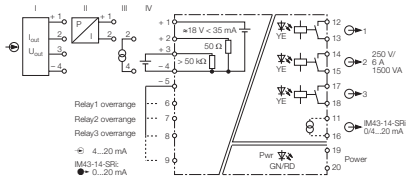

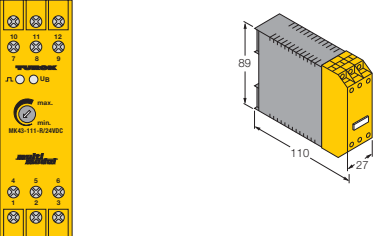
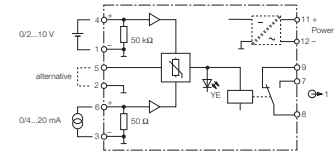

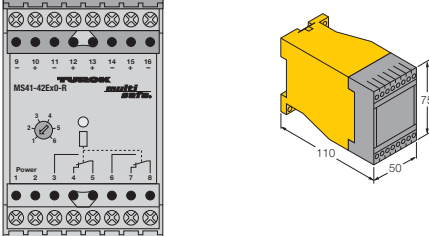
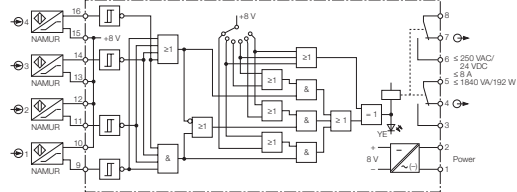
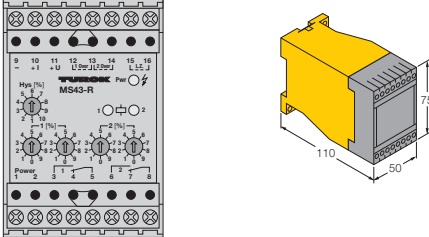
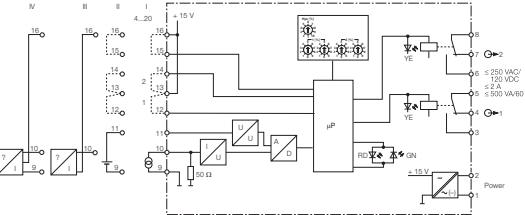

Interfacetechnik/Interface Technology/
Technique d'interface

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Signalauswerter

Interface technology – Signal processors

Technique d'interface – Identificateurs de signaux

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blackschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
 <p>Dimensions: 104mm height, 110mm width, 27mm depth.</p>	 <p>Relay 1 overvoltage Relay 2 overvoltage Relay 3 overvoltage 4...20 mA IM23-14-SR 0...20 mA</p>		<p>20...250 VAC</p> <p>20...250 VDC</p>	
 <p>Dimensions: 89mm height, 110mm width, 27mm depth.</p>	 <p>0/2...10 V alternative 0/4...20 mA</p>		<p>19...29 VDC</p>	
 <p>Dimensions: 110mm width, 75mm height, 50mm depth.</p>	 <p>8V Power</p>	<p>AND</p> <p>NAND</p> <p>OR</p> <p>NOR</p> <p>XOR</p> <p>XNOR</p>	<p>20...250 VAC</p> <p>20...125 VDC</p>	
 <p>Dimensions: 110mm width, 75mm height, 50mm depth.</p>	 <p>15V 4...20 mA Power</p>		<p>20...250 VAC</p> <p>20...250 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description
IM43-14-SRI	7540043✘	10 Hz	Überwachung normierter Strom- und Spannungssignale auf Über- und Unterschreitung von einstellbaren Grenzwerten, 3 Grenzwertrelais und 1 Stromausgang, über Drehcodierschalter einstellbar/ Monitoring of standard current and voltage signals for under- and overrange of adjustable limit values, 3 limit value relays and 1 current output, adjustable via coded rotary switch/ Surveillance des signaux de courant et de tension normalisés au dépassement des valeurs limites supérieures ou inférieures réglables, 3 relais de valeurs limites et 1 sortie courant, réglable par interrupteur rotatif
MK43-111-R/24VDC	7506907✘	10 Hz	1 Grenzwert, Schaltpunkteinstellung über Potentiometer, Wirkungsrichtungseinstellung über Drahtbrücke, Hysterese typ. 2,5 %, keine galvanische Trennung/ 1 limit value, switch-point adjustment via potentiometer, output mode adjustable via jumpers, typ. hysteresis 2.5 %, without galvanic isolation/ 1 valeur limite, réglage du point de commutation par potentiomètre, programmation du sens d'action par pontage, hystérésis typ. 2,5 %, pas de séparation galvanique
MS41-42EX0-R	5365701✘	10 Hz	Verstärkerrelais mit Logikfunktionen, einstellbar über frontseitigen Drehschalter, Relaisausgang/ Amplifier relay with logic functions, adjustable via rotary switch in the front panel, relay output/ Relais amplificateur avec fonctions logiques, réglable par interrupteur rotatif en face avant, sortie par relais
MS43-R	507012✘	10 Hz	2 unabhängig einstellbare Grenzwerte, Drehschaltereinstellung in 1-%-Schritten vom Messbereich, gesamte Hysterese 1...10 % in 1-%-Schritten, Wirkungsrichtungseinstellung jeweils über Drahtbrücken/ 2 independently adjustable limit values, rotary switch adjustment in increments of 1 % of the measuring range, output mode adjustments via jumpers/ 2 valeurs limites réglables l'une indépendamment de l'autre, réglage de l'interrupteur rotatif en pas de 1 % de la plage de mesure, hystérésis commune 1...10 % en pas de 1 %, programmation du sens d'action par pontage

Interfacetechnik/Interface Technology/
Technique d'interface

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Ventilsteuerbausteine

Eigensichere Stromversorgung

TURCK-Ventilsteuerbausteine stellen eine in Spannung und Strom begrenzte, galvanisch getrennte Speisespannung bereit. Typische Anwendungen sind z. B. die Ansteuerung eigensicherer Magnetventile, Leuchtmelder und die Versorgung von Transmittern.

Für die unterschiedlichsten Feldgeräte sind Bausteine mit den entsprechenden Ausgangsdaten verfügbar. Bei der Auswahl der Komponenten ist immer die Abstimmung der Betriebsdaten und Maximalwerte gemäß Zulassung erforderlich.

Im Katalog „Interfacetechnik im Aufbaugehäuse“ finden Sie Berechnungsbeispiele sowie ausführliche Kompatibilitätstabellen zu Geräten namhafter Ventilhersteller.

Valve control modules

Intrinsically safe power supply

These devices provide a current and voltage limited source of power. Typical applications are the control of intrinsically safe magnetic valves, indicators and the supply of transmitters.

There are several modules with different output data for the various solenoid makes available. To select the right device it is always important to ensure compliance of the valve's operating data and maximum values with the data specified in the certificate of conformity.

Our main catalog "Interface Technology in modular Housings" contains calculation examples and provides detailed compatibility charts of our devices with the products of renowned valve manufacturers.



Appareils de commande pour électrovannes

Alimentation à sécurité intrinsèque

Ces appareils fournissent une tension d'alimentation dont la tension et le courant sont limités et avec séparation galvanique entre entrée, sortie et alimentation extérieure. Des applications typiques sont p.ex. la commande d'électrovannes à sécurité intrinsèque et l'alimentation d'afficheurs et de transmetteurs.

Il existe de nombreux modèles avec des caractéristiques de sortie différentes adaptées aux modèles de vannes disponibles. Lors du choix des composants, la compatibilité des caractéristiques de fonctionnement et les valeurs maximales suivant le certificat d'homologation est requise.

Veuillez vous référer au catalogue „Technique d'interfaçage en boîtier modulaire“ (disponible en Anglais) pour des exemples de calcul, ainsi que pour des tableaux de compatibilité étendus sur les appareils de fabricants d'électrovannes renommés.












Interfacetechnik – Ventilsteuerbausteine

Interface technology – Solenoid drivers

Technique d'interface – Modules de commandes pour électrovannes

Frontansicht und Abmessungen Front view and dimensions Vue frontale et dimensions [mm]	Ausgangsspannung Output voltage Tension de sortie [V]	Ausgangsstrom Output current Courant de sortie [mA]	Kennlinie Characteristic curve Courbe caractéristique	Betriebsspannung Operational voltage Tension de service [V]	
	15/24 DC	35/45		19/35 DC	
	15/24 DC	35/45		19/35 DC	
	6/12 VDC	50		19/29 DC	
	6/12 VDC	50		19/29 DC	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
IM72-11Ex/L	7520703 ^x	500 Hz	TÜV 05 ATEX 2846  II (1) GD [EEx ia] IIC U ₀ = 27 V, I ₀ = 96 mA, P ₀ = 678 mW	 
IM72-22Ex/L	7520702 ^x	500 Hz	TÜV 05 ATEX 2846  II (1) GD [EEx ia] IIC U ₀ = 27 V, I ₀ = 96 mA, P ₀ = 678 mW	 
MK72-S01-EX/24VDC	7507005 ^x	250 Hz	PTB 99 ATEX 2116  II (2) G [EEx ib] IIC U ₀ = 15,8 V, I ₀ = 59,4 mA, P ₀ = 940 mW	
MK72-S01-EX/24VDC/FM	75070 ^x	250 Hz	Voc = 14,1 V, Isc= 108 mA, Class I-III, Div. 1, Group AB/CE/DFG Ca = 1/3/8 µF, La = 7/28/58 mH	

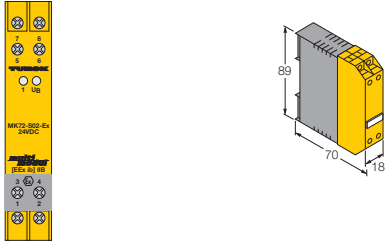
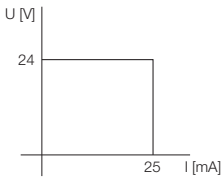
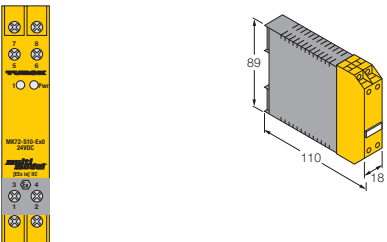
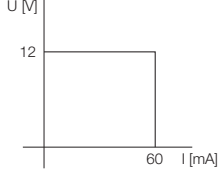
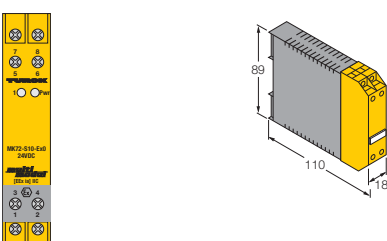
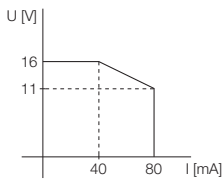
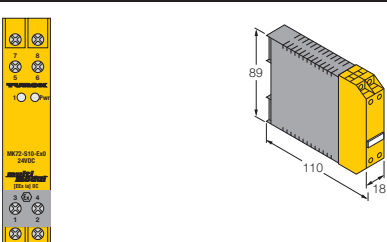
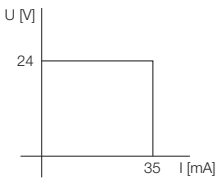
Interfacetechnik/Interface Technology/
Technique d'interface

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Ventilsteuerbausteine

Interface technology – Solenoid drivers

Technique d'interface – Modules de commandes pour électrovannes

Frontansicht und Abmessungen Front view and dimensions Vue frontale et dimensions [mm]	Ausgangsspannung Output voltage Tension de sortie [V]	Ausgangsstrom Output current Courant de sortie [mA]	Kennlinie Characteristic curve Courbe caractéristique	Betriebsspannung Operational voltage Tension de service [V]
	15/24 VDC	25		19/29 DC
	12 DC	60		19/35 DC
	16 DC	80		19/35 DC
	24 DC	35		19/35 DC

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
MK72-S02-EX/24VDC/FM	75072✘	250 Hz	Voc = 27,5 V, Isc= 79 mA, Class I-III, Div. 1, Group AB/CE/DFG Ca = 1/3/8 µF, La = 13/50/105 mH	⊕Ex
MK72-S10-EX0/24VDC	7507331✘	250 Hz	TÜV 00 ATEX 1553 ⊕Ex II (1) GD [EEx ia] IIC U ₀ = 17,4 V, I ₀ = 190,8 mA, P ₀ = 1350 mW, linear	⊕Ex
MK72-S13-EX0/24VDC	7507334✘	250 Hz	TÜV 00 ATEX 1553 ⊕Ex II (1) GD [EEx ia] IIC U ₀ = 17,4 V, I ₀ = 190,8 mA, P ₀ = 1350 mW, linear	⊕Ex
MK72-S19-EX0/24VDC	7507339✘	250 Hz	TÜV 00 ATEX 1553 ⊕Ex II (1) GD [EEx ia] IIC U ₀ = 17,4 V, I ₀ = 190,8 mA, P ₀ = 1350 mW, linear	⊕Ex

Interfacetechnik/Interface Technology/
Technique d'interface

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Koppelgeräte

Koppelgeräte erfüllen folgende Aufgaben:

- sichere galvanische Trennung von Signalen aller Art
- Pegelumsetzungen, z. B. von 24-VDC-Signalen in 230-VAC-Signale
- Störpegelunterdrückung
- Signalverstärkung, z. B. von schwach belastbaren Ausgängen

Den unterschiedlichen Anforderungen entsprechend gibt es folgende Gerätegruppen:

- Relaiskoppler
- Elektronikkoppler

Relaiskoppler – Eigenschaften:

- sichere galvanische Trennung zwischen Steuer- und Ausgangskreis
- großer Schaltleistungsbereich
- kein Leckstrom bei geöffnetem Kontaktkreis
- kaum Verluste bei geschlossenem Stromkreis
- Möglichkeit der Kontaktvervielfachung
- Sicherheitsapplikationen mit zwangsgeführten Kontakten möglich
- geringe Schaltfrequenz
- mechanische Lebensdauer > 20 Mio. Schaltspiele
- elektrische Lebensdauer von der Kontaktbelastung abhängig, bei maximaler Belastung ca. 1 Mio. Schaltspiele
- Geräte zum Schalten eigensicherer Stromkreise vorhanden

Elektronikkoppler – Eigenschaften:

- prellfreies Schalten
- verschleißfrei
- hohe Schaltfrequenz
- großer Steuerspannungsbereich
- kleiner Leckstrom

Verstärkerrelais

Verstärkerrelais dienen zur galvanisch getrennten Speisung von Zwei- und Dreidrahtsensoren. Anschließbar sind PNP-, NPN- und NAMUR-Sensoren sowie mechanische Kontakte. Auch zur Auswertung von Schaltzuständen und zur Verknüpfung mittels Boolescher Algebra stehen Geräte zur Verfügung.

Couplers and interface devices

Coupler devices are designed for:

- secure galvanic isolation of all kinds of signals
- signal level conversion, e.g. from 24 VDC into 230 VAC signals
- interference suppression
- signal amplification, e.g. from low-load outputs

Based on today's requirements, there are the following device groups:

- relay couplers
- electronic couplers

Relay couplers – features

- secure galvanic isolation between input and output circuit
- large switching range
- no leakage current in case of an open contact circuit
- hardly any losses in case of closed circuits
- optional contact multiplication
- safety applications with forced-guided contacts
- low switching frequency
- mechanical lifetime > 20 million switching operations
- electrical lifetime depending on contact load, 1 million switching operations at maximum load
- devices for switching of intrinsically safe circuits



Appareils de couplage

Electronic couplers – features

- bounce-free switching
- wear-free
- high switching frequency
- large control voltage range
- low leakage current

Amplifier relays

Amplifier relays are designed for galvanically isolated supply of 2- and 3-wire sensors. NAMUR, pnp, npn sensors and mechanical contacts are connectable. Additionally, there are devices for evaluation of switching states and with various logic functions based on boolean algebra.

Les appareils de couplage remplissent les tâches suivantes:

- séparation galvanique sûre de tous types de signaux
- transformation de signaux, p.ex. de 24 VDC en signaux 230 VAC
- suppression de signaux parasites
- amplification de signaux, p.ex. pour des sorties supportant des faibles charges

En fonction des exigences pratiques, les appareils de couplage sont utilisés comme:

- coupleurs à relais
- coupleurs électroniques

Caractéristiques des coupleurs électroniques

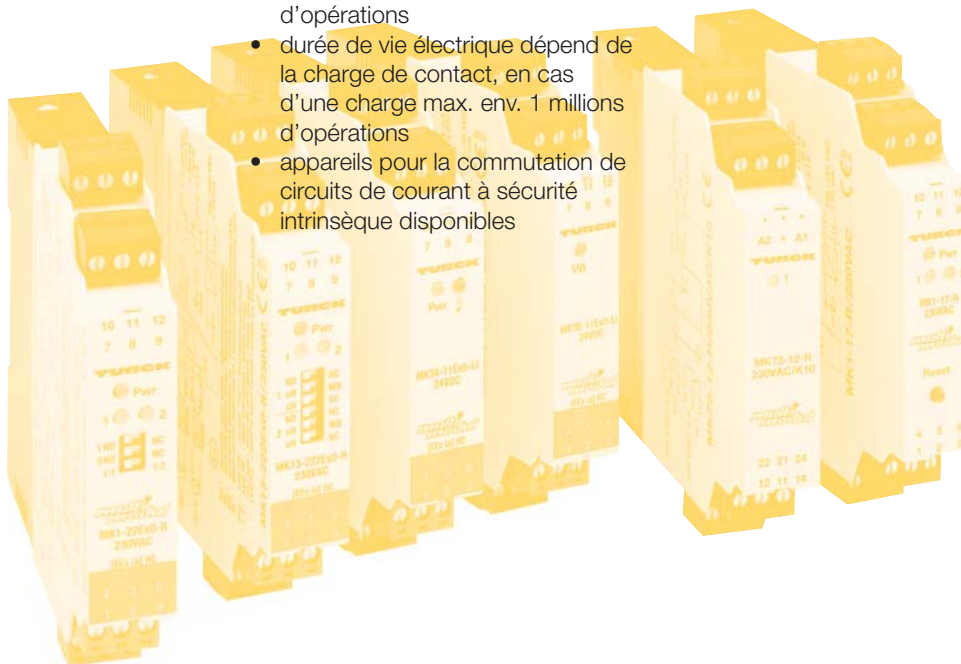
- commutation sans rebondissement
- sans usure
- fréquence de commutation élevée
- large plage de tension de commutation

Relais amplificateurs

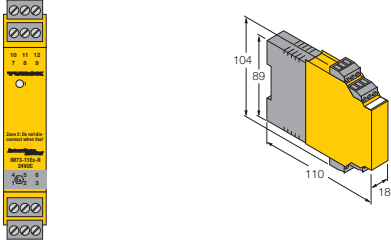
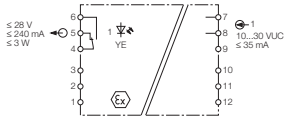
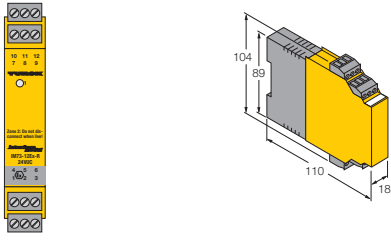
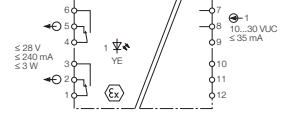
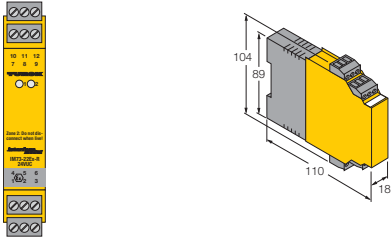
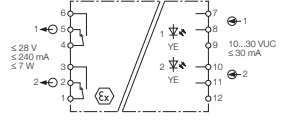
Les relais amplificateurs sont utilisés pour l'alimentation et l'isolement galvanique de détecteurs à deux ou trois fils. Des capteurs à sortie PNP, NPN, NAMUR ainsi que des contacts mécaniques peuvent être connectés. D'autres appareils permettent l'évaluation des signaux en intégrant des fonctions logiques.

Caractéristiques des coupleurs à relais

- séparation galvanique sûre entre circuit de commande et circuit de sortie
- large plage de puissance de commutation
- pas de courant de fuite en cas de circuit à contact ouvert
- peu de pertes en cas de circuit à contact fermé
- possibilité de multiplication des contacts
- applications de sécurité avec contacts à guidage forcé
- fréquence de commutation faible
- durée de vie mécanique > 20 millions d'opérations
- durée de vie électrique dépend de la charge de contact, en cas d'une charge max. env. 1 millions d'opérations
- appareils pour la commutation de circuits de courant à sécurité intrinsèque disponibles



Interfacetechnik – Koppelgeräte
Interface technology – Coupling and interface devices
Technique d'interface – Appareils de couplage

<p>Frontansicht und Abmessungen Front view and dimensions Vue frontale et dimensions [mm]</p>	<p>Blockschaltbild Circuit diagram Schéma fonctionnel</p>	<p>Funktionen Functions Fonctions (IEC 853)</p>	<p>Betriebs- spannung Operational voltage Tension de service [V]</p>	
			<p>19...28 VUC</p>	
			<p>19...28 VUC</p>	
			<p>19...28 VUC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description	Ex-Daten I.S. data Données SI [°C]	Zulassungen/ Bewertungen Approvals/ Assessment Certificats/ Évaluations
IM73-11Ex-R/24VUC	7520512 ^x	50 Hz	Eigensichere Kontaktstromkreise EEx ia oder energiebegrenzte Kontaktstromkreise Ex nL, Reed-Relais mit Rhodiumkontakten/ Intrinsicly save contact circuits EEx ia or power limited contact circuits Ex nL, reed relays with rhodiumcontacts/ Circuits de contact à sécurité intrinsèque EEx ia ou circuits de contact avec limitation d'énergie Ex nL, relais reed avec des contacts rhodium	BVS 03 ATEX E 335 ⊕ II (1) GD [EEx ia] IIC U _i = 28 V, I _i = 240 mA, P _i = 7 W	⊕
IM73-12Ex-R/24VUC	7520514 ^x	50 Hz	Eigensichere Kontaktstromkreise EEx ia oder energiebegrenzte Kontaktstromkreise Ex nL, Reed-Relais mit Rhodiumkontakten/ Intrinsicly save contact circuits EEx ia or power limited contact circuits Ex nL, reed relays with rhodiumcontacts/ Circuits de contact à sécurité intrinsèque EEx ia ou circuits de contact avec limitation d'énergie Ex nL, relais reed avec des contacts rhodium	BVS 03 ATEX E 335 ⊕ II (1) GD [EEx ia] IIC U _i = 28 V, I _i = 240 mA, P _i = 7 W	⊕
IM73-22Ex-R/24VUC	7520513 ^x	50 Hz	Eigensichere Kontaktstromkreise EEx ia oder energiebegrenzte Kontaktstromkreise Ex nL, Reed-Relais mit Rhodiumkontakten/ Intrinsicly save contact circuits EEx ia or power limited contact circuits Ex nL, reed relays with rhodiumcontacts/ Circuits de contact à sécurité intrinsèque EEx ia ou circuits de contact avec limitation d'énergie Ex nL, relais reed avec des contacts rhodium	BVS 03 ATEX E 335 ⊕ II (1) GD [EEx ia] IIC U _i = 28 V, I _i = 240 mA, P _i = 7 W	⊕

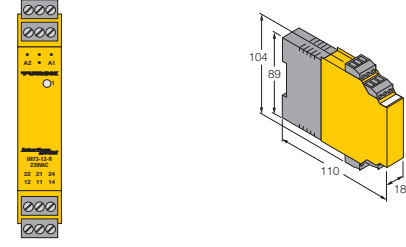
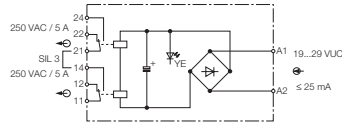
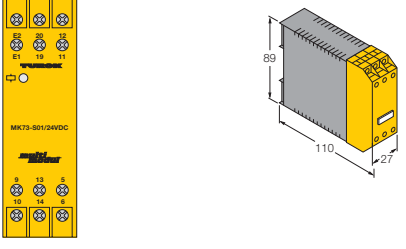
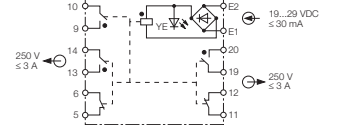
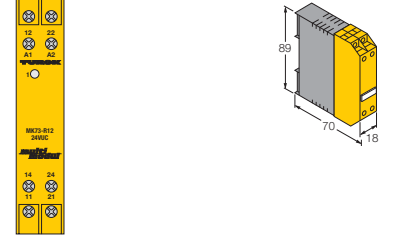
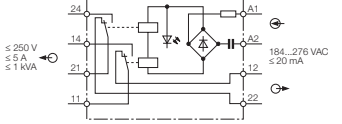
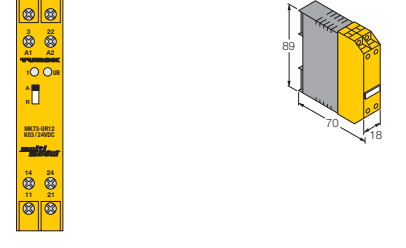
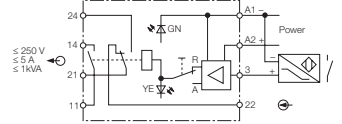
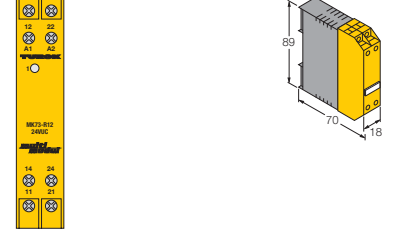
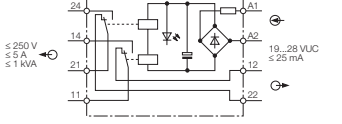
Interfacetechnik/Interface Technology/
Technique d'interface

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

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<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Steuer- spannung</p> <p>Input voltage</p> <p>Tension d'entrée</p> <p>[V]</p>	
 <p>Front view and dimensions of MK73-501. Dimensions: 104 mm height, 110 mm width, 18 mm depth. Terminal labels: A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100.</p>	 <p>Circuit diagram of MK73-501. Input: 250 VAC / 5 A, SIL 3. Output: 19...29 VUC, ≤ 25 mA.</p>		<p>19...28 VUC; 25 mA</p>	
 <p>Front view and dimensions of MK73-501/24VDC. Dimensions: 89 mm height, 110 mm width, 27 mm depth. Terminal labels: E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100.</p>	 <p>Circuit diagram of MK73-501/24VDC. Input: 250 V, ≤ 3 A. Output: 19...29 VDC, ≤ 30 mA.</p>		<p>19...29 VDC; 30 mA</p>	
 <p>Front view and dimensions of MK73-502. Dimensions: 89 mm height, 70 mm width, 18 mm depth. Terminal labels: A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100.</p>	 <p>Circuit diagram of MK73-502. Input: ≤ 250 V, ≤ 5 A, ≤ 1 kVA. Output: 184...276 VAC, ≤ 20 mA.</p>		<p>184...276 VAC; 20 mA</p>	
 <p>Front view and dimensions of MK73-502/8VDC. Dimensions: 89 mm height, 70 mm width, 18 mm depth. Terminal labels: A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100.</p>	 <p>Circuit diagram of MK73-502/8VDC. Input: ≤ 250 V, ≤ 5 A, ≤ 1 kVA. Output: 8 VDC, 8 mA.</p>	<p>NC NO</p>	<p>8 VDC; 8 mA</p>	
 <p>Front view and dimensions of MK73-502. Dimensions: 89 mm height, 70 mm width, 18 mm depth. Terminal labels: A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100.</p>	 <p>Circuit diagram of MK73-502. Input: ≤ 250 V, ≤ 5 A, ≤ 1 kVA. Output: 19...28 VUC, ≤ 25 mA.</p>		<p>19...28 VUC; 25 mA</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description
IM73-12-R/24VUC	7520712✘	5Hz	Hoher Schaltstrom, ein Steuereingang wirkt auf zwei synchrongesteuerte Relaiswechsler, Brückengleichrichter am Eingang, Isolation 8 mm/4 kV/ High switching current, one input drives two synchronous relay change-over contacts, bridge rectifier at input, isolation 8 mm/4 kV/ Courant de commutation élevé, une entrée de commande pilote deux contacts inverseurs, pont redresseur à l'entrée, isolation 8 mm/4 kV/
MK73-S01/24VDC	7524005✘	5Hz	Sicherheitsrelaiskoppler mit zwangsgeführten Kontaktpaaren, Brückengleichrichter am Eingang, Isolation 4 mm/2,5 kV/ Safety relay coupler with forced-guided contact pairs, bridge rectifier at input, isolation 4 mm/2.5 kV/ Coupleur à relais de sécurité à paires de contacts à guidage forcé, pont redresseur à l'entrée, isolation 4 mm/2,5 kV
MK73-R12/230VAC	75205✘	5Hz	Zwei synchrongesteuerte Ausgangswechsler, Isolation 4 mm/2 kV/ Two synchronous output change-over contacts, isolation 4 mm/2 kV/ Deux contacts inverseurs à commande synchrone, isolation 4 mm/2 kV
MK73-UR12/K03/24VDC	75203✘	5Hz	Ansteuerung über 2-Draht-NAMUR-Sensor möglich, Einstellung der Wirkungsrichtung über Schalter, Isolation 4 mm/2 kV/ 2-wire NAMUR sensors connectable, output mode selection via switch, isolation 4 mm/2 kV/ Commande par détecteur NAMUR 2 fils possible, programmation du sens d'action par interrupteur, isolation 4 mm/2 kV
MK73-R12/24VUC	75207✘	5Hz	Zwei synchrongesteuerte Ausgangswechsler, Isolation 4 mm/2 kV/ Two synchronous output change-over contacts, isolation 4 mm/2 kV/ Deux contacts inverseurs à commande synchrone, isolation 4 mm/2 kV

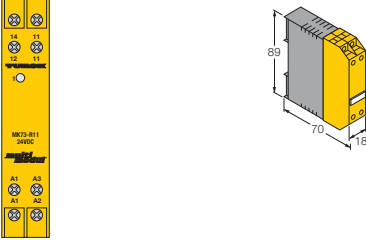
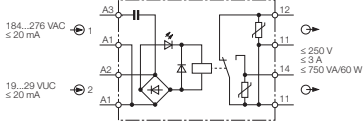
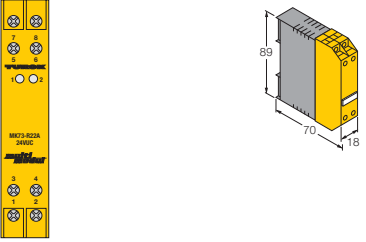
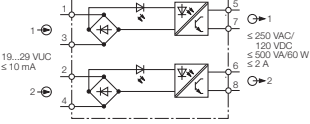
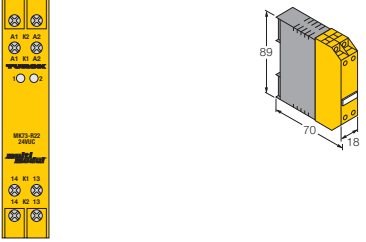
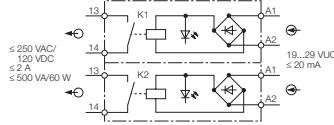
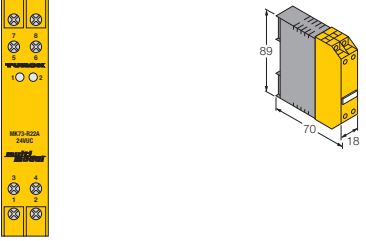
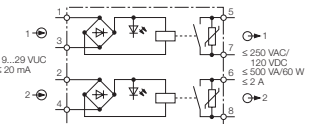
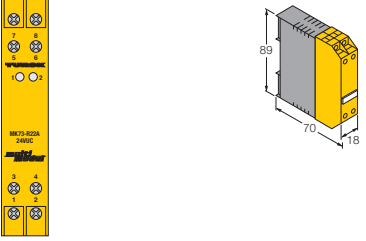
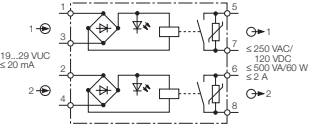
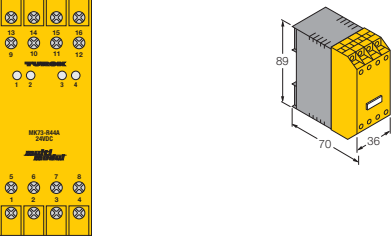
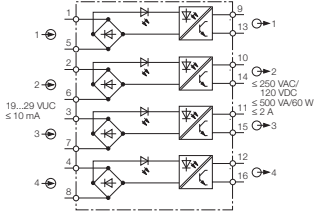
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Interface technology – Coupling and interface devices

Technique d'interface – Appareils de couplage

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Steuer- spannung</p> <p>Input voltage</p> <p>Tension d'entrée</p> <p>[V]</p>	
	 <p>184...276 VAC ≤ 20 mA</p> <p>19...29 VUC ≤ 20 mA</p> <p>≤ 250 V ≤ 2 A ≤ 750 VA/60 W</p>		<p>184...276 VAC, 20 mA</p> <p>19...29 VUC; 20 mA</p>	
	 <p>19...29 VUC ≤ 10 mA</p> <p>≤ 250 VAC/ 120 VDC ≤ 500 VA/60 W ≤ 2 A</p>		<p>19...29 VDC; 10 mA</p>	
	 <p>≤ 250 VAC/ 120 VDC ≤ 2 A ≤ 500 VA/60 W</p> <p>19...29 VUC ≤ 20 mA</p>		<p>19...29 VUC; 20 mA</p>	
	 <p>19...29 VUC ≤ 20 mA</p> <p>≤ 250 VAC/ 120 VDC ≤ 500 VA/60 W ≤ 2 A</p>		<p>19...29 VUC; 20 mA</p>	
	 <p>19...29 VUC ≤ 10 mA</p> <p>≤ 250 VAC/ 120 VDC ≤ 500 VA/60 W ≤ 2 A</p>		<p>19...29 VUC; 20 mA</p>	
	 <p>19...29 VUC ≤ 10 mA</p> <p>≤ 250 VAC/ 120 VDC ≤ 500 VA/60 W ≤ 2 A</p>		<p>19...29 VDC; 10 mA</p>	

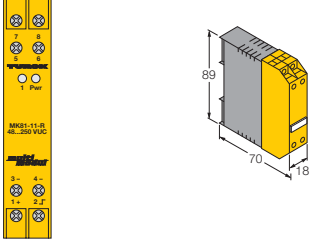
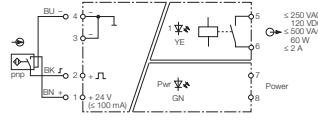
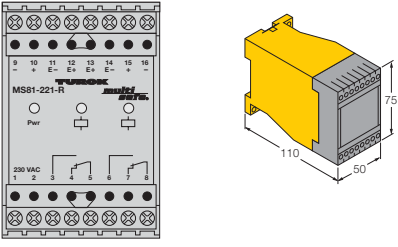
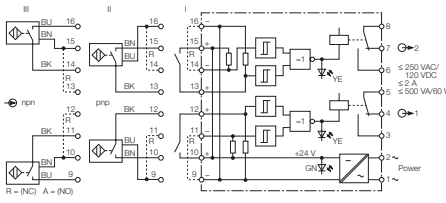
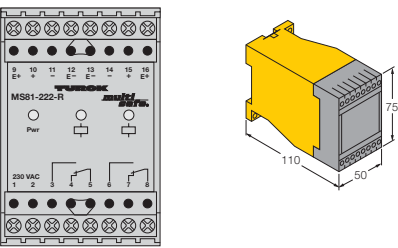
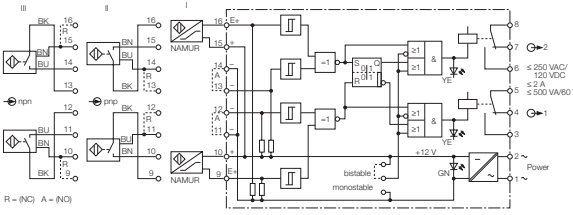
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description
MK73-R11/230VAC/24VUC	75201✘	5Hz	Ansteuerung für 230 VAC/24 VDC, Kontakte mit Varistoren als Schutz beschaltet, Brückengleichrichter am Eingang, Isolation 4 mm/2 kV/ Input for 230 VAC/24 VDC, varistor-protected contacts, bridge rectifier at input, isolation 4 mm/2 kV Commande pour 230 VAC/24 VDC, contacts équipés de varistors pour la protection, pont redresseur à l'entrée, isolation 4 mm/2 kV
MK73-T22A/24VDC	7530124✘	20000Hz	2-kanaliger Transistorkoppler, Brückengleichrichter am Eingang, Isolation 4 mm/2 kV/ 2-channel transistor coupler, bridge rectifier at input, isolation 4 mm/2 kV/ Coupleur transistorisé à 2 canaux, pont redresseur à l'entrée, isolation 4 mm/2 kV
MK73-R22/24VUC	75200✘	5Hz	2-kanaliger Relaiskoppler, Brückengleichrichter am Eingang, Isolation 4 mm/2 kV/ 2-channel relay coupler, bridge rectifier at input, isolation 4 mm/2 kV/ Coupleur relais à 2 canaux, pont redresseur à l'entrée, isolation 4 mm/2 kV
MK73-R22A/24VUC	7530024✘	5Hz	2-kanaliger Relaiswechsler, Kontakte mit Varistoren beschaltet, Brückengleichrichter am Eingang, Isolation 4 mm/2 kV/ 2-channel change-over relay, varistor protected contacts, bridge rectifier at input, isolation 4 mm/2 kV/ Coupleur relais à 2 canaux, contacts équipés de varistors, pont redresseur à l'entrée, isolation 4 mm/2 kV
MK73-R22E/24VUC	7530004✘	5Hz	2-kanaliger Relaiswechsler, Kontakte mit Varistoren beschaltet, Brückengleichrichter am Eingang, Isolation 4 mm/2 kV/ 2-channel change-over relay, varistor protected contacts, bridge rectifier at input, isolation 4 mm/2 kV/ Coupleur relais à 2 canaux, contacts équipés de varistors, pont redresseur à l'entrée, isolation 4 mm/2 kV
MK73-T44A/24VDC	7530164✘	20000Hz	4-kanaliger Transistorkoppler, Brückengleichrichter am Eingang, Isolation 4 mm/2 kV/ 4-channel transistor coupler, bridge rectifier at input, isolation 4 mm/2 kV/ Coupleur transistorisé à 4 canaux, pont redresseur à l'entrée, isolation 4 mm/2 kV

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Verstärkerrelais

Interface technology – Amplifier relays

Technique d'interface – Relais amplificateurs

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
 <p>MSS1-11-R RL-250 VAC</p> <p>89 70 18</p>	 <p>BU- 4 BK 3 BN 2 GN 1 (+24 V) (6-100 mA)</p> <p>YE 5 Pwr 6 GN 7 Power 8</p> <p>≤ 250 VAC/ 120 VDC ≤ 500 VA/ 60 W ≤ 2 A</p>		<p>48 ... 250 VUC</p>	
 <p>MSS1-221-R</p> <p>230 VAC 1 2 3 4 5 6 7 8</p> <p>110 75 50</p>	 <p>BU- 15 BK 14 BN 13 GN 9</p> <p>YE 8 Pwr 7 GN 6 Power 5</p> <p>≤ 250 VAC/ 120 VDC ≤ 5 A ≤ 500 VA/60 W</p> <p>R = (NC) A = (NO)</p>	<p>NC NO</p>	<p>98...132 VAC 196...253 VAC</p>	
 <p>MSS1-222-R</p> <p>230 VAC 1 2 3 4 5 6 7 8</p> <p>110 75 50</p>	 <p>BU- 15 BK 14 BN 13 GN 9</p> <p>YE 8 Pwr 7 GN 6 Power 5</p> <p>≤ 250 VAC/ 120 VDC ≤ 2 A ≤ 500 VA/60 W</p> <p>bi-stable mono-stable</p> <p>R = (NC) A = (NO)</p>	<p>NC NO</p>	<p>98...132 VAC 184...264 VAC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description
MK81-11-R/48...250VUC	7545013✘	10 Hz	Speise und Auswertegerät, Abfrage und Versorgung von 3-Draht-Sensoren, Sensorversorgung: 24 VDC, 100 mA, Relaisausgang/ power supply and processor device, monitoring and supply of 3-wire sensors, sensor supply: 24 VDC, 100 mA, relay output/ Appareil d'alimentation et de traitement, détection et alimentation de détecteurs 3 fils, alimentation du détecteur: 24 VDC, 100 mA, sortie par relais
MS81-221-R/230VAC	5121✘	10 Hz	Verstärkerrelais, bistabile Arbeitsweise einstellbar, Sensorversorgung 12 V, 2 x 20 mA/ Relay amplifier, selectable bistable operating mode, sensor supply 12 V, 2 x 20 mA/ Relais amplificateur, mode de fonctionnement bistable programmable, alimentation du détecteur 12 V, 2 x 20 mA
MS81-222-R/230VAC	511100✘	10 Hz	Verstärkerrelais mit 1:1-Übertragung und 8 Logikfunktionen, Sensorversorgung 12 V, 2 x 20 mA/ Relay amplifier with 1-to-1 transfer characteristic and 8 logic functions, sensor supply 12 V, 2 x 20 mA/ Relais amplificateur avec transmission 1 :1 et 8 fonctions logiques, alimentation du détecteur 12 V, 2 x 20 mA

Interfacetechnik/Interface Technology/
Technique d'interface

✘ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Stromversorgungen

Netzteile

Netzteile dienen zum Umsetzen der Netzwechselfspannung auf eine 24-V-Gleichspannung. Das Leistungsspektrum reicht von 100 mA zur Versorgung speziell von Optosensoren bis zum 5-A-Leistungsnetzteil.

Alle Produkte sind kurzschlussfest und können parallel geschaltet werden. Das Lieferprogramm wird ergänzt durch Geräte zur Spannungsüberwachung und Zubehör (z. B. Diodentrennkarten).

Power supplies

Power supplies

Power supplies serve to convert AC supply voltages into 24 V direct voltage. The available power supply types range from 100 mA devices for supply of photo-electric sensors up to high power versions with 5 A.

This line of devices features short-circuit protection and may be connected in series. Voltage monitoring devices and accessories such as diode isolator cards complement this range.



Appareils d'alimentation

Blocs d'alimentation

Les blocs d'alimentation permettent de transformer la tension alternative en une tension continue de 24 V.

La gamme d'alimentations à courant continu couvre des besoins allant de 100 mA (par ex. pour l'alimentation de détecteurs photoélectriques) jusqu'à 5 A.

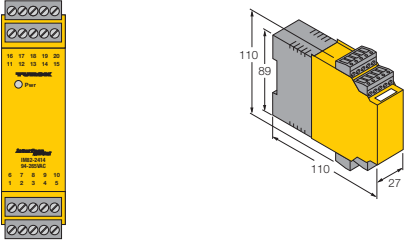
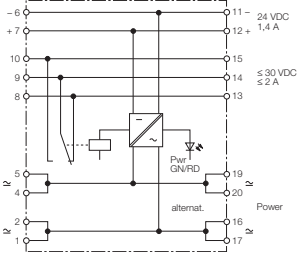
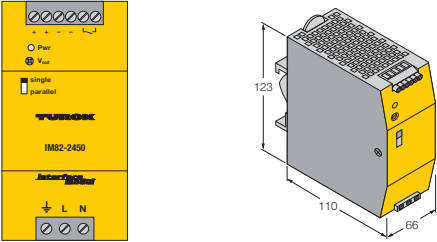
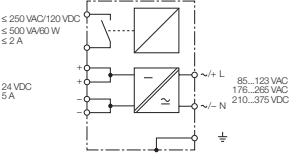
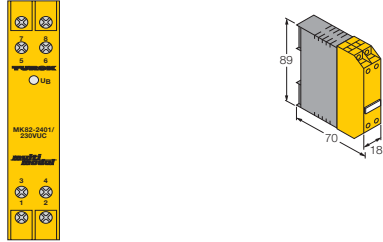
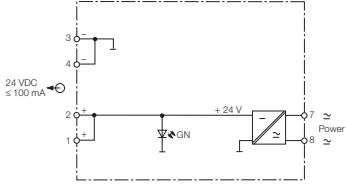
Tous ces appareils disposent d'une protection contre les court-circuits et peuvent être connectés en parallèle. Des appareils pour la surveillance de tension ainsi que des accessoires tels que des cartes d'isolement sont aussi disponibles.



Interfacetechnik – Stromversorgung

Interface technology – Power supply

Technique d'interface – Alimentation

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(IEC 853)</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
			<p>94...265 VAC</p>	
			<p>90...132 VAC</p> <p>210...375 VDC</p>	
			<p>48...250 VAC</p> <p>48...375 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description
IM82-2414/94-265VAC	7545023 ^x		<p>Stromversorgung 24 VDC (± 3 %), 1400 mA, Restwelligkeit < 1 %, „Power-Good“-Relais, Sicherheitskleinspannung (EN 60950), UL- und CSA-Zulassung, taktender Überlastschutz > 1600 mA/ 24 VDC (± 3 %) power supply, 1400 mA, ripple < 1 %, „Power Good“ relay, extra-low safety voltage (EN 60950), UL and CSA approval, pulsed overload protection > 1600 mA/ Alimentation 24 VDC (± 3 %), 1400 mA, taux d'ondulation < 1 %, relais "Power-Good", tension inférieure (EN 60950), homologation UL et CSA, protection synchrone contre les surcharges > 1600 mA</p>
IM82-2450	7545025 ^x		<p>Stromversorgung 24 VDC (± 3 %), 5000 mA, Ausgangsspannung einstellbar von 22,5...28,5 VDC, „Power-Good“-Relais, Sicherheitskleinspannung (EN 60950), Einzel- oder Parallelbetrieb möglich/ Power supply 24 VDC (± 3 %), 5000 mA, adjust. output voltage from 22.5...28.5 VDC, "Power Good" relays, safety extra low voltage (EN 60950), individual or parallel operation possible/ Alimentation 24 VDC (± 3 %), 5000 mA, tension de sortie réglable de 22,5...28,5 VDC, relais "Power-Good", tension inférieure (EN 60950), fonctionnement individuel ou parallèle possible</p>
MK82-2401/230VUC	7545022 ^x		<p>Stromversorgung 24 VDC (± 3 %), 100 mA, Restwelligkeit < 3 %, rastende elektronische Sicherung bei Überlast > 130 mA/ 24 VDC (± 3 %) power supply, 100 mA, ripple < 3 %, latching electronic overload protection > 130 mA/ Alimentation 24 VDC (± 3 %), 100 mA, taux d'ondulation < 3 %, protection électronique aux courts-circuits et surcharges au-delà de >130 mA</p>

Interfacetechnik/Interface Technology/
Technique d'interface

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Niveauwächter

Niveauwächter werden dort benötigt, wo Füllstände von leitenden Flüssigkeiten zu überwachen und zu regeln sind. Typische Anwendungen sind z. B. die Getränkeabfüllung mit sicherer Unterscheidung von Schaum und Flüssigkeiten.

Überwachen und Regeln von Füllständen

Mit Niveauwächtern nach dem konduktiven Messprinzip (Leitwertmessung) lassen sich grundsätzlich alle Flüssigkeiten mit Wasseranteil überwachen. Dazu wird der Medienwiderstand zwischen zwei in die Flüssigkeit eingetauchten Elektroden als Messgröße herangezogen. Da Schaum eine schlechtere Leitfähigkeit als die Flüssigkeit hat, ist eine sichere Unterscheidung möglich. Um Ablagerungen zu vermeiden, wird als Sondenspannung eine Wechselspannung benutzt.

Die Leitfähigkeit von Flüssigkeiten unterliegt je nach Zusammensetzung und Konzentration erheblichen Streuungen. Der zwischen den Tauchelektroden resultierende Medienwiderstand ist zudem von der Benetzungsfläche und dem Abstand der Elektroden abhängig. TURCK-Niveauwächter lassen sich daher über einen großen Ansprecbereich einstellen. Für unruhige Flüssigkeitsspiegel ist eine Schaltverzögerung vorgesehen.

Applikationsbeispiel

In der Überwachungsfunktion schützen die Niveauwächter vor Überlauf oder Trockenlauf. Für die Überwachung werden zwei Tauchelektroden oder eine Tauchelektrode und ein Masseanschluss an einer leitfähigen Behälterwand benötigt. In einer Zweipunktregelung eingesetzt, übernimmt der Niveauwächter auch die Ansteuerung von Pumpen und Ventilen. Damit die Zweipunktregelung vollständig realisierbar ist, verfügen die Geräte über Reedrelais, mit denen die aktive Sonde automatisch zugeschaltet wird. Für die Zweipunktregelung werden drei Tauchelektroden oder zwei Tauchelektroden und ein Masseanschluss an einer leitfähigen Behälterwand benötigt.

Tauchelektrode

Als Tauchelektrode kann jedes metallische Objekt verwendet werden. Je nach Flüssigkeit ist die Beständigkeit zu prüfen. Isolierende Ablagerungen schränken die Funktion ein. TURCK empfiehlt für alle TURCK-Geräte die Tauchelektrode EL 1/1.

Level controls

Level controls are designed for those applications where the levels of conductive liquids have to be monitored. Typical applications are, for example, monitoring of liquid levels in bottling lines. Additionally, these devices securely distinguish between foam and liquid.

Monitoring and control of liquid levels

Level controls based on the conductive measurement principle (conductivity measurement) are suited to measure all liquids with a certain water content. The medium resistance between two electrodes, which are immersed in the liquid, is measured. A secure distinction is possible, because the conductivity of foam is lower than that of liquids. In order to avoid deposit build-up, the sensing probes feature an AC voltage.

The conductivity of liquids depends largely on the concentration and composition of the liquid and can vary considerably. The medium resistance between the two immersion probes also depends on the wetting surface and the distance between the two electrodes. TURCK level controls can thus be adjusted over a large operating range. A switching delay is implemented for irregular liquid levels.



Contrôleurs de niveaux

Application example

TURCK level controls are designed for run-dry and overflow protection. The monitoring task is accomplished with two insertion electrodes or one electrode and bonding to the conductive wall of the container. In a two-step control application, the level control can also be used to drive pumps and valves. In order to solve a two-step control application, the devices are equipped with a reed relay to switch the active probe automatically. In a two-step control set-up, three electrodes and bonding to the conductive wall of the container is required.

Insertion electrodes

Any metal object can be used as an insertion probe. Depending on the type of liquid, it may be necessary to check its chemical resistance. Isolating deposits on the electrodes may impair their function. TURCK recommends the insertion electrode EL 1/1 for all TURCK devices.

Les contrôleurs de niveau sont utilisés pour la surveillance et la régulation de niveau de liquides conducteurs. Les applications typiques sont par exemple les installations de remplissage de boissons dans laquelle le contrôleur doit faire une distinction entre la mousse et le liquide.

Surveillance et régulation de niveau

Les contrôleurs de niveau fonctionnant selon le principe de la mesure conductrice (mesure de conductibilité) sont capables de surveiller tous les liquides contenant une quantité d'eau quelconque. Dans ce but la résistance du liquide entre deux électrodes plongées dans ce liquide est prise comme élément de mesure. La mousse ayant une conductivité plus mauvaise que le liquide permet une distinction fiable. Afin d'éviter des sédimentations, une tension alternative est utilisée entre les électrodes.

La conductivité des liquides est l'objet d'importantes variations en fonction de la composition et de la concentration. La résistance du liquide obtenue entre les électrodes immergées est en relation directe avec la surface de l'électrode et la distance entre les électrodes. C'est pourquoi les contrôleurs de niveaux TURCK sont réglables dans une plage de détection très large. Il a été prévu spécialement pour des surfaces de liquides instables la possibilité d'un retard au déclenchement.

Exemple d'application

Les contrôleurs de niveaux protègent contre le débordement ou le fonctionnement à sec. La surveillance est réalisée par deux électrodes immergées ou par une électrode immergée et un raccordement à la terre à une paroi de réservoir conductible. Si le contrôleur de niveaux est utilisé dans une régulation deux points, il assure également la commande de pompes et d'électrovannes. Pour réaliser entièrement la régulation deux points, les appareils disposent de relais Reed qui permettent à l'électrode active de commuter automatiquement.

La régulation deux points requiert trois électrodes immergées ou deux électrodes immergées et un raccordement à la terre à une paroi de réservoir conductible.

Electrode immergée

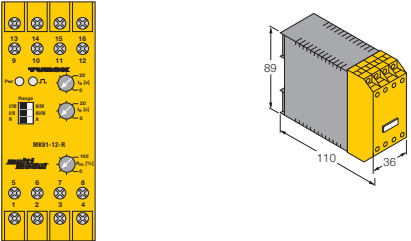
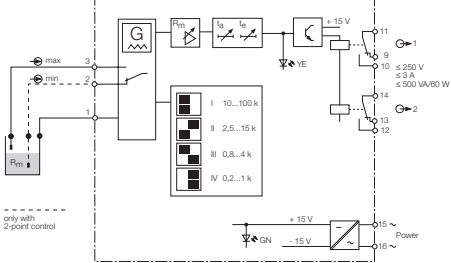
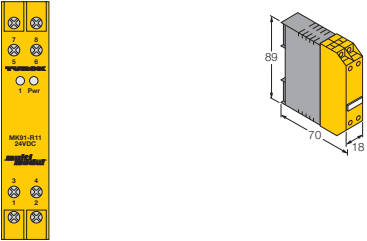
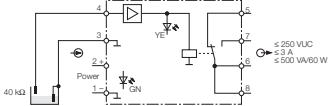
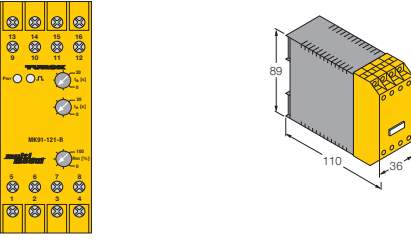
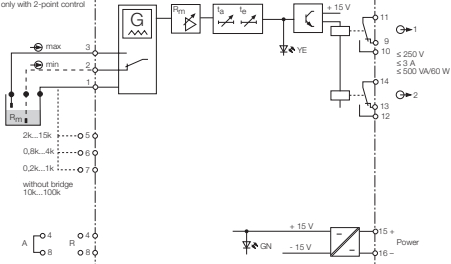
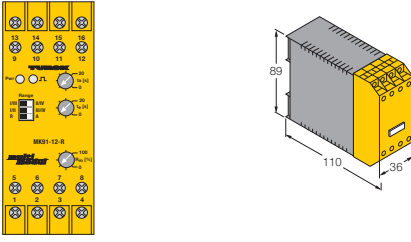
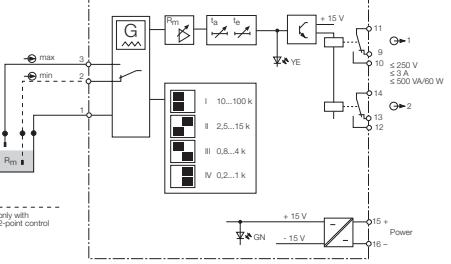
Chaque objet métallique peut être utilisé comme électrode immergée. En fonction du liquide, la résistance est à vérifier. La fonction est limitée par des sédiments isolants. TURCK recommande pour tous les appareils TURCK l'électrode d'immersion EL 1/1.



Interfacetechnik – Niveauwächter

Interface technology – Level controls

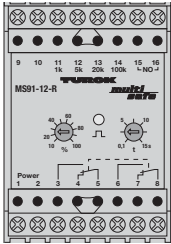
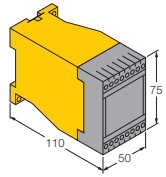
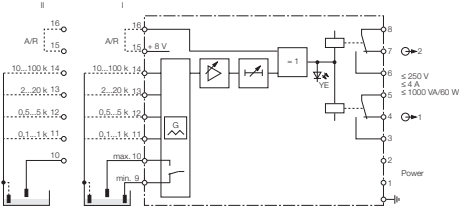
Technique d'interface – Contrôleurs de niveaux

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p>	<p>Betriebsspannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
		<p>853</p>	<p>184...264 VAC</p>	
			<p>19...29 VDC</p>	
			<p>20...28 VDC</p>	
			<p>20...28 VDC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description
MK91-12-R/230VAC	7545070 ^x	5 Hz	Wirkungsrichtung, Ein- und Ausschaltverzögerung (0...20 s) separat einstellbar, Empfindlichkeitsbereich des Schaltpunktes (0,2...100 kΩ) über DIP-Schalter einstellbar, min./max. Niveauerkennung oder Zweipunktregelung/ Output mode, switch-on and switch-off delay (0...20 s) separately adjustable, switch-point sensitivity (0.2...100 kΩ), min./max. level detection or two-step control/ Sens d'action, retard à l'enclenchement/au déclenchement (0...20 s), réglable séparément, plage de sensibilité du point de commutation (0,2...100 kΩ) réglable par interrupteur DIP, reconnaissance du niveau min./max. ou régulation deux points
MK91-R11/24VDC	7525202 ^x	5 Hz	keine galvanische Trennung, Relais erregt bei einem Widerstand < 40 kΩ zwischen den Tauchelektroden, Verzögerung ca. 10 s/ Without galvanic isolation, relay energised if resistance < 40 kΩ between insertion electrodes, delay approx. 10 s/ Pas de séparation galvanique, relais excité pour une résistance < 40 kΩ entre les électrodes d'immersion, temporisation env. 10 s
MK91-121-R/24VDC	7545087 ^x	5 Hz	Wirkungsrichtung, Ein-Ausschaltverzögerung (0...20 s) separat einstellbar, Empfindlichkeitsbereich des Schaltpunktes (0,2...100 kΩ) über Anschlussklemmen einstellbar, min./max. Niveauerkennung oder Zweipunktregelung/ Output mode, switch-on and switch-off delay (0...20 s) separately adjustable, switch-point sensitivity (0.2...100 kΩ), min./max. level detection or two-step control/ Sens d'action, retard à l'enclenchement/au déclenchement (0...20 s), réglable séparément, plage de sensibilité du point de commutation (0,2...100 kΩ) réglable par bornes de raccordement, reconnaissance du niveau min./max. ou régulation deux points
MK91-12-R/24VDC	7545077 ^x	5 Hz	Wirkungsrichtung, Ein-Ausschaltverzögerung (0...20 s) separat einstellbar, Empfindlichkeitsbereich des Schaltpunktes (0,2...100 kΩ) über DIP-Schalter einstellbar, min./max. Niveauerkennung oder Zweipunktregelung/ Output mode, switch-on and switch-off delay (0...20 s) separately adjustable, switch-point sensitivity (0.2...100 kΩ), min./max. level detection or two-step control/ Sens d'action, retard à l'enclenchement/au déclenchement (0...20 s), réglable séparément, plage de sensibilité du point de commutation (0,2...100 kΩ) réglable par bornes de raccordement, reconnaissance du niveau min./max. ou régulation deux points

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

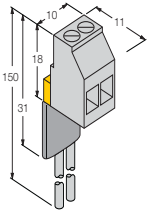
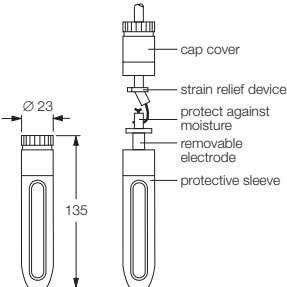
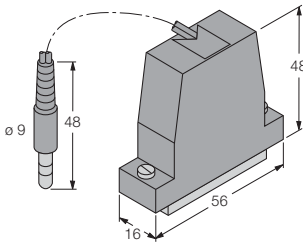
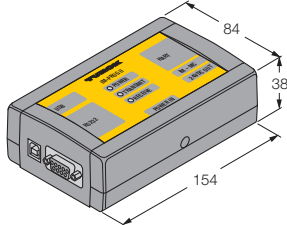
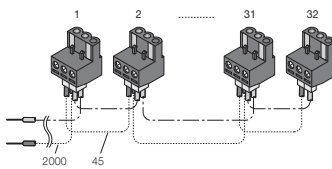
Interfacetechnik – Niveauwächter
Interface technology – Level controls
Technique d'interface – Contrôleurs de niveaux

<p>Frontansicht und Abmessungen</p> <p>Front view and dimensions</p> <p>Vue frontale et dimensions</p> <p>[mm]</p>	<p>Blockschaltbild</p> <p>Circuit diagram</p> <p>Schéma fonctionnel</p>	<p>Funktionen</p> <p>Functions</p> <p>Fonctions</p> <p>(E) 853</p>	<p>Betriebs- spannung</p> <p>Operational voltage</p> <p>Tension de service</p> <p>[V]</p>	
 			<p>20...250 VAC</p> <p>20...250 VAC</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Frequenz Frequency Fréquence	Beschreibung Description Description
MS91-12-R	5220110 ^x	5 Hz	<p>Wirkungsrichtung und Empfindlichkeitsbereich des Schaltpunktes (0,1...100 kΩ) über Anschlussklemmen einstellbar, generelle Verzögerungszeit 0,1...15 s, min./max. Niveauerkennung oder Zweipunktregelung/ Terminal configuration of output mode and switch point sensitivity (0.1...100 kΩ), selectable general delay time of 0.1...15 s, min./max. level detection or two-step control/ Sens d'action et plage de sensibilité du point de commutation (0,1...100 kΩ) réglables par bornes de raccordement, délai de temporisation général de 0,1...15 s reconnaissance du niveau min./max. ou régulation deux points</p>

^x = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Zubehör
Interface technology – Accessories
Technique d'interface – Accessoires

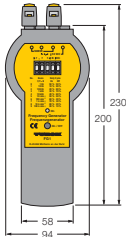
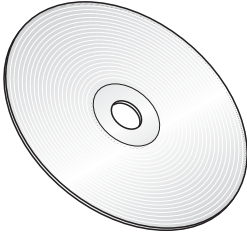
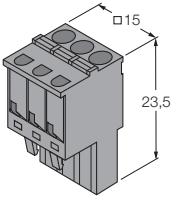
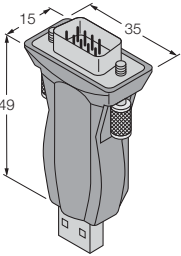
<p>Frontansicht und Abmessungen Front view and dimensions Vue frontale et dimensions [mm]</p>	<p>Produktbezeichnung Product designation Désignation de produit</p>	<p>Merkmale Features Caractéristiques</p>	
	<p>Widerstandsmodul WM 1 Resistor module WM1 Module de résistance WM1</p>	<p>Schraubklemmen bis zu 2,5 mm² Screw terminals up to 2.5 mm² Bornes à vis jusqu'à 2,5 mm²</p>	
	<p>Tauchelektrode Insertion electrode Electrode d'immersion</p>	<p>Anschluss an MK91... und MS91... Connection to MK91... and MS91... Raccordement au MK91... et MS91...</p>	
	<p>Programmieradapter Programming adapter Adaptateur de programmation</p>	<p>Galvanisch getrennte Signalübertragung Galvanically isolated signal transmission Transmission de signaux séparés galvaniquement</p>	
	<p>Programmieradapter/HART®-Modem Programming adapter/HART® modem Adaptateur de programmation/ Modem HART®</p>	<p>Galvanische Trennung von PC zu angeschlossenem Interface- oder HART®-Gerät Galvanic isolation of PC to the connected interface of HART® device Séparation galvanique du PC par rapport à l'appareil HART® ou à l'interface raccordés</p>	
	<p>Power-Bus Power-Bus Bus d'alimentation</p>	<p>Schraubklemmen bis zu 2,5 mm² Screw terminals up to 2.5 mm² Bornes à vis jusqu'à 2,5 mm²</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Beschreibung Description Description
WM1 WIDERSTANDSMODUL	0912101 ✕	<p>Widerstandsmodul für die Kontaktbeschaltung bei Leitungsüberwachung, Schraubklemmen: 2 x ≤ 2,5 mm², Kabelenden 2 x 0,5 mm², T_U = -20...+70 °C, Temperaturklasse T4, U_i ≤ 16 V, I_i ≤ 60 mA, P_i ≤ 150 mW, C_i und L_i sind vernachlässigbar/ Resistor module for the contact circuitry, screw terminals: 2 x ≤ 2.5 mm², cable ends 2 x 0.5 mm², T_U = -20...+70 °C, temperature class T4, U_i ≤ 16 V, I_i ≤ 60 mA, P_i ≤ 150 mW, C_i and L_i are negligible/ Module de résistance pour le circuit d'adaptation en cas de surveillance du circuit d'entrée, bornes à vis: 2 x ≤ 2,5 mm², 2 x 0,5 mm² avec cosses, T_U = -20...+70 °C, classe de température T4, U_i ≤ 16 V, I_i ≤ 60 mA, P_i ≤ 150 mW, C_i et L_i sont négligeables</p>
EL 1/1	69672 ✕	<p>Edelstahl-Tauchelektrode (X 12 Cr Mo S 17, 1.4104) in Kunststoffhülse (Polyäthylen) zur Verwendung mit den TURCK-Niveauwächtern Anschlussmöglichkeit für einadriges Kabel bis 4 mm² (kann wasserdicht vergossen werden) Temperaturbereich: 0...60 °C/ Stainless steel insertion electrode (X 12 Cr Mo S 17, 1.4104) in plastic bushing (Polyethylene) for use with TURCK level controls, optional connection for single-wire cable up to 4 mm² (can be encapsulated to provide water-proofness) 0...60 °C/ Electrode d'immersion en acier inoxydable (X 12 Cr Mo S 17, 1.4104) logée dans une douille de protection plastique (polyéthylène) pour utilisation avec les contrôleurs de niveau TURCK; possibilité de raccordement pour câble monoconducteur à 4 mm² (raccordement surmoulé et étanche possible) plage de température: 0...60 °C</p>
IM-PROG	6890422 ✕	<p>PC-Adapter zur Programmierung von TURCK-Interface-Geräten über FDT/DTM/ PC adapter for programming of TURCK interface devices via FDT/DTM/ Adaptateur PC pour la programmation des interfaces TURCK par FDT/DTM</p>
IM-PROG II	6890426 ✕	<p>Universeller Programmieradapter zur Parametrierung von TURCK-Interfacegeräten der Baureihen IM und MC, Anschluss über USB- oder RS232-Schnittstelle, Anschluss HART[®]-Geräte möglich/ Universal programming adapter for parameterization of TURCK interface devices series IM and MC connection via USB or RS232 interface, connection of HART[®] devices possible/ Adaptateur de programmation universel des interfaces TURCK des séries IM et MC connexion par interfaces USB ou RS232, connexion d'appareils HART[®] possible</p>
<p>PB-08/03</p> <p>PB-16/03</p> <p>PB-32/03</p>	<p>6900370 ✕</p> <p>6900371 ✕</p> <p>6900372 ✕</p>	<p>Versorgungsspannungs-Bus für 8, 16 oder 32 Geräte der TURCK-Baureihe interfacemodul/ Power supply bus for 8, 16 or 32 devices of TURCK's interface module series/ Bus de tension d'alimentation pour 8, 16 et 32 appareils de la série modules d'interfaçage TURCK</p>

Interfacedechnik/Interface Technology/
Technique d'interface

✕ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

Interfacetechnik – Zubehör
Interface technology – Accessories
Technique d'interface – Accessoires

<p>Frontansicht und Abmessungen Front view and dimensions Vue frontale et dimensions [mm]</p>	<p>Produktbezeichnung Product designation Désignation de produit</p>	<p>Merkmale Features Caractéristiques</p>	
	<p>Frequenzgenerator Frequency generator Générateur de fréquence</p>	<p>Interne Spannungsversorgung über 9-V-Blockbatterie (6 LR 61) internal power supply via 9 V block battery (6 LR 61) Alimentation interne par batterie monobloc 9 V (6 LR 61)</p>	
	<p>PACTware™ DTM-Professional-Lizenz PACTware™ DTM professional licence Licence professionnelle PACTware™ DTM</p>	<p>Lizenz-Datei Licence file Fichier licence</p>	
	<p>Abziehbare Federzugklemmen Removable cage-clamp terminals Bornes à ressort débrochables</p>	<p>Federzugklemmen bis zu 2,5 mm² Cage-clamp terminals up to 2.5 mm² Bornes à ressort jusqu'à 2,5 mm²</p>	
	<p>USB-RS232 Adapter USB-RS232 adapter Adaptateur USB-RS232</p>	<p>USB 1.1 und AMP 1.2 kompatibel, Datenrate bis 1,2 MBit/s USB 1.1 and AMP 1.2 compatible, data rate up to 1.2 MBps USB 1.1 et AMP 1.2 compatible, vitesse de transmission de données jusqu'à 1,2 Mbit/s</p>	
<p>ohne Abbildung without figure sans figure</p>	<p>Kompensationsmodul Compensation module Module compensation</p>	<p>Schraubklemmen bis zu 2,5 mm² Screw terminals up to 2.5 mm² Bornes à vis jusqu'à 2,5 mm²</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Beschreibung Description Description
FG1 FREQUENZGENERATOR	6900277 ✕	Simulation von Sensoren nach EN 60947-5-6 (NAMUR) oder Schließerkontakten Frequenzbereich: 0,01...99900 Hz (0,01...999000 min ⁻¹)/ Simulation of sensors according to DIN EN 60947-5-6 (NAMUR) or normally open contacts, frequency range 0.01...99900 Hz (0.01...999000 min ⁻¹)/ Simulation de détecteurs suivant EN 60947-5-6 (NAMUR) ou contacts N.O., plage de fréquence: 0,01...99900 Hz (0,01...999000 min ⁻¹)
DTM-PROFLIZENZ IM34	6900404 ✕	DTM Vollversion mit Monitor-, Druck-, Speicherfunktion und Trendviewer/ DTM full version with monitor, print, memory and trend viewer function/
DTM-PROFLIZENZ MC25	6900405 ✕	Version complète DTM avec fonction de contrôle, d'impression, de mémoire et Trendviewer
IM-CC-3X2BU/2BK	6900475 ✕	Abziehbare Federzugklemmen für IM-Module 3-polig Liefermenge: je 2 blaue und 2 schwarze Klemmen/ Removable cage clamp terminals for IM modules, 3-pole. Quantity supplied: each 2 blue and 2 black terminals/ Bornes à ressort débrochables pour les modules IM 3 pôles, quantité livrée: chacun 2 bornes bleues et 2 noires
USB-2-RS232	6900426 ✕	Serieller Adapter DSUB9-Stecker auf USB, im Lieferumfang: Treiber für Microsoft® 98/ME/2000/XP, Kabellänge: 1,7 m/ Serial adapter DSUB9 male to USB connector, included in delivery are drivers for Microsoft® 98/ME/2000/XP, Cable lengths: 1.7 m/ Adaptateur série connecteur mâle DSUB9 sur connecteur USB inclus dans la livraison: pilote pour Microsoft® 98/ME/2000/XP, longueur de câble: 1,7m
IM3-CJT	6900524 ✕	Integrierter Pt100-Widerstand zur Kaltstellenkompensation für IM34-11... oder IM34-12... Integrated Pt100 resistor for cold junction compensation for IM34-11... or IM34-12... Résistance Pt100 intégrée pour la compensation du point froid pour IM34-11... ou IM34-12..

Interfacetechnik/Interface Technology/
Technique d'interface

✕ = Vorzugstypen, kurzfristig lieferbar/Preferred solution, available at short notice/Types préférés, livrables à bref délai

multicart®

Neben dem kompletten Programm an Interfacemodulen für die Hutschienensmontage erhalten Sie bei TURCK auch vielfältige Lösungen auf Europakarte: Interfacetechnik in der Bauform *multicart®* für den Einbau in 19"-Baugruppenträgern.

multicart®-Europakarten zeichnen sich durch eine hohe Kanaldichte bei kleiner Baubreite aus. In der Regel nur 4 TE (= 20,32 mm) breit, lassen sich diese Geräte in allen gängigen Baugruppenträgern montieren. Das Produktspektrum umfasst sämtliche Funktionen, die in der Prozessindustrie benötigt werden. Eine Vielzahl der Geräte ist auch in der Zündschutzart „Eigensicherheit“ erhältlich.

Trennschaltverstärker

Trennschaltverstärker übertragen die binären Schaltzustände von mechanischen Schaltern oder NAMUR-Sensoren aus dem Ex-Bereich in den sicheren Bereich. Verfügbar sind Geräte mit 2, 3, 4 und 8 Kanälen. Es werden Varianten mit Relaisausgang sowie mit potentialfreiem Transistorausgang angeboten. Eingangskreisüberwachung (auf Drahtbruch und Kurzschluss) und Wirkungsrichtung lassen sich über frontseitige Schalter oder per Steckbrücke einstellen.

Drehzahlüberwachung

TURCK-Drehzahlüberwachungskarten sind grundsätzlich mit einem Prozessor ausgestattet und zeigen im transflektiven LED-Display die aktuelle Drehzahl an. Impulsfolgen können von eigensicheren NAMUR-Sensoren im Ex-Bereich und Dreidraht-Sensoren im sicheren Bereich ausgewertet werden. Abhängig vom Gerätetyp sind max. zwei Grenzwertausgänge (Relaiswechsler und plusschaltender Transistor) sowie ein analoger Spannungs- und Stromausgang vorhanden. Somit ist neben der Drehzahlüberwachung auf Unter-, Überschreitung und Fensterfunktion auch noch eine Frequenz-Strom-Umsetzung möglich.

multicart®

Alongside the interface range for DIN rail mounting, the company TURCK offers Eurocard format modules for installation in 19" module racks, series *multicart®*.

These 19" cards feature a high channel density despite their miniature design. Most cards have a width of 4 TE (= 20.32 mm) and are thus suited to mounting in all commonly used racks. The product spectrum comprises all functions needed in the process industry. Many of the devices feature protection type "intrinsic safety".



multicart®

Isolating switching amplifiers

There are isolating switching amplifiers for transfer of binary switching states of mechanical switches or NAMUR sensors from the explosion hazardous area into the safe area in 2, 3, 4 and 8 channel versions. The outputs come as relay or potential-free transistor outputs. Adjustment of input circuit monitoring for wire-break and short-circuit conditions and of the output mode is accomplished with switches on the front plate or via jumpers.

Rotation speed monitoring

TURCK speed monitoring boards generally feature a processor and indicate the current speed on the transreflective LED display. Pulse sequences from intrinsically safe NAMUR sensors located in explosion hazardous areas and from 3-wire sensors in the safe area can thus be evaluated. Depending on the device type, there are up to two limit value outputs, which are either constructed as relay or pnp transistor outputs, plus an analog voltage and current output. Thus it is possible to implement a frequency/current conversion function alongside the standard rotation speed monitoring characteristic for over-speed and underspeed and a window function.

En complément du programme des appareils d'interfaçage avec montage sur rails DIN, la société TURCK offre des cartes au format européen pour le montage dans des racks 19": *multicart®*.

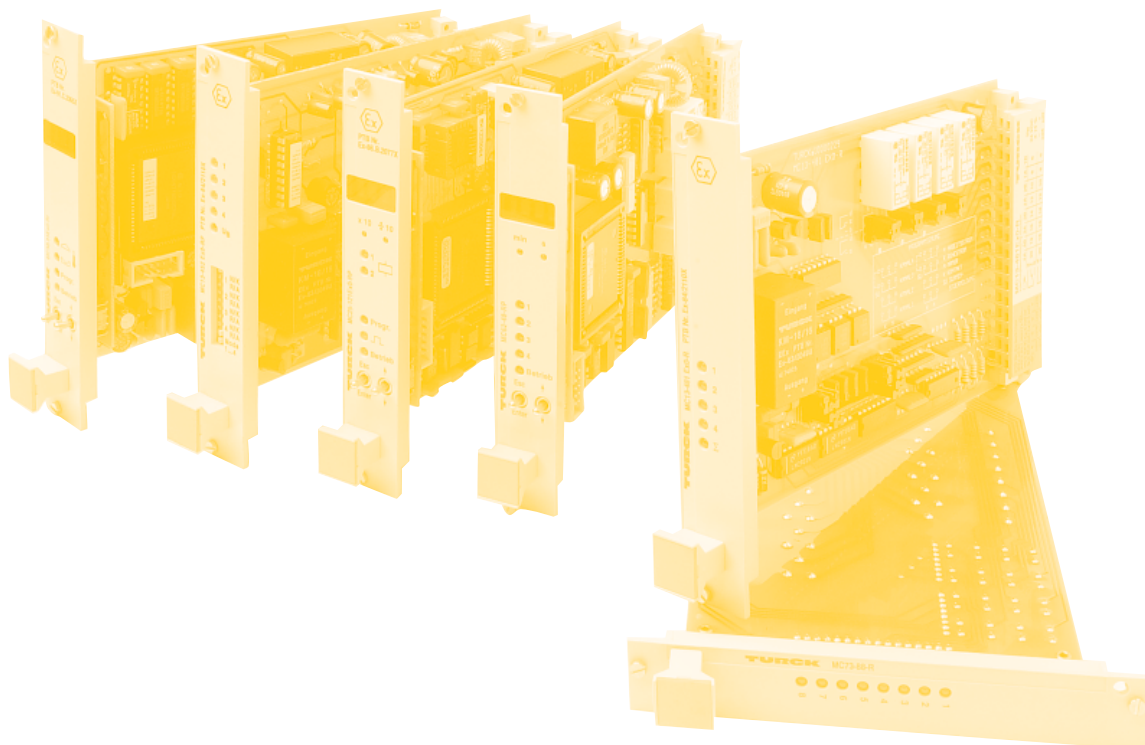
Les cartes au format européen sont caractérisées par une densité de canaux élevée compte tenu de l'encombrement réduit. La plupart des cartes ont une largeur de 4 TE (=20,32 mm) et peuvent être montées dans tous les racks 19" standard. Cette famille de produits contient l'ensemble des fonctions qui sont couramment utilisées dans l'industrie de process. Beaucoup d'appareils sont conçus dans le mode de protection "sécurité intrinsèque".

Amplificateurs séparateurs

Les amplificateurs séparateurs sont utilisés pour la transmission de signaux binaires générés par des commutateurs de fin de course mécaniques ou détecteurs NAMUR installés en zone Ex. Ces appareils sont disponibles en version à 2, 3, 4 ou 8 canaux. Les sorties libres de potentiel sont soit à relais, soit transistorisées. Les commutateurs en face avant permettent de paramétrer le sens d'action de la sortie ainsi que la surveillance du câblage (rupture de câble et court-circuit).

Contrôle de rotation

Les contrôleurs de rotation TURCK en format de carte européen sont équipés d'un processeur et indiquent la vitesse de rotation actuelle sur un afficheur à LED non réfléchissant. La chaîne d'impulsions peut être évaluée à l'aide de détecteurs NAMUR installés en zone explosible ou à l'aide de détecteurs à 3 fils installés en zone sûre. En fonction du type d'appareil on peut paramétrer 2 valeurs limites qui sont activées par des sorties relais ou transistorisées et disposer d'une sortie analogique courant ou tension. De cette façon une surveillance de sous-vitesse, survitesse ou fenêtre mini maxi ainsi que la mesure de vitesse sont possible.



Analogsignalrenner

Das Produktspektrum der Analogsignalrenner bietet Lösungen für die Bereiche Temperatursauswertung über Pt100- oder Thermoelemente, Messumformer-Speisetrenner mit und ohne HART®-Übertragung, Gradientenüberwachung und reine Analogsignalrennung. Zum Angebot gehören einfache Geräte zur Übertragung des Analogsignals und prozessorgesteuerte Geräte mit Grenzwertausgängen und Signalanpassung.

Grenzwertkarte

Zur Grenzwertbildung von analogen Stromsignalen im Bereich 0...20 mA und 0...10 V sind Grenzwertkarten mit zwei einstellbaren Grenzwerten erhältlich. Ein Display zeigt den aktuellen Eingangswert an.

Digitale Zeitkarten

Für einfache Steuerungsaufgaben kann anstelle einer SPS eine Zeitkarte eingesetzt werden. Die prozessorgesteuerte Karte besitzt ein LED-Display und kann bis zu 4 verschiedene Kanäle ansteuern. Zur Lösung einfacher Steuerungsaufgaben sind 8 unterschiedliche Zeitfunktionen vorgesehen.

Ventilsteuerkarten/ Eigensichere Stromversorgungen

Zur Ansteuerung von eigensicheren Verbrauchern, z. B. Magnetventilen im explosionsgefährdeten Bereich, gibt es Geräte mit wählbarer Ausgangsspannung und festem Maximalstrom. Teilweise kommen die Karten ohne zusätzliche Hilfsenergie aus und eignen sich daher zum sicheren Abschalten auf der Nicht-Ex-Seite z. B. für Überfüllsicherungen.

Analog data transmitters

The range of analog data transmitters is divided into device groups for temperature measurement with Pt100 RTDs or thermoelements, isolating transducers with or without HART®-transmission, gradient monitors and pure analogue data transmitters. There are simple devices for transmission of analogue signals and processor-controlled devices with limit value outputs for signal conditioning.

Limit value cards

For limit value forming of analog current signals in a range of 0...20 mA and 0...10 V, there is a limit value card with two adjustable limit values. The actual input value is indicated by a display.

Digital timer cards

For simple control tasks, it is possible to use a timer card instead of a PLC. The processor-controlled card has an LED display and is capable of driving up to 4 different channels. Eight different timing functions help accomplish simple control tasks.



**Valve control cards/
Intrinsically safe power supplies**

For control of intrinsically safe consumers, such as magnetic valves in explosion-hazardous areas, there are devices with selectable output current and fixed maximum current values. Some of these cards do not need an additional auxiliary power supply and are thus suited for reliable shut-down operations on the non-Ex side, e.g. for overflow detection.

Séparateurs de signaux analogiques

La famille des séparateurs de signaux analogiques est divisée en plusieurs groupes. Parmi ceux ci on trouve les appareils pour la mesure de température par Pt100 ou thermocouple, les appareils pour l'acquisition de signaux générés par des transmetteurs avec et sans transmission HART®, la surveillance de gradients ou simplement l'isolement de signaux analogiques. Ces appareils pilotés par processeur permettent la transmission d'un signal analogique et disposent de sorties qui sont activées lors du dépassement de valeurs limites.

Cartes de commande pour électrovannes / Alimentations à sécurité intrinsèque

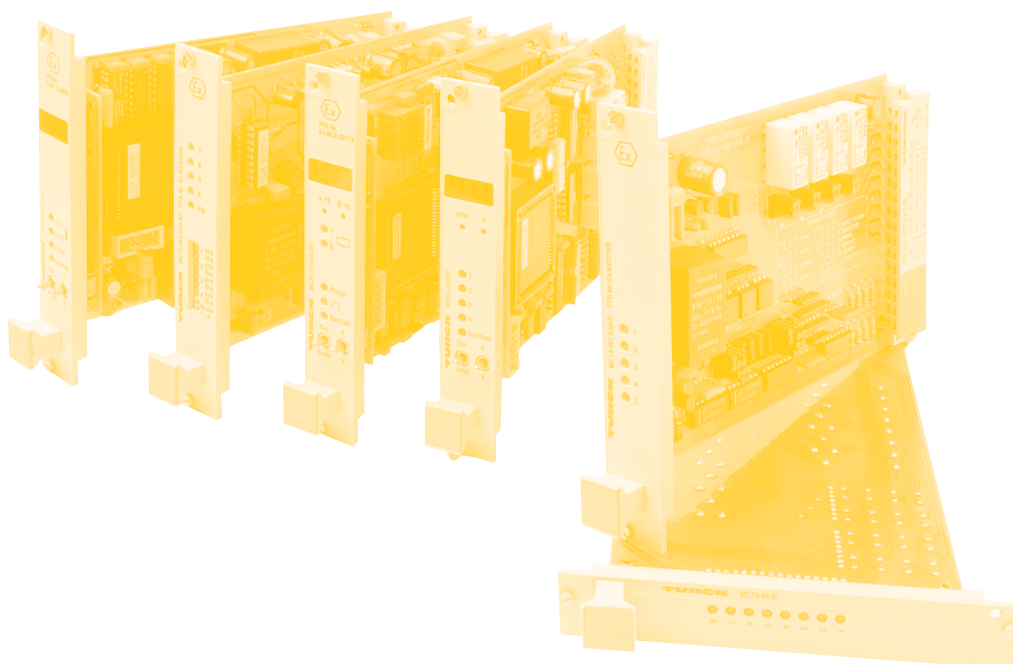
Pour la commande de consommateurs à sécurité intrinsèque, p.ex. d'électrovannes installées en zone explosible, on dispose d'appareils à tension de sortie réglable avec une valeur de courant maxi. Certaines cartes ne nécessitent pas d'énergie auxiliaire et sont adaptées pour la commande d'arrêt d'urgence en zone sûre, par ex. pour la surveillance de débordement.

Carte de valeur limite

Une carte de valeur limite permet le réglage de deux seuils dans la plage 0...20 mA ou 0...10 V. La valeur électrique d'entrée est indiquée par un afficheur.

Cartes temporisées digitales

Pour des fonctions de commande simples on peut utiliser une carte temporisée au lieu d'un API. La carte pilotée par un processeur dispose d'un afficheur à LED et peut commander au maximum 4 canaux. Huit fonctions temporisées différentes sont disponibles pour résoudre des applications simples.



Interfacetechnik/Interface Technology/
Technique d'interface

Relaiskarten

Relaiskarten dienen zur galvanischen Trennung zwischen Steuer- und Lastkreisen. Das Programm umfasst vier- oder achtkanalige Varianten, z. B. Geräte mit Eingangsverstärker, Geräte mit abgesicherten Stromkreisen und vielen weiteren Funktionsmerkmalen.

Stromversorgungen

In zwei Ausführungen erhältlich, bieten die Stromversorgungen bei 24 V Ausgangsspannung einen Strom von 2,5 A bzw. 5,0 A. Die Versorgungsspannung beträgt wahlweise 230 VAC oder 115 VAC. Darüber hinaus sind Zubehörkarten mit Diodenkopplung und Sicherungen erhältlich.

Nivea uwächter

Das Sortiment enthält zweikanalige Karten zur Überwachung leitfähiger Medien nach dem konduktiven Messprinzip.

Baugruppenträger

Für die Aufnahme der *multicart*[®]-Geräte gibt es ein umfangreiches Programm an Baugruppenträgern mit einer Vielzahl von Anschlussmöglichkeiten. Es ist außerdem möglich kundenspezifische Baugruppenträger und Schaltschränke zu fertigen.

Relay cards

Relay cards are designed for galvanic isolation between control and load circuits. The programme comprises devices with input amplifiers, devices with protected current circuits and many more features. These cards come as four or eight channel versions.

Power supplies

There are two types of power supplies, providing a current of 2.5 A or 0.5 A at an output voltage of 24 V. The supply voltage is either 230 VAC or 115 VAC. Further there are accessory cards with diode coupling and fuses available.

Level controls

This range comprises two-channel cards for monitoring of conductive media based on the conductive measuring principle.



Module racks

TURCK offers a comprehensive range of module racks with a choice of various connection techniques for insertion of *multicart*® devices. Further it is possible to construct customer-specific module racks and cabinets.

Cartes à relais

Les cartes à relais permettent la séparation galvanique entre le circuit de commande et la charge. Le programme contient des appareils avec des amplificateurs d'entrée, des appareils avec protection par fusibles ainsi que d'autres dispositifs. Ces cartes sont disponibles en version à 4 ou 8 canaux.

Racks 19"

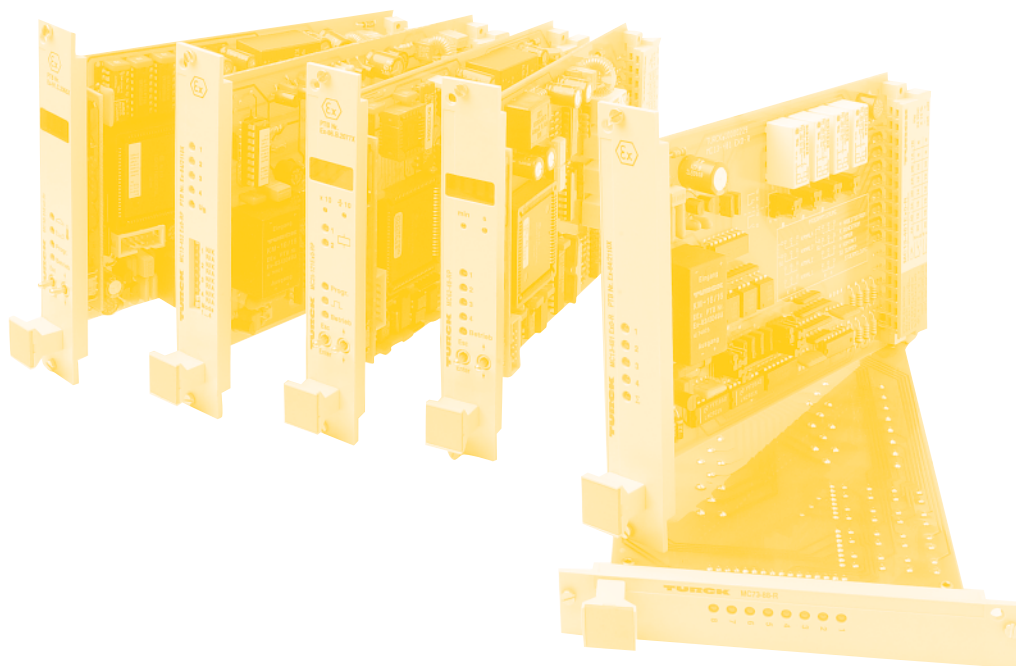
Pour l'installation d'appareils *multicart*® le programme offre une large gamme de racks 19" avec différents modes de raccordement. En outre, il est possible de fabriquer des racks 19" et des armoires de commande spécifiques.

Alimentations


Deux appareils d'alimentation sont disponibles offrant un courant de 2,5 A ou de 5,0 A sous une tension de 24 V. La tension d'alimentation primaire est de 230 ou 115 VAC. Des cartes de protection et cartes de découplage à diodes sont aussi disponibles.

Contrôleurs de niveaux

Cette gamme comporte des cartes à deux canaux pour la surveillance de niveaux sur liquides conducteurs.



Interfacetechnik/Interface Technology/
Technique d'interface



Feldbustechnik Fieldbus Technology Technique du bus de terrain

**x = Vorzugstypen,
kurzfristig lieferbar**

TURCK-Vorzugstypen garantieren besonders kurze Lieferzeiten. In der Regel können Sie diese Produkte binnen 48 Stunden erhalten! Alle Vorzugstypen sind in diesem Katalog mit **x** gekennzeichnet.

**x = Preferred solution,
available on short notice**

TURCK preferred types guarantee particularly short delivery times. Generally these products are available within 48 hours! All preferred solutions are marked in this catalogue with an **x**.

**x = Types préférés,
livrables à bref délai**

Les types préférés de TURCK garantissent des délais de livraison particulièrement brefs. En règle générale, ces produits sont livrables dans les 48 heures! Tous les types préférés sont marqués par **x** dans ce catalogue.















Feldbustechnik

Fieldbus technology

Technique du bus de terrain

TURCK

Industrial
Automation

	PROFIBUS-DP – Feldbuskomponenten	587
	PROFIBUS-DP – Fieldbus components	
	PROFIBUS-DP – Composants pour bus de terrain	
	DeviceNet™ – Feldbuskomponenten	588
	DeviceNet™ – Fieldbus components	
	DeviceNet™ – Composants pour bus de terrain	
	CANopen – Feldbuskomponenten	589
	CANopen – Fieldbus components	
	CANopen – Composants pour bus de terrain	
	Interbus – Feldbuskomponenten	590
	Interbus – Fieldbus components	
	Interbus – Composants pour bus de terrain	
	Ethernet – Netzwerkkomponenten	591
	Ethernet – Network components	
	Ethernet – Composants de réseaux	
	Kompakte Feldbusstationen	592
	Compact fieldbus components	
	Composants de bus de terrain compacts	
	<i>piconet</i> ®-Module – Kompakte Feldbuskomponenten	600
	<i>piconet</i> ®-Modules – Fieldbus components	
	Modules <i>piconet</i> ® – Composants pour bus de terrain	
	<i>BL compact</i> – Kompakte IP67-Feldbusgeräte	648
	<i>BL compact</i> – Compact fieldbus devices in IP67	
	<i>BL compact</i> – Appareils de bus de terrain IP67 compacts	
	BL67 – Modulares I/O-Busklemmensystem	654
	BL67 – Modular I/O bus terminal system	
	BL67 – Système bornes bus E/S modulaire	
	BL20 – Modulares I/O-Busklemmensystem	678
	BL20 – Modular I/O bus terminal system	
	BL20 – Système bornes bus E/S modulaire	
	Bus- und Versorgungskabel/Anschlussprodukte und Zubehör	708
	Bus and power cables/connector products and accessories	
	Câbles bus et d'alimentation/produits de raccordement et accessoires	
	FOUNDATION™ fieldbus – Feldbuskomponenten	746
	FOUNDATION™ fieldbus – Fieldbus components	
	FOUNDATION™ fieldbus – Composants pour bus de terrain	
	PROFIBUS-PA – Feldbuskomponenten	774
	PROFIBUS-PA – Fieldbus components	
	PROFIBUS-PA – Composants pour bus de terrain	
	<i>excom</i> ®- Feldbuskomponenten	800
	<i>excom</i> ®- Fieldbus components	
	<i>excom</i> ®- Composants pour bus de terrain	

FELDBUSTECHNIK

FIELD BUS TECHNOLOGY

TECHNIQUE DU BUS DE TERRAIN

PROFI
PROCESS FIELD BUS
BUS

DeviceNet

CANopen



Ethernet
Modbus TCP

PROFIBUS-DP – Systemübersicht

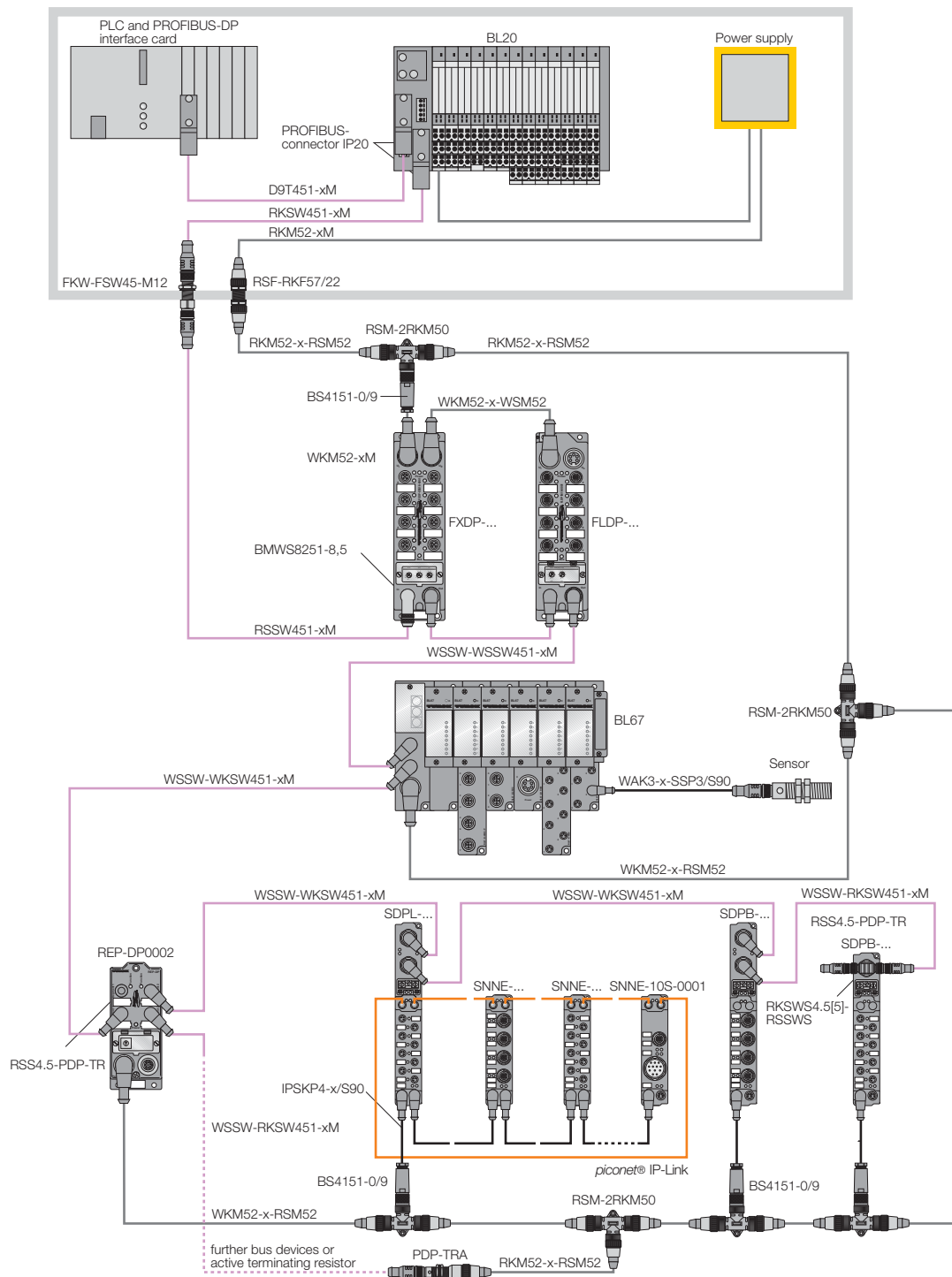
In dem unten dargestellten Applikationsbeispiel ist schematisch ein PROFIBUS-DP-Netzwerk mit den dazu von TURCK angebotenen Komponenten abgebildet. Nähere Informationen zu den einzelnen Produktfamilien finden Sie in den folgenden Abschnitten.

PROFIBUS-DP – System overview

In the application example shown below a PROFIBUS-DP network is represented schematically and shown with the components offered by TURCK. More detailed information concerning the individual product families can be found in the following sections.

PROFIBUS-DP – Aperçu de système

L'exemple d'application ci-dessous donne une représentation schématique d'un réseau PROFIBUS-DP avec les composants TURCK disponibles. Les chapitres suivants comprennent des informations détaillées sur les différentes familles de produits.



DeviceNet

DeviceNet™ – Systemübersicht

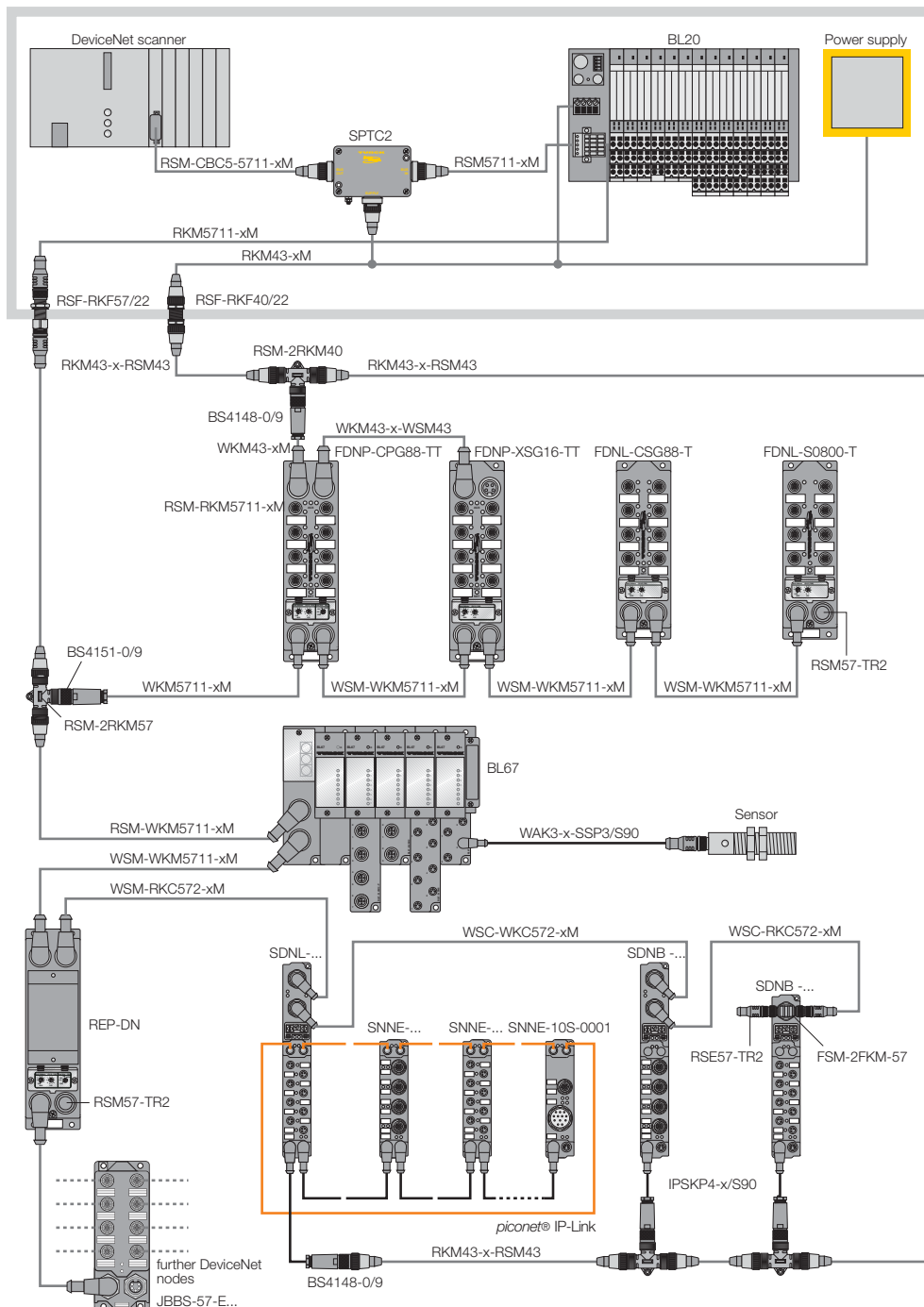
In dem unten dargestellten Applikationsbeispiel ist schematisch ein DeviceNet™ - Netzwerk mit den dazu von TURCK angebotenen Komponenten abgebildet. Nähere Informationen zu den einzelnen Produktfamilien finden Sie in den folgenden Abschnitten.

DeviceNet™ – System overview

In the application example shown below a DeviceNet™ network is represented schematically and shown with the components offered by TURCK. More detailed information concerning the individual product families can be found in the following sections.

DeviceNet™ – Aperçu de système

L'exemple d'application ci-dessous donne une représentation schématique d'un réseau DeviceNet™ avec les composants TURCK disponibles. Les chapitres suivants comprennent des informations détaillées sur les différentes familles de produits.



CANopen – Systemübersicht

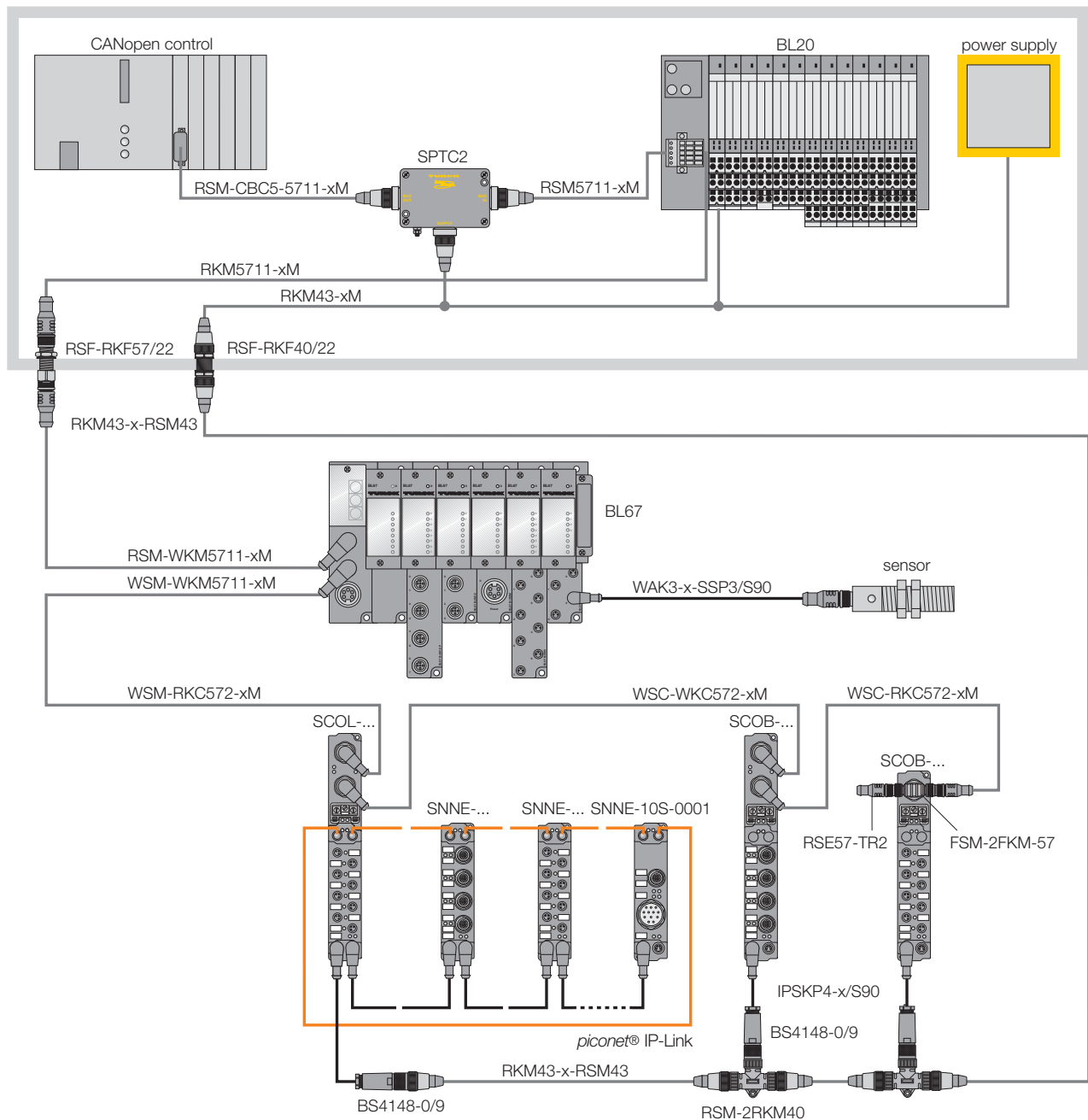
In dem unten dargestellten Applikationsbeispiel ist schematisch ein CANopen-Netzwerk mit den dazu von TURCK angebotenen Komponenten abgebildet. Nähere Informationen zu den einzelnen Produktfamilien finden Sie in den folgenden Kapiteln.

CANopen – System overview

In the application example shown below a CANopen network is represented schematically and shown with the components offered by TURCK. More detailed information concerning the individual product families can be found in the following sections.

CANopen – Aperçu de système

L'exemple d'application ci-dessous donne une représentation schématique d'un réseau CANopen avec les composants TURCK disponibles. Les chapitres suivants comprennent des informations détaillées sur les différentes familles de produits.





INTERBUS – Systemübersicht

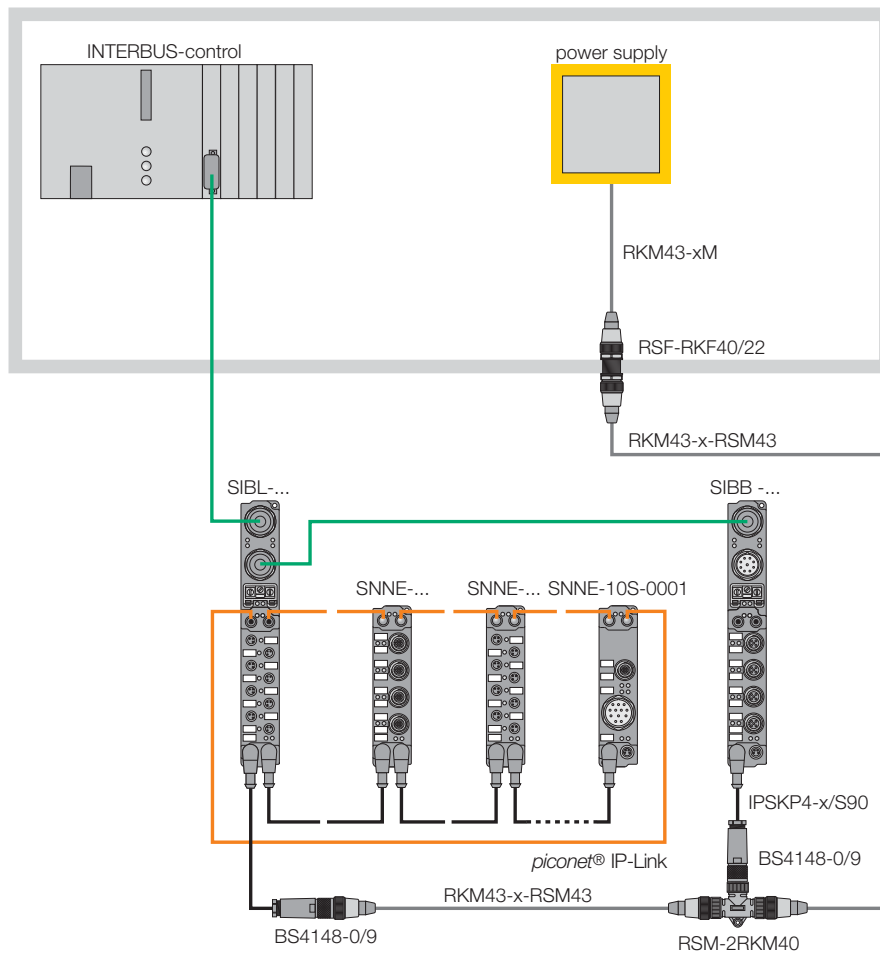
In dem unten dargestellten Applikationsbeispiel ist schematisch ein INTERBUS-Netzwerk mit den dazu von TURCK angebotenen Komponenten abgebildet. Nähere Informationen zu den einzelnen Produktfamilien finden Sie in den folgenden Kapiteln.

INTERBUS – System overview

In the application example shown below a INTERBUS network is represented schematically and shown with the components offered by TURCK. More detailed information concerning the individual product families can be found in the following sections.

INTERBUS – Aperçu de système

L'exemple d'application ci-dessous donne une représentation schématique d'un réseau INTERBUS avec les composants TURCK disponibles. Les chapitres suivants comprennent des informations détaillées sur les différentes familles de produits.



Ethernet

Ethernet – Systemübersicht

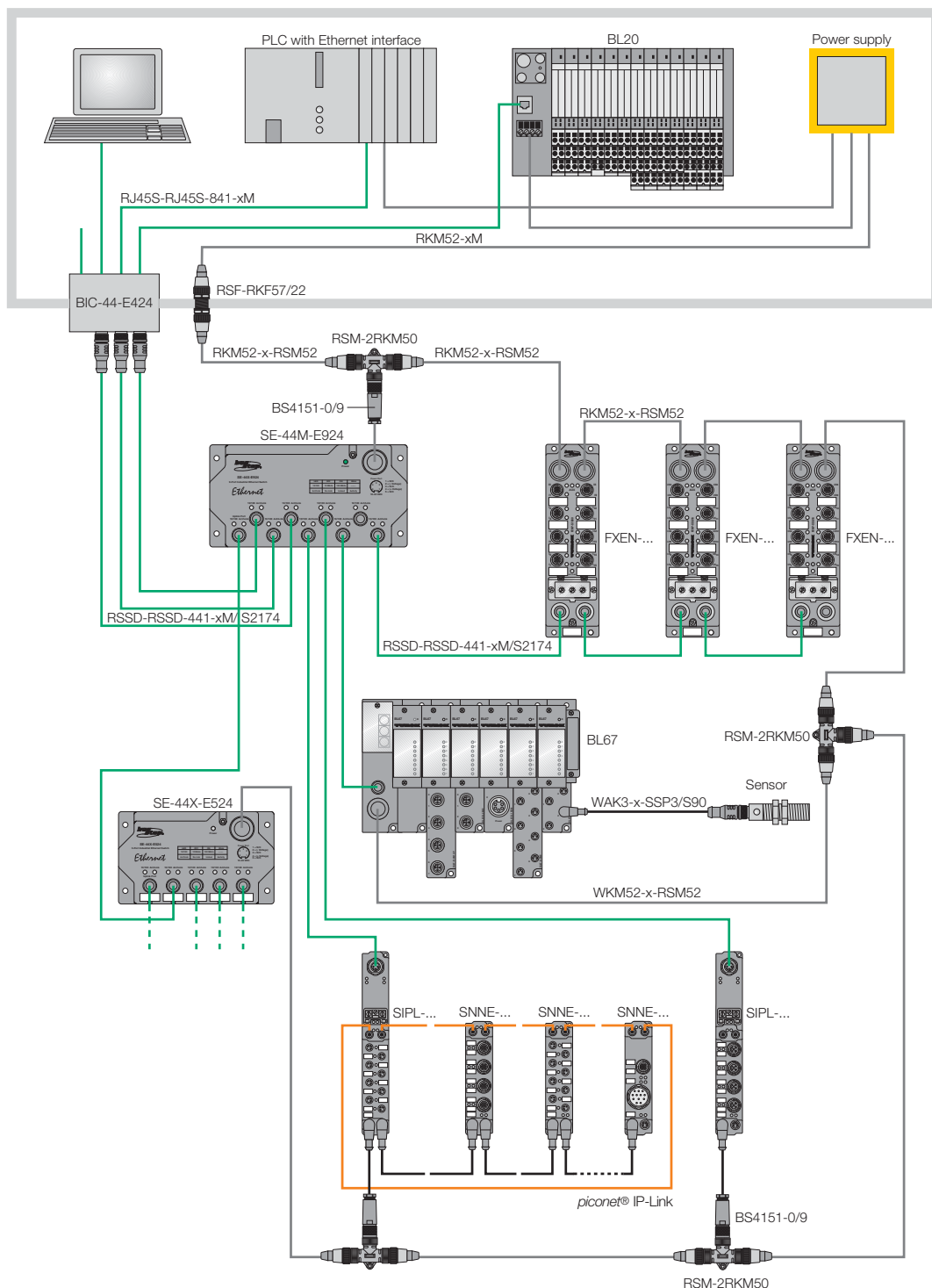
In dem unten dargestellten Anwendungsbeispiel ist schematisch ein Ethernet-Netzwerk mit den dazu von TURCK angebotenen Komponenten abgebildet. Nähere Informationen zu den einzelnen Produktfamilien finden Sie in den folgenden Kapiteln.

Ethernet – System overview

In the application example shown below a Ethernet network is represented schematically and shown with the components offered by TURCK. More detailed information concerning the individual product families can be found in the following sections.

Ethernet – Aperçu de système

L'exemple d'application ci-dessous donne une représentation schématique d'un réseau Ethernet avec les composants TURCK disponibles. Les chapitres suivants comprennent des informations détaillées sur les différentes familles de produits.



Kompakte Feldbuskomponenten in IP67 für den rauen Industrieinsatz

Die kompakten Feldbusstationen von TURCK sind speziell ausgelegt für die harten elektrischen und mechanischen Einsatzbedingungen im rauen Industrieumfeld. Sie zeichnen sich durch einheitliche Eigenschaften aus und bieten daher entscheidende Vorteile.

Ganz gleich ob Geräte für CANopen, PROFIBUS-DP, DeviceNet™, INTERBUS oder Ethernet – alle kompakten Feldbusstationen sind gleich aufgebaut und bieten durch die folgenden Eigenschaften entscheidende Vorteile:

- Einheitliche Anschlusstechnik mit Metallsteckverbindern
- Adresseinstellung via Drehkodierschalter unter Schutzfenster
- Robuste glasfaserverstärkte Kunststoffgehäuse mit voll vergossener Modulelektronik
- Schock- und vibrationsfest nach DIN EN 60068-2-6/-2-27

FLDP – PROFIBUS-DP-Module

- Kurzschlussammeldiagnose
- Bis zu 32 Kanäle

FXDP – konfigurierbare PROFIBUS-DP-Module

- Kanalbezogene Diagnose nach PROFIBUS-DP-Norm
- I/O-Bereich parametrierbar
- Bis zu 16 Kanäle

FGDP – PROFIBUS-DP-Module mit galvanischer Trennung

- Galvanische Trennung zwischen Betriebs- und Lastspannung
- Kanalbezogene Diagnose nach PROFIBUS-DP-Norm
- Bis zu 16 Kanäle

FDNP – DeviceNet™-Module

- Einzel- oder Sammeldiagnose
- Anschluss für Aktuator-Versorgung
- bis zu 16 Kanäle

FDNL – DeviceNet™-Module

- Einzel- oder Sammeldiagnose
- bis zu 16 Kanäle
- Versorgung aus DeviceNet™

FXEN – Konfigurierbare Ethernet-Module

- Integrierter Ethernet Switch
- I/O-Bereich frei konfigurierbar
- Kanalbezogene Diagnose
- Bis zu 16 digitale Kanäle

Compact fieldbus components in IP67 for harsh industrial use

The compact fieldbus stations from TURCK are specially designed for the harsh electrical and mechanical conditions which exist in industrial environments. They excel through the use of their standardised features and thus provide decisive benefits.

Regardless of if they are devices for CANopen, PROFIBUS-DP, DeviceNet™, INTERBUS or Ethernet – all compact fieldbus stations feature the same design and offer decisive benefits with the following features:

- Common connection technology with metal connectors
- Address setting via coded rotary switch under a protective cover
- Robust glass-fibre reinforced plastic housing with fully encapsulated module electronics
- Shock and vibration resistant to DIN EN 60068-2-6/-2-27



Composants de bus de terrain compacts en IP67 pour des applications dans des conditions industrielles rigoureuses

FLDP – PROFIBUS-DP modules

- Common short-circuit diagnostics
- Up to 32 channels

FXDP – configurable PROFIBUS-DP modules

- Channel based diagnostics acc. to PROFIBUS-DP standard
- Parameterisable I/O area
- Up to 16 channels

FGDP – PROFIBUS DP modules with galvanic isolation

- Galvanic isolation between operating and load voltage
- Channel based diagnostics according to the PROFIBUS-DP standard
- Up to 16 channels

FDNP – DeviceNet™ modules

- Individual or common diagnostics
- Connection for actuator supply
- Up to 16 channels

FDNL – DeviceNet™ modules

- Individual or common diagnostics
- Up to 16 channels
- Supply from DeviceNet™

FXEN – Configurable Ethernet modules

- Integrated Ethernet switch
- Freely configurable I/Os
- Channel-specific diagnostics
- Up to 16 digital channels

Les stations compactes pour bus de terrain de TURCK sont spécialement conçues pour des conditions d'utilisation électriques et mécaniques dures dans un environnement exigeant.

Leurs caractéristiques uniques permettent des avantages frappants. Qu'il s'agisse d'appareils pour CANopen, PROFIBUS-DP, DeviceNet™, INTERBUS ou Ethernet – toutes les stations compactes pour bus de terrain sont conçues selon la même conception et proposent les caractéristiques suivantes:

- Connexion standard avec connecteurs métalliques
- Réglage de l'adresse par interrupteur rotatif sous couvercle transparent
- Boîtier plastique robuste renforcé de fibre de verre avec électronique surmoulée entière
- Protection contre les chocs et vibrations selon DIN EN 60068-2-6/-2-27

Modules PROFIBUS-DP FLDP

- Diagnostic commun court-circuit
- Jusqu'à 32 canaux

Modules PROFIBUS-DP FXDP configurables

- Diagnostic par canal selon la norme PROFIBUS-DP
- Plage E/S paramétrable
- Jusqu'à 16 canaux

Modules PROFIBUS-DP FGDP avec séparation galvanique

- Séparation galvanique entre la tension de service et en décharge
- Diagnostic par canal selon la norme PROFIBUS-DP
- Jusqu'à 16 canaux

Modules DeviceNet™ FDNP

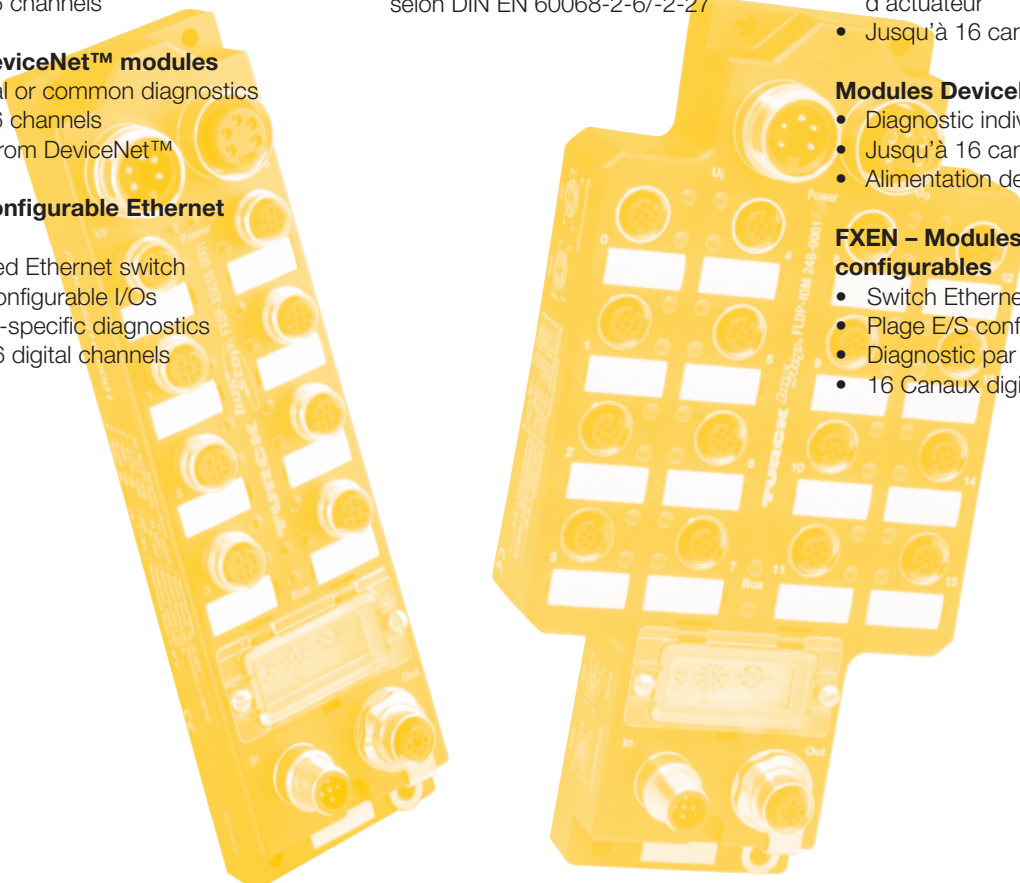
- Diagnostic individuel ou commun
- Connexion pour l'alimentation d'actuateur
- Jusqu'à 16 canaux



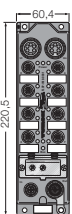
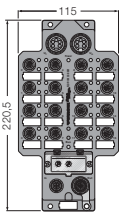
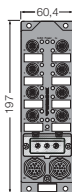
Modules DeviceNet™ FDNL

- Diagnostic individuel ou commun
- Jusqu'à 16 canaux
- Alimentation de DeviceNet™

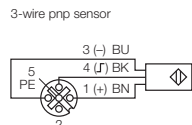
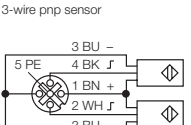
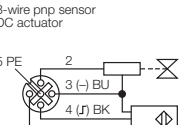
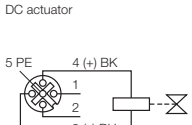
FXEN – Modules Ethernet configurables

- Switch Ethernet intégré
- Plage E/S configurable au choix
- Diagnostic par canal
- 16 Canaux digitaux au maximum



Bauform Housing style Format	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties			
	Anzahl Number Quantité	Signal Signal Signal 2 =  3 = 	Diagnose Diagnostics Diagnostic	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal Signal [A]	Diagnose Diagnostics Diagnostic	Verbindungstechnik Connection Connexion (Fig. Fxxx)
	8	3, pnp	KK, KS	8 x M12 (F001)	-	-	-	-
	16	3, pnp	KK, KS	8 x M12 (F002)	-	-	-	-
	-	-	-	-	8	1.4	KK, KS	8 x M12 (F004)
	-	-	-	-	16	1.4	KK, KS	8 x M12 (F107)
	8	3, pnp	KK, KS	4 x M12 (F002)	8	1.4	KK, KS	4 x M12 (F107)
	8	3, pnp	KK, KS	8 x M12 (F003)	8	1.4	KK, KS	8 x M12 (F003)
	16	3, pnp	KK, KS	8 x M12 (F002)	16	1.4	KK, KS	8 x M12 (F107)
	8	2/3, pnp	KS	8 x M12 (F001)	-	-	-	-
	16	2/3, pnp	KS	8 x M12 (F002)	-	-	-	-
	32	3, pnp	KS	16 x M12 (F002)	-	-	-	-
	-	-	-	-	8	0.5	-	8 x M12 (F004)
	-	-	-	-	8	2	-	8 x M12 (F004)
	-	-	-	-	16	0.5	-	8 x M12 (F107)
	8	2/3, pnp	KS	8 x M12 (F003)	8	0.5	-	8 x M12 (F003)
8	2/3, pnp	KS	4 x M12 (F002)	8	0.5	-	4 x M12 (F107)	
8	2/3, pnp	KS	4 x M12 (F002)	4	2	-	4 x M12 (F004)	
12	3, pnp	KS	6 x M12 (F002)	4	2	-	2 x M12 (F107)	
12	3, pnp	KS	6 x M12 (F002)	4	2	-	2 x M12 (F107)	
16	3, pnp	KS	8 x M12 (F002)	16	0.5	-	8 x M12 (F107)	
24	3, pnp	KS	12 x M12 (F002)	8	0.5	-	4 x M12 (F107)	
16	3, pnp	KK, KS	8 x M12 (F002)	-	-	-	-	
8	3, pnp	KK, KS	4 x M12 (F002)	8	1.4	KK, KS	4 x M12 (F107)	
8	3, pnp	KS	4 x M12 (F002)	8	1.4	KK	4 x M12 (F107)	

Anschlussbelegung
Pin configuration
Schéma de raccordement

	(F001)	(F002)	(F003)	(F004)
3-wire pnp sensor				

¹⁾ KK = Kurzschlussmeldung pro Kanal/Short-circuit indication per channel/Signalisation court-circuit par canal
KS = Kurzschluss-Sammelmeldung/Common short-circuit indication/Signalisation commune du court-circuit




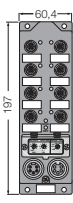
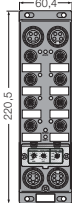
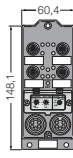
Typenbezeichnung Type Type	Maßbild Dimension drawing Schéma dimensionnel	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation		Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Diagnose Diagnostics Diagnostic	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
FXDP-IM8-0001	(A)	6825400	2 x 7/8" (F021)	UB	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FXDP-IM16-0001	(A)	6825401	2 x 7/8" (F021)	UB	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FXDP-OM8-0001	(A)	6825402	2 x 7/8" (F021)	UB, UL	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FXDP-OM16-0001	(A)	6825403	2 x 7/8" (F021)	UB, UL	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FXDP-IOM88-0001	(A)	6825404	2 x 7/8" (F021)	UB, UL	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FXDP-CSG88-0001	(A)	6825405	2 x 7/8" (F021)	UB, UL	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FXDP-XSG16-0001	(A)	6825406	2 x 7/8" (F021)	UB, UL	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FLDP-IM8-0001	(A)	6825320	2 x 7/8" (F021)	UB	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FLDP-IM16-0001	(A)	6825326	2 x 7/8" (F021)	UB	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FLDP-IM32-0001	(B)	6825332	2 x 7/8" (F021)	UB	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FLDP-OM8-0001	(A)	6825321	2 x 7/8" (F021)	UB, UL	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FLDP-OM8-0002	(A)	6825331	2 x 7/8" (F021)	UB, UL	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FLDP-OM16-0001	(A)	6825327	2 x 7/8" (F021)	UB, UL	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FLDP-IOM88-0001	(A)	6825322	2 x 7/8" (F021)	UB, UL	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FLDP-IOM88-0002	(A)	6825323	2 x 7/8" (F021)	UB, UL	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FLDP-IOM84-0001	(A)	6825330	2 x 7/8" (F021)	UB, UL	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FLDP-IOM124-0001	(C)	6825347	2 x M23 (F250) ³⁾	UB, UL	2 x M23 (F250) ³⁾	9,6 kBit/s...12 MBit/s
FLDP-IOM124-0002	(C)	6825348	2 x M23 (F250) ³⁾	UB, UL	2 x M23 (F250) ³⁾	9,6 kBit/s...12 MBit/s
FLDP-IOM1616-0001	(B)	6825338	2 x 7/8" (F021)	UB, UL	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FLDP-IOM248-0001	(B)	6825333	2 x 7/8" (F021)	UB, UL	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FGDP-IM16-0001	(A)	6825368	2 x 7/8" (F112)	UB	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FGDP-IOM88-0001	(A)	6825369	2 x 7/8" (F112)	UB, UL	2 x M12 (F022)	9,6 kBit/s...12 MBit/s
FGDP-IOM88-0003	(C)	6825396	2 x M23 (F251) ³⁾	UB, UL	2 x M23 (F251) ³⁾	9,6 kBit/s...12 MBit/s

(F021)	(F022)	(F083)	(F106)	(F107)	(F112) ²⁾
<p>1 = GND 2 = PE 3 = UL 4 = UB 5 = UL</p>	<p>1 = 5 VDC 2 = Bus - A 3 = GND 4 = Bus - B 5 = Shield</p>	<p>1 = 5 VDC 2 = BUS-A 3 = GND 4 = BUS-B 5 = shield</p>			<p>1 = GND_L 2 = GND_B 3 = FE 4 = U_B 5 = U_L</p>

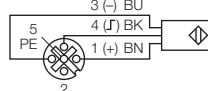
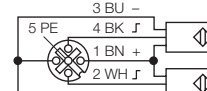
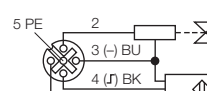
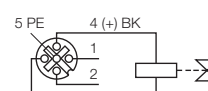
²⁾ Galvanische Trennung zwischen U_B und U_L/Galvanic isolation between U_B and U_L/Séparation galvanique entre U_B et U_L

³⁾ Anschlussbelegung siehe Seite 806/Pin configuration see page 806/Schéma de raccordement voir page 806

Kompakte Feldbusstationen, digital, 24 VDC, IP67
Compact fieldbus stations, 24 VDC, digital, IP67
Stations compactes pour bus de terrain, digitales, 24 VDC, IP67

Bauform Housing style Format	Eingänge/Inputs/Entrées					Ausgänge/Outputs/Sorties				
	Anzahl Number Quantité	Signal/Signal Signal 2 =  3 =  4 = 	Versorgung/ Supply/ Alimentation	Diagnose Diagnostics Diagnostic 1)	Verbindungs- technik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal [A]	Versorgung/ Supply/ Alimentation	Diagnose Diagnostics Diagnostic 1)	Verbindungs- technik Connection Connexion (Fig. Fxxx)
 <p>(A)</p>	8	2/3, pnp/npn	Bus	KK, DK	8 x M12 (F001)	-	-	-	-	-
	16	2/3/4, pnp/npn	Bus	KK, DK	8 x M12 (F002)	-	-	-	-	-
	8	2/3, pnp	Bus	KK, DK	8 x M12 (F003)	8	0.5	Aux	KK	8 x M12 (F003)
	4	2/3, pnp/npn	Bus	KK, DK	4 x M12 (F001)	4	0.5	Aux	KK, DK	4 x M12 (F012)
	8	2/3, pnp/npn	Bus	KK, DK	4 x M12 (F002)	8	0.5	Aux	KK	4 x M12 (F004)
	12	2/3/4, pnp	Bus	KK, DK	6 x M12 (F002)	4	0.5	Aux	KK, DK	2 x M12 (F010)
	8	2/3/4, pnp	Bus	KK, DK	4 x M12 (F002)	8	2	Aux	KK	4 x M12 (F010)
	8	2/3/4, pnp/npn	Bus	KK, DK	4 x M12 (F002)	8	2	Aux	KK	4 x M12 (F010)
	 <p>(B)</p>	4	2/3, pnp	Bus	KS	4 x M12 (F001)	-	-	-	-
		8	2/3/4, pnp	Bus	KS	4 x M12 (F002)	-	-	-	-
4		2/3, pnp	Bus	KS	4 x M12 (F003)	4	0.5	Bus	KS	4 x M12 (F003)
4		2/3/4, pnp	Bus	KS	2 x M12 (F002)	4	0.5	Bus	KS	2 x M12 (F004)
8		2/3/4, pnp	Bus	KS	4 x M12 (F002)	8	0.5	Bus	KS	4 x M12 (F010)
8		2/3, pnp	Bus	KS	8 x M12 (F001)	-	-	-	-	-
8		2/3, npn	Bus	KS	8 x M12 (F001)	-	-	-	-	-
16		2/3/4, pnp	Bus	KS	8 x M12 (F002)	-	-	-	-	-
16		2/3/4, npn	Bus	KS	8 x M12 (F002)	-	-	-	-	-
8		2/3, pnp	Bus	KS	8 x M12 (F003)	8	0.5	Bus	KS	8 x M12 (F003)
4	2/3, pnp	Bus	KS	4 x M12 (F001)	4	0.5	Aux	KS	4 x M12 (F004)	
8	2/3/4, pnp	Bus	KS	4 x M12 (F002)	8	0.5	Aux	KS	4 x M12 (F010)	
 <p>(C)</p>	16	2/3/4, pnp	Bus	KS	8 x M12 (F002)	16	0.5	Aux	KS	8 x M12 (F010)
	-	-	-	-	-	8	0.5	Aux	KK	8 x M12 (F004)
	-	-	-	-	-	8	1.4	Aux	KK	8 x M12 (F004)

Anschlussbelegung
Pin configuration
Schéma de raccordement


	(F001)	(F002)	(F003)	(F004)
3-wire pnp sensor				

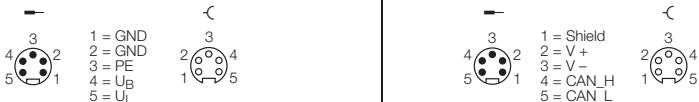
¹⁾ KK = Kurzschlussmeldung pro Kanal/Short-circuit indication per channel/Signalisation court-circuit par canal, KS = Kurzschluss-Sammelmeldung/Common short-circuit indication/Signalisation commune du court-circuit, DK = Drahtbruchmeldung pro Kanal/wire-break indication per channel/Signalisation rupt. de câble pour chaque canal

Typenbezeichnung Type Type	Maßbild Dimension drawing Schéma dimensionnel	Ident-Nr. Ident. no. No. d'ident.	Versorgung/Supply/Alimentation		Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Diagnose Diagnosis Diagnostic	Verbindungstechnik Connection Connexion (Fig. Fxxx)	max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
FDNL-L0800-T	(A)	6603335	-	-	2 x 7/8" (F059)	500 kBit/s
FDNL-L1600-T	(A)	6602335	-	-	2 x 7/8" (F059)	500 kBit/s
FDNP-CPG88-TT	(B)	6603324	2 x 7/8" (F023)	-	2 x 7/8" (F059)	500 kBit/s
FDNP-L0404G-TT	(B)	6603327	2 x 7/8" (F023)	-	2 x 7/8" (F059)	500 kBit/s
FDNP-L0808G-TT	(B)	6602389	2 x 7/8" (F023)	-	2 x 7/8" (F059)	500 kBit/s
FDNP-P1204G-TT	(B)	6602672	2 x 7/8" (F023)	-	2 x 7/8" (F059)	500 kBit/s
FDNP-P0808H-TT	(B)	6603329	2 x 7/8" (F023)	-	2 x 7/8" (F059)	500 kBit/s
FDNP-L0808H-TT	(B)	6603328	2 x 7/8" (F023)	-	2 x 7/8" (F059)	500 kBit/s
FDNQ-S0400-T	(C)	6603666	-	-	2 x 7/8" (F059)	500 kBit/s
FDNQ-S0800-T	(C)	6603667	-	-	2 x 7/8" (F059)	500 kBit/s
FDNQ-CSG44-T	(C)	6603668	-	-	2 x 7/8" (F059)	500 kBit/s
FDNQ-S0404G-T	(C)	6603669	-	-	2 x 7/8" (F059)	500 kBit/s
FDNQ-XSG08-T	(C)	6603670	-	-	2 x 7/8" (F059)	500 kBit/s
FDNL-S0800-T	(A)	6603336	-	-	2 x 7/8" (F059)	500 kBit/s
FDNL-N0800-T	(A)	6603671	-	-	2 x 7/8" (F059)	500 kBit/s
FDNL-S1600-T	(A)	6603316	-	-	2 x 7/8" (F059)	500 kBit/s
FDNL-N1600-T	(A)	6603672	-	-	2 x 7/8" (F059)	500 kBit/s
FDNL-CSG88-T	(A)	6603351	-	-	2 x 7/8" (F059)	500 kBit/s
FDNP-S0404G-TT	(B)	6603331	2 x 7/8" (F023)	-	2 x 7/8" (F059)	500 kBit/s
FDNP-S0808G-TT	(B)	6603348	2 x 7/8" (F023)	-	2 x 7/8" (F059)	500 kBit/s
FDNP-XSG16-TT	(B)	6603323	2 x 7/8" (F023)	-	2 x 7/8" (F059)	500 kBit/s
FDNP-S0008G-TT	(B)	6603673	2 x 7/8" (F023)	-	2 x 7/8" (F059)	500 kBit/s
FDNP-S0008H-TT	(B)	6603674	2 x 7/8" (F023)	-	2 x 7/8" (F059)	500 kBit/s

(F010)	(F012)	(F023)	(F059)
		<p>1 = Aux + 2 = E + 3 = E - 4 = Aux -</p>	<p>1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L</p>

Feldbusstechnik/Fieldbus Technology/
Technique du bus de terrain

Bauform Housing style Format	Feldbus Fieldbus Bus de terrain	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties				
		Anzahl Number Quantité	Signal Signal Signal	Diagnose Diagnostics Diagnostic	Verbindungstechnik Connection Connexion	Anzahl Number Quantité	Signal Signal Signal	Diagnose Diagnostics Diagnostic	Verbindungstechnik Connection Connexion	
 <p>(A)</p>	MODBUS TCP	16	3, pnp	KSV	8 x M12 (F253)	–	–	–	–	
	MODBUS TCP	16	3, pnp	KSV	8 x M12 (F253)	16	1.4	KK	8 x M12 (F254)	
	EtherNet/IP	16	3, pnp	KSV	8 x M12 (F253)	–	–	–	–	
	EtherNet/IP	16	3, pnp	KSV	8 x M12 (F253)	16	1.4	KK	8 x M12 (F254)	
	EtherNet/IP	16	3, pnp	KSV	8 x M12 (F253)	–	–	–	–	
	PROFINET	16	3, pnp	KSV	8 x M12 (F253)	–	–	–	–	
	PROFINET	16	3, pnp	KSV	8 x M12 (F253)	16	1.4	KK	8 x M12 (F254)	

Anschlussbelegung Pin configuration Schéma de raccordement	(F021)	(F059)
	 <p> 1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L </p> <p> 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L </p>	

¹⁾ KK = Kurzschlussmeldung pro Kanal/Short-circuit indication per channel/Signalisation de court-circuit par canal, KSV = Kurzschlussmeldung pro Sensorversorgung/Steckverbinder/Short-circuit indication per sensor supply/connector/Signalisation de court-circuit par alimentation de détecteur/connecteur

Typenbezeichnung Type Type	Maßbild Dimension drawing Schéma dimensionnel	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation		Bus		
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Diagnose Diagnostics Diagnostic	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.	
FXEN-IM16-0001-MB²⁾	(A)	6825411	2 x 7/8" (F021)	UB	2 x M12 (F252)	10 / 100 MBit/s	
FXEN-XSG16-0001-MB²⁾	(A)	6825412	2 x 7/8" (F021)	UB, UL	2 x M12 (F252)	10 / 100 MBit/s	
FXEN-IM16-0001-IP²⁾	(A)	6825413	2 x 7/8" (F021)	UB	2 x M12 (F252)	10 / 100 MBit/s	
FXEN-XSG16-0001-IP²⁾	(A)	6825414	2 x 7/8" (F021)	UB, UL	2 x M12 (F252)	10 / 100 MBit/s	
FXEN-IM16-0001-IP-DN^{2,3)}	(A)	6825415	2 x 7/8" (F059)	UB, UL	2 x M12 (F252)	10 / 100 MBit/s	
FXEN-IM16-0001-PN²⁾	(A)	6825416	2 x 7/8" (F021)	UB	2 x M12 (F252)	10 / 100 MBit/s	
FXEN-XSG16-0001-PN²⁾	(A)	6825417	2 x 7/8" (F021)	UB, UL	2 x M12 (F252)	10 / 100 MBit/s	

(F252)	(F253)	(F254)
<p>C10 C11</p>	<p>C0...C7</p>	<p>C0...C7</p>

²⁾ Integrierter Switch/Integrated switch/Interrupteur intégré

³⁾ Integrierter DeviceNet™-Master/Integrated DeviceNet™ master/Maitre DeviceNet™ intégré

piconet® – Performance individuell und kompakt konfigurieren

piconet®-Feldbusmodule erfüllen mit kleinsten Abmessungen die höchsten industriellen Anforderungen. Die vollvergossenen IP67-Module lassen sich ohne weitere Schutzmaßnahmen direkt in die Maschine und Anlage einbauen. Ob als Stand-alone-Modul oder als Koppelmodul mit LWL-Subnet und kostengünstigen Erweiterungsmodulen: Die flexiblen *piconet®*-Module bieten nahezu unbegrenzte Einsatzmöglichkeiten.

Offen auch für zukünftige Bustechnologien

- Durch Gatewaykonzept offen für unterschiedliche Bustechnologien
- Gateway für alle gängigen Feldbus-systeme wie PROFIBUS-DP, DeviceNet™, CANopen, INTERBUS, MODBUS TCP, EtherNet/IP und PROFINET.
- Erweiterungsmodule unabhängig vom überlagerten Feldbusssystem

Wirtschaftliche Dezentralisierung

- Koppelmodul zur Vernetzung des überlagerten, offenen Feldbusses mit den kostengünstigen Erweiterungsmodulen
- LWL-Subnet „IP-Link“ zur Anbindung von bis zu 120 Erweiterungsmodulen über ein Koppelmodul
- Lichtschnell, 1000 E/As in ca. 1 ms über die störungssichere und vorkonfektionierte LWL-Verbindung
- LWL-Länge zwischen zwei IP-Link-Teilnehmern bis zu 15 m

Kompakte und robuste Bauform

- Nur 26,5 mm hoch, 30 mm breit und 210, 175 oder 126 mm lang
- Vollvergossenes IP67-Gehäuse
- Direkt in der Maschine einsetzbar
- Ideal für den Sonder- und Serienmaschinenbau sowie diverse Feldapplikationen

Eine sichere Verbindung

- M8 x 1, M12 x 1, M23 x 1
- Vorkonfektionierte Bus-, LWL- sowie Power- und E/A-Kabel
- Selbstkonfektioniierbare Steckverbinder
- Infrastrukturelle Komponenten wie T-Stücke, Abschlusswiderstände etc.

piconet® – Performance individual and compact configuration

With their miniature dimensions, *piconet®* fieldbus modules fulfil the highest industrial requirements. The fully encapsulated IP67 modules can be mounted directly at the machine or installation without any further protective measures.

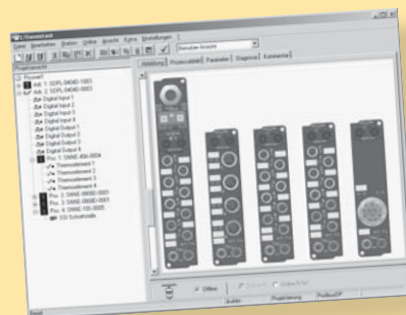
Whether as stand-alone or coupling modules with the fibre-optic subnet and inexpensive extension modules: The flexible *piconet®* modules offer almost unlimited application possibilities.

Also ready for future bus technologies

- With Gateway concept open for different bus technologies
- Gateway for all conventional fieldbus systems such as PROFIBUS-DP, DeviceNet™, CANopen, INTERBUS, MODBUS TCP, EtherNet/IP and PROFINET
- Extension modules independent of higher-level fieldbus system

EINFACHE PROJEKTIERUNG MIT DEM „I/O-ASSISTANT“

- Unterstützendes Software-Tool
- Offline-Planung und-Projektierung
- Konfiguration, Parametrierung und Inbetriebnahme einzelner Module
- Lesen und Setzen von Prozessdaten
- Inbetriebnahnehilfe bei der Überprüfung der Verdrahtung und Sensorik ohne SPS
- Realitätsgetreue Darstellung der projektierten Komponenten
- Automatische Dokumentation projektiertes Systeme



***piconet*[®] – Configurer la performance d’une façon individuelle et compacte**

Economic decentralisation

- Coupling module for networking of the higher-level, open fieldbus with the inexpensive extension modules
- Fibre-optic subnet “IP-Link” for connection of up to 120 extension modules via a coupling module
- Fast as light, 1000 I/Os in approx. 1 ms via the malfunction-free and prefabricated fibre-optic connection
- Fibre-optic length between two IP-Link nodes up to 15 m

Compact and robust construction

- Only 26.5 mm high, 30 mm wide and 210, 175 or 126 mm long
- Fully encapsulated IP67 housing
- Can be used directly at the machine
- Ideally suited for special and serial machine engineering as well as different field applications

A safe connection

- M8 x 1, M12 x 1, M23 x 1
- Prefabricated bus, fibre-optic as well as power and I/O cables
- Field-wireable connectors
- Infrastructural components such as T pieces, terminating resistors, etc.

Avec ses dimensions très petites, les modules pour bus de terrain *piconet*[®] sont destinés aux applications industrielles très exigeantes. Les modules IP67 entièrement surmoulés permettent un montage direct dans la machine et l’installation sans prise de mesures de protection supplémentaires. Soit comme module stand-alone, soit comme module coupleur avec sous-réseau pour fibres optiques en combinaison avec des modules d’extension avantageux: les modules *piconet*[®] flexibles vous offrent des possibilités d’applications presque illimitées.

Accessibilité aux technologies bus futures

- Grâce à la conception des passerelles accessible aux différentes technologies bus
- Passerelle pour tous les systèmes bus de terrain courants tels que PROFIBUS-DP, DeviceNet™, CANopen, INTERBUS, MODBUS TCP, EtherNet/IP et PROFINET
- Modules d’extension indépendants du système de bus de terrain supérieur

Décentralisation économique

- Module coupleur pour la mise en réseau du bus de terrain supérieur ouvert avec les modules d’extension avantageux
- Sous-réseau pour fibres optiques „IP-Link“ pour la connexion de 120 modules d’extension au maximum par un module coupleur
- Très rapide, 1000 E/S en env. 1 ms par la connexion à fibre optique préconfectionnée et antiparasite
- Longueur de la fibre optique entre deux participants IP-Link jusqu’à 15 m

Format compact et robuste

- Hauteur de 26,5 mm, largeur de 30 mm et longueur de 210, 175 ou de 126 mm seulement
- Boîtier IP67 entièrement surmoulé
- Montage direct dans la machine
- Idéal pour la construction de machines de série et spéciales ou pour plusieurs applications de terrain

Une connexion sûre

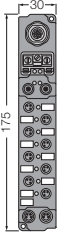

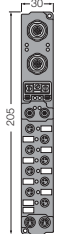
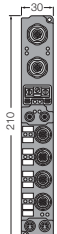
- M8 x 1, M12 x 1, M23 x 1
- Câbles préconfectionnés pour bus, fibre optique, alimentation et E/S
- Connecteurs confectionnables
- Composants d’infrastructure tels que raccords en T, résistances de fin de ligne etc.

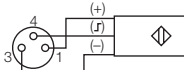
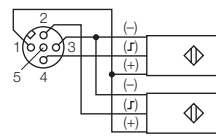
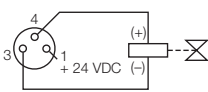
SIMPLE ENGINEERING WITH THE „I/O-ASSISTANT“

- Supporting software tool
- Offline planning and engineering
- Configuration, parameterisation and set-up of individual modules
- Reading and setting of process data
- Commissioning assistance with the testing of the wiring and sensors without a PLC
- Realistic representation of the engineered components
- Automatic documentation of engineered systems

PLANIFICATION FACILE PAR LE „I/O-ASSISTANT“



- Instrument de logiciel supplémentaire
- Planification et projection offline
- Configuration, paramétrage et mise en service de modules individuels
- Lecture et entrée de données de processus
- Aide de mise en service lors du contrôle du câblage et des détecteurs sans PLC
- Représentation réaliste des composants projetés
- Documentation automatique des systèmes projetés

Bauform Housing style Format	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties			
	Anzahl Number Quantité	Signal Signal Signal	Filter Filter Filtre [ms]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal Signal [A]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)	
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)	
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)	
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)	

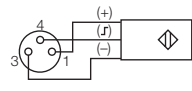
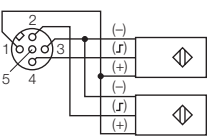
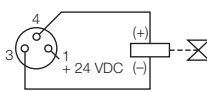
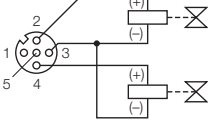
Anschlussbelegung Pin configuration Schéma de raccordement	(F017)	(F018)	(F019)	
	<p>3-wire pnp sensor</p> 	<p>3-wire pnp sensor</p> 	<p>DC actuator</p> 	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
			SDPL-0404D-0003 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824173
SDPL-0404D-0004 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824175	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPL-0404D-1003 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824450	2 x M8 (F081)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s
SDPL-0404D-1004 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824451	2 x M8 (F081)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s

(F020)	(F081)	(F083)	(F084)
<p>DC actuator</p>	<p>1 = 24 VDC U_B 2 = 24 VDC U_L 3 = GND 4 = GND</p> <p>$I_{Bmax} = I_{Lmax} = 4 A$</p>	<p>1 = 5 VDC 2 = BUS-A 3 = GND 4 = BUS-B 5 = shield</p>	<p>1 = n.c. 2 = BUS-A 3 = GND 4 = BUS-B 5 = shield</p>

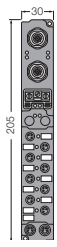
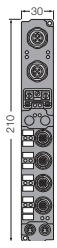
Bauform Housing style Format	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties		
	Anzahl Number Quantité	Signal Signal Signal	Filter Filter Filtre [ms]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal Signal [A]	Verbindungstechnik Connection Connexion (Fig. Fxxx)
	8	pnp	3	8 x M8 (F017)			
	8	pnp	0,2	8 x M8 (F017)			
					8	0.5	8 x M8 (F019)
					8	2 (Σ 4)	8 x M8 (F019)
					8	2 (Σ 12)	8 x M8 (F019)
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)
	4	pnp	0,2	4 x M8 (F017)	4	0.5	4 x M8 (F019)
	4	pnp	3	4 x M8 (F017)	4	2 (Σ 4)	4 x M8 (F019)
	4	pnp	0,2	4 x M8 (F017)	4	2 (Σ 4)	4 x M8 (F019)
	8	pnp	3	8 x M8 (F024)	8	0.5	8 x M8 (F025)
	8	pnp	3	4 x M12 (F018)			
	8	pnp	0,2	4 x M12 (F018)			
					8	0.5	4 x M12 (F020)
					8	2 (Σ 4)	4 x M12 (F020)
					8	2 (Σ 12)	4 x M12 (F020)
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)
	4	pnp	0,2	2 x M12 (F018)	4	0.5	2 x M12 (F020)
	4	pnp	3	2 x M12 (F018)	4	2 (Σ 4)	2 x M12 (F020)
	4	pnp	0,2	2 x M12 (F018)	4	2 (Σ 4)	2 x M12 (F020)

Anschlussbelegung
Pin configuration
Schéma de raccordement

	(F017)	(F018)	(F019)	(F020)
3-wire pnp sensor				

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
SDPB-0800D-0007	6824058	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0800D-0008	6824048	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0008D-0006	6824057	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0008D-0002	6824056	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0008D-0004	6824064	2 x M8 (F082)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0404D-0003	6824114	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0404D-0001	6824049	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0404D-0007	6824119	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0404D-0005	6824116	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0808D-0001	6824167	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0800D-0004	6824071	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0800D-0002	6824070	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0008D-0001	6824061	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0008D-0003	6824063	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0008D-0005	6824066	2 x M8 (F082)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0404D-0004	6824115	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0404D-0002	6824113	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0404D-0008	6824111	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-0404D-0006	6824118	2 x M8 (F081)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s

(F024)	(F025)	(F081)	(F082)	(F083)
<p>3-wire pnp sensor</p>	<p>DC actuator</p>	<p>1 = 24 VDC U_B 2 = 24 VDC U_L 3 = GND 4 = GND</p> <p>$I_{Bmax} = I_{Lmax} = 4 A$</p>	<p>1 = +24 VDC U_B 2 = +24 VDC U_L IN 0...3</p> <p>1 = +24 VDC U_L 2 = +24 VDC U_L IN 6, 7 3 = GND 4 = GND</p>	<p>1 = 5 VDC 2 = BUS-A 3 = GND 4 = BUS-B 5 = shield</p>


Bauform Housing style Format	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties		
	Anzahl Number Quantité	Signal Signal Signal	Filter Filter Filtre [ms]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal Signal [A]	Verbindungstechnik Connection Connexion (Fig. Fxxx)
	8	pnp	3	8 x M8 (F017)			
	8	pnp	0,2	8 x M8 (F017)			
					8	0.5	8 x M8 (F019)
					8	2 (Σ 4)	8 x M8 (F019)
					8	2 (Σ 12)	8 x M8 (F019)
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)
	4	pnp	0,2	4 x M8 (F017)	4	0.5	4 x M8 (F019)
	4	pnp	3	4 x M8 (F017)	4	2 (Σ 4)	4 x M8 (F019)
	4	pnp	0,2	4 x M8 (F017)	4	2 (Σ 4)	4 x M8 (F019)
	8	pnp	3	8 x M8 (F024)	8	0.5	8 x M8 (F025)
	8	pnp	3	4 x M12 (F018)			
	8	pnp	0,2	4 x M12 (F018)			
					8	0.5	4 x M12 (F020)
					8	2 (Σ 4)	4 x M12 (F020)
					8	2 (Σ 12)	4 x M12 (F020)
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)
	4	pnp	0,2	2 x M12 (F018)	4	0.5	2 x M12 (F020)
	4	pnp	3	2 x M12 (F018)	4	2 (Σ 4)	2 x M12 (F020)
4	pnp	0,2	2 x M12 (F018)	4	2 (Σ 4)	2 x M12 (F020)	

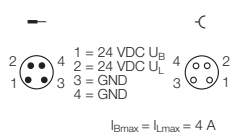
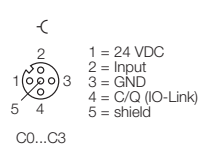
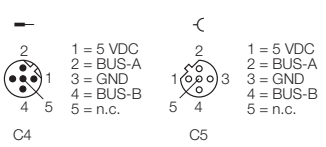
Anschlussbelegung Pin configuration Schéma de raccordement	(F017)	(F018)	(F019)	(F020)
	3-wire pnp sensor 	3-wire pnp sensor 	DC actuator 	DC actuator

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus		Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
			Verbindungstechnik Connection Connexion (Fig. Fxxx)		
SDPB-0800D-1007	6824409	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0800D-1008	6824407	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0008D-1006	6824415	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0008D-1002	6824405	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0008D-1004	6824420	2 x M8 (F082)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0404D-1003	6824423	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0404D-1001	6824426	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0404D-1007	6824429	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0404D-1005	6824432	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0808D-1001	6824435	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0800D-1004	6824410	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0800D-1002	6824412	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0008D-1001	6824416	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0008D-1003	6824418	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0008D-1005	6824421	2 x M8 (F082)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0404D-1004	6824424	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0404D-1002	6824427	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0404D-1008	6824430	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s
SDPB-0404D-1006	6824433	2 x M8 (F081)	2 x M12 (F084)		9,6 kBit/s ... 12 MBit/s





(F024)	(F025)	(F081)	(F082)	(F084)
<p>3-wire pnp sensor</p>	<p>DC actuator</p>	<p>$I_{Bmax} = I_{Lmax} = 4 A$</p>		

Feldbusstechnik/Fieldbus Technology/
Technique du bus de terrain

Bauform Housing style Format	Eingänge/Inputs/Entrées (Pin 2)				Eingänge/Inputs/Entrées (Pin 4)		
	Anzahl Number Quantité	Signal Signal Signal	Filter Filter Filtre [ms]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal Signal	Verbindungstechnik Connection Connexion (Fig. Fxxx)
	4	pnp	-	4 x M12 (F255)	4	I/O-Link/ Standard I/O	4 x M12 (F255)

Anschlussbelegung Pin configuration Schéma de raccordement	(F081)	(F255)	(F256)
	 <p>$I_{\text{max}} = I_{\text{Lmax}} = 4 \text{ A}$</p>	 <p>C0...C3</p>	 <p>C4 C5</p>

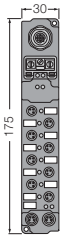
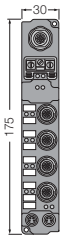
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus Verbindungstechnik Connection Connexion (Fig. Fxxx)		Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
SDPX-IOL4-0001	6825480	2 x M8 (F081)	2 x M12 (F256)		9,6 kBit/s ... 12 MBit/s

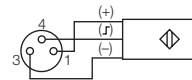
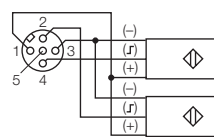
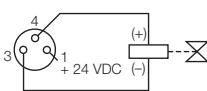
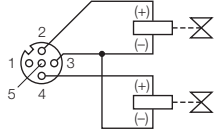
Bauform Housing style Format	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties			
	Anzahl Number Quantité	Signal Signal Signal	Filter Filter Filtre [ms]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal Signal [A]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)	
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)	
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)	
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)	

Anschlussbelegung Pin configuration Schéma de raccordement	(F017)	(F018)	(F019)	
	<p>3-wire pnp sensor</p>	<p>3-wire pnp sensor</p>	<p>DC actuator</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
			SDNL-0404D-0003 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824227
SDNL-0404D-0004 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824225	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNL-0404D-1003 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824457	2 x M8 (F081)	2 x M12 (F085)	125 kBit/s ... 500 kBit/s
SDNL-0404D-1004 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824453	2 x M8 (F081)	2 x M12 (F085)	125 kBit/s ... 500 kBit/s

(F020)	(F031)	(F081)	(F085)
<p>DC actuator</p>	<ul style="list-style-type: none"> 1 = Shield 2 = RD (V +) 3 = BK (V -) 4 = WH (CAN H) 5 = BU (CAN L) 	<ul style="list-style-type: none"> 1 = 24 VDC U_B 2 = 24 VDC U_L 3 = GND 4 = GND <p>I_{Bmax} = I_{Lmax} = 4 A</p>	<ul style="list-style-type: none"> 1 = shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L

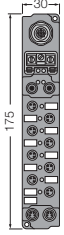
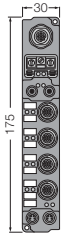
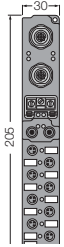
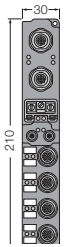
Bauform Housing style Format	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties		
	Anzahl Number Quantité	Signal Signal Signal	Filter Filter Filtre	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal Signal [A]	Verbindungstechnik Connection Connexion (Fig. Fxxx)
			[ms]				
	8	pnp	3	8 x M8 (F017)			
	8	pnp	0,2	8 x M8 (F017)			
					8	0.5	8 x M8 (F019)
					8	2 (Σ 4)	8 x M8 (F019)
					8	2 (Σ 12)	8 x M8 (F019)
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)
	4	pnp	0,2	4 x M8 (F017)	4	0.5	4 x M8 (F019)
	4	pnp	3	4 x M8 (F017)	4	2 (Σ 4)	4 x M8 (F019)
	4	pnp	0,2	4 x M8 (F017)	4	2 (Σ 4)	4 x M8 (F019)
	8	pnp	3	8 x M8 (F024)	8	0.5	8 x M8 (F025)
	8	pnp	3	4 x M12 (F018)			
	8	pnp	0,2	4 x M12 (F018)			
					8	0.5	4 x M12 (F020)
					8	2 (Σ 4)	4 x M12 (F020)
					8	2 (Σ 12)	4 x M12 (F020)
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)
	4	pnp	0,2	2 x M12 (F018)	4	0.5	2 x M12 (F020)
	4	pnp	3	2 x M12 (F018)	4	2 (Σ 4)	2 x M12 (F020)
4	pnp	0,2	2 x M12 (F018)	4	2 (Σ 4)	2 x M12 (F020)	

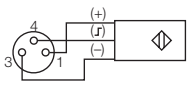
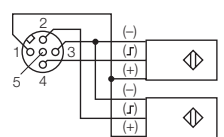
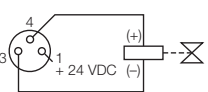
Anschlussbelegung Pin configuration Schéma de raccordement	(F017)	(F018)	(F019)	(F020)
	3-wire pnp sensor 	3-wire pnp sensor 	DC actuator 	DC actuator 

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
SDNB-0800D-0007	6824043	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0800D-0008	6824044	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0008D-0006	6824041	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0008D-0002	6824053	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0008D-0004	6824084	2 x M8 (F082)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0404D-0003	6824103	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0404D-0001	6824045	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0404D-0007	6824109	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0404D-0005	6824106	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0808D-0001	6824169	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0800D-0004	6824091	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0800D-0002	6824090	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0008D-0001	6824081	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0008D-0003	6824083	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0008D-0005	6824086	2 x M8 (F082)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0404D-0004	6824105	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0404D-0002	6824102	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0404D-0008	6824100	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0404D-0006	6824108	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s

(F024)	(F025)	(F031)	(F081)	(F082)
<p>3-wire pnp sensor</p>	<p>DC actuator</p>	<p>1 = Shield 2 = RD (V +) 3 = BK (V -) 4 = WH (CAN H) 5 = BU (CAN L)</p>	<p>1 = 24 VDC U_B 2 = 24 VDC U_L 3 = GND 4 = GND</p> <p>I_{Bmax} = I_{Lmax} = 4 A</p>	<p>1 = +24 VDC U_B 2 = +24 VDC U_L IN 0...3 3 = GND 4 = GND</p> <p>1 = +24 VDC U_L IN 4, 5 2 = +24 VDC U_L IN 6, 7 3 = GND 4 = GND</p>

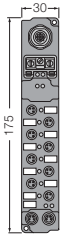
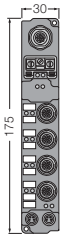
Feldbusstechnik/Fieldbus Technology/
Technique du bus de terrain

Bauform Housing style Format	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties			
	Anzahl Number Quantité	Signal Signal Signal	Filter Filter Filtre [ms]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal Signal [A]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)	
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)	
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)	
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)	

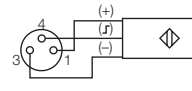
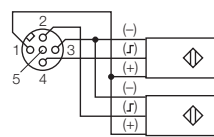
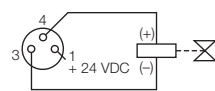
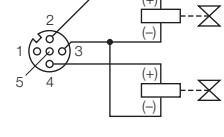
Anschlussbelegung Pin configuration Schéma de raccordement	(F017)	(F018)	(F019)	
	<p>3-wire pnp sensor</p> 	<p>3-wire pnp sensor</p> 	<p>DC actuator</p> 	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus		Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
			Verbindungstechnik Connection Connexion (Fig. Fxxx)		
SCOL-0404D-0003 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824221	2 x M8 (F081)	1 x M12 (F031)		10 kBit/s ... 1 MBit/s
SCOL-0404D-0004 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824219	2 x M8 (F081)	1 x M12 (F031)		10 kBit/s ... 1 MBit/s
SCOL-0404D-1003 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824454	2 x M8 (F081)	2 x M12 (F085)		10 kBit/s ... 1 MBit/s
SCOL-0404D-1004 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824456	2 x M8 (F081)	2 x M12 (F085)		10 kBit/s ... 1 MBit/s

(F020)	(F031)	(F081)	(F085)
<p>DC actuator</p>		<p>$I_{Bmax} = I_{Lmax} = 4 A$</p>	

Bauform Housing style Format	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties		
	Anzahl Number Quantité	Signal Signal Signal	Filter Filter Filtre	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal Signal	Verbindungstechnik Connection Connexion (Fig. Fxxx)
			[ms]			[A]	
	8	pnp	3	8 x M8 (F017)			
	8	pnp	0,2	8 x M8 (F017)			
					8	0.5	8 x M8 (F019)
					8	2 (Σ 4)	8 x M8 (F019)
					8	2 (Σ 12)	8 x M8 (F019)
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)
	4	pnp	0,2	4 x M8 (F017)	4	0.5	4 x M8 (F019)
	4	pnp	3	4 x M8 (F017)	4	2 (Σ 4)	4 x M8 (F019)
	4	pnp	0,2	4 x M8 (F017)	4	2 (Σ 4)	4 x M8 (F019)
	8	pnp	3	8 x M8 (F024)	8	0.5	8 x M8 (F025)
	8	pnp	3	4 x M12 (F018)			
	8	pnp	0,2	4 x M12 (F018)			
					8	0.5	4 x M12 (F020)
					8	2 (Σ 4)	4 x M12 (F020)
					8	2 (Σ 12)	4 x M12 (F020)
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)
	4	pnp	0,2	2 x M12 (F018)	4	0.5	2 x M12 (F020)
	4	pnp	3	2 x M12 (F018)	4	2 (Σ 4)	2 x M12 (F020)
	4	pnp	0,2	2 x M12 (F018)	4	2 (Σ 4)	2 x M12 (F020)

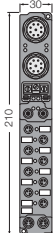
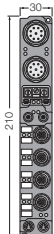
Anschlussbelegung
Pin configuration
Schéma de raccordement

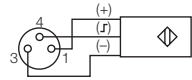
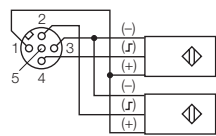
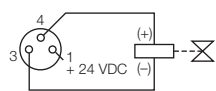
	(F017)	(F018)	(F019)	(F020)
3-wire pnp sensor				

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
SCOB-0800D-0007	6824149	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0800D-0008	6824151	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0008D-0006	6824130	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0008D-0002	6824124	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0008D-0004	6824127	2 x M8 (F082)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0404D-0003	6824136	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0404D-0001	6824133	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0404D-0007	6824142	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0404D-0005	6824139	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0808D-0001	6824171	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0800D-0004	6824148	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0800D-0002	6824147	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0008D-0001	6824123	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0008D-0003	6824126	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0008D-0005	6824129	2 x M8 (F082)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0404D-0004	6824138	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0404D-0002	6824135	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0404D-0008	6824144	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s
SCOB-0404D-0006	6824141	2 x M8 (F081)	1 x M12 (F031)	10 kBit/s ... 1 MBit/s

(F024)	(F025)	(F031)	(F081)	(F082)
<p>3-wire pnp sensor</p>	<p>DC actuator</p>	<p>1 = Shield 2 = RD (V +) 3 = BK (V -) 4 = WH (CAN H) 5 = BU (CAN L)</p>	<p>1 = 24 VDC U_B 2 = 24 VDC U_L 3 = GND 4 = GND</p> <p>I_{Bmax} = I_{Lmax} = 4 A</p>	<p>1 = +24 VDC U_B 2 = +24 VDC U_L IN 0...3 3 = GND 4 = GND</p> <p>1 = +24 VDC U_B IN 4, 5 2 = +24 VDC U_L IN 6, 7 3 = GND 4 = GND</p>

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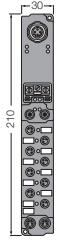
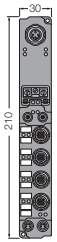
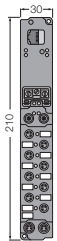

Bauform Housing style Format	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties			
	Anzahl Number Quantité	Signal Signal Signal	Filter Filter Filtre [ms]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal Signal [A]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)	
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)	

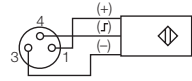
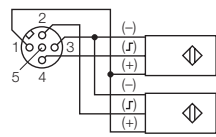
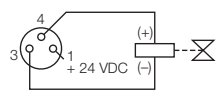
Anschlussbelegung Pin configuration Schéma de raccordement	(F017)	(F018)	(F019)	
	<p>3-wire pnp sensor</p> 	<p>3-wire pnp sensor</p> 	<p>DC actuator</p> 	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation	Bus	
		Verbindungstechnik Connection Connexion (Fig. Fxxx)	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
SIBL-0404D-0003 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824224	2 x M8 (F081)	2 x M23 (F0109)	500 kBit/s
SIBL-0404D-0004 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824222	2 x M8 (F081)	2 x M23 (F109)	500 kBit/s

(F020)	(F081)	(F109)
<p>DC actuator</p>		


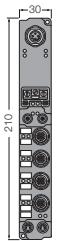
Feldbusstechnik/Fieldbus Technology/
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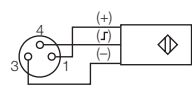
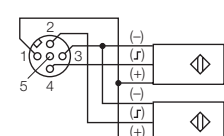
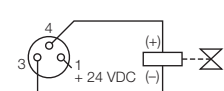
Bauform Housing style Format	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties			
	Anzahl Number Quantité	Signal Signal Signal	Filter Filter Filtre [ms]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal Signal [A]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)	
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)	
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)	
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)	

Anschlussbelegung Pin configuration Schéma de raccordement	(F017)	(F018)	(F019)	
	<p>3-wire pnp sensor</p> 	<p>3-wire pnp sensor</p> 	<p>DC actuator</p> 	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus		Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
			Verbindungstechnik Connection Connexion (Fig. Fxxx)		
SENL-0404D-0001 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824480	2 x M8 (F081)	1 x M12 (F120)		10 MBit/s / 100 MBit/s
SENL-0404D-0002 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824481	2 x M8 (F081)	1 x M12 (F120)		10 MBit/s / 100 MBit/s
SENL-0404D-0003 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824242	2 x M8 (F081)	1 x RJ45 (F105)		10 MBit/s / 100 MBit/s
SENL-0404D-0004 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824240	2 x M8 (F081)	1 x RJ45 (F105)		10 MBit/s / 100 MBit/s

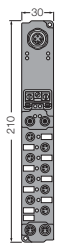
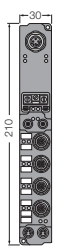
(F020)	(F081)	(F105)	(F120)
<p>DC actuator</p>	<p>1 = 24 VDC U_B 2 = 24 VDC U_L 3 = GND 4 = GND</p> <p>$I_{Bmax} = I_{Lmax} = 4 A$</p>	<p>1 = TX+ 2 = TX- 3 = RX+ 4 = n.c. 5 = n.c. 6 = RX- 7 = n.c. 8 = n.c.</p>	<p>1 = Tx + 2 = Rx + 3 = Tx - 4 = Rx -</p>

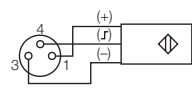
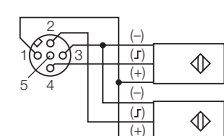
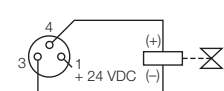
Bauform Housing style Format	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties			
	Anzahl Number Quantité	Signal Signal Signal	Filter Filter Filtre [ms]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal Signal [A]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)	
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)	

Anschlussbelegung Pin configuration Schéma de raccordement	(F017)	(F018)	(F019)	
	<p>3-wire pnp sensor</p> 	<p>3-wire pnp sensor</p> 	<p>DC actuator</p> 	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
SIPL-0404D-0003 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824472	2 x M8 (F081)	1 x M12 (F120)	10 MBit/s / 100 MBit/s
SIPL-0404D-0004 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824471	2 x M8 (F081)	1 x M12 (F120)	10 MBit/s / 100 MBit/s

(F020)	(F081)	(F120)
<p>DC actuator</p>	<p>1 = 24 VDC U_B 2 = 24 VDC U_L 3 = GND 4 = GND</p> <p>$I_{Bmax} = I_{Lmax} = 4 A$</p>	<p>1 = Tx + 2 = Rx + 3 = Tx - 4 = Rx -</p>

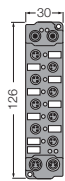
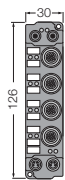
Bauform Housing style Format	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties			
	Anzahl Number Quantité	Signal Signal Signal	Filter Filter Filtre	Verbindungstechnik Connection Connexion	Anzahl Number Quantité	Signal Signal Signal	Verbindungstechnik Connection Connexion	
			[ms]	(Fig. Fxxx)		[A]	(Fig. Fxxx)	
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)	
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)	

Anschlussbelegung Pin configuration Schéma de raccordement	(F017)	(F018)	(F019)	
	<p>3-wire pnp sensor</p> 	<p>3-wire pnp sensor</p> 	<p>DC actuator</p> 	

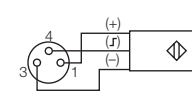
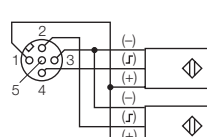
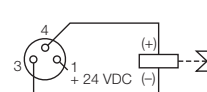
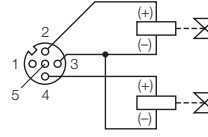
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
SPNL-0404D-0003 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824478	2 x M8 (F081)	1 x M12 (F120)	10 / 100 MBit/s
SPNL-0404D-0004 Erweiterungen/Extensions/Extensions siehe Seite/see page/voir page: 626	6824477	2 x M8 (F081)	1 x M12 (F120)	10 / 100 MBit/s

(F020)	(F081)	(F120)
<p>DC actuator</p>	<p> $I_{Bmax} = I_{Lmax} = 4 A$ </p>	

Digitale Ein-/Ausgabestationen, Erweiterungen, 24 VDC, IP67
Digital input/output stations, extensions, 24 VDC, IP67
Stations d'entrée/sortie digitales, extensions, 24 VDC, IP67

Bauform Housing style Format	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties		
	Anzahl Number Quantité	Signal Signal Signal	Filter Filter Filtre [ms]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal Signal [A]	Verbindungstechnik Connection Connexion (Fig. Fxxx)
	8	pnp	3	8 x M8 (F017)			
	8	pnp	0,2	8 x M8 (F017)			
					8	0.5	8 x M8 (F019)
					8	2 (Σ 4)	8 x M8 (F019)
					8	2 (Σ 12)	8 x M8 (F019)
	4	pnp	3	4 x M8 (F017)	4	0.5	4 x M8 (F019)
	4	pnp	0,2	4 x M8 (F017)	4	0.5	4 x M8 (F019)
	4	pnp	3	4 x M8 (F017)	4	2 (Σ 4)	4 x M8 (F019)
	4	pnp	0,2	4 x M8 (F017)	4	2 (Σ 4)	4 x M8 (F019)
	8	pnp	3	8 x M8 (F024)	8	0.5	8 x M8 (F025)
	8	pnp	3	4 x M12 (F018)			
	8	pnp	0,2	4 x M12 (F018)			
					8	0.5	4 x M12 (F020)
					8	2	4 x M12 (F020)
					8	2	4 x M12 (F020)
	4	pnp	3	2 x M12 (F018)	4	0.5	2 x M12 (F020)
	4	pnp	0,2	2 x M12 (F018)	4	0.5	2 x M12 (F020)
	4	pnp	3	2 x M12 (F018)	4	2	2 x M12 (F020)
	4	pnp	0,2	2 x M12 (F018)	4	2	2 x M12 (F020)


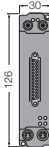
Anschlussbelegung
Pin configuration
Schéma de raccordement

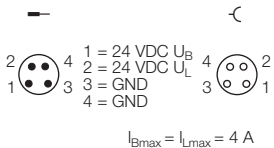
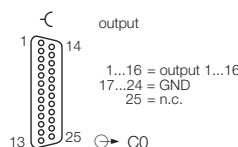
	(F017)	(F018)	(F019)	(F020)
3-wire pnp sensor				

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
SNNE-0800D-0007	6824204	2 x M8 (F081)	–	–
SNNE-0800D-0008	6824206	2 x M8 (F081)	–	–
SNNE-0008D-0006	6824185	2 x M8 (F081)	–	–
SNNE-0008D-0002	6824179	2 x M8 (F081)	–	–
SNNE-0008D-0004	6824182	2 x M8 (F082)	–	–
SNNE-0404D-0003	6824191	2 x M8 (F081)	–	–
SNNE-0404D-0001	6824188	2 x M8 (F081)	–	–
SNNE-0404D-0007	6824197	2 x M8 (F081)	–	–
SNNE-0404D-0005	6824194	2 x M8 (F081)	–	–
SNNE-0808D-0001	6824208	2 x M8 (F081)	–	–
SNNE-0800D-0004	6824203	2 x M8 (F081)	–	–
SNNE-0800D-0002	6824202	2 x M8 (F081)	–	–
SNNE-0008D-0001	6824178	2 x M8 (F081)	–	–
SNNE-0008D-0003	6824181	2 x M8 (F081)	–	–
SNNE-0008D-0005	6824184	2 x M8 (F082)	–	–
SNNE-0404D-0004	6824193	2 x M8 (F081)	–	–
SNNE-0404D-0002	6824190	2 x M8 (F081)	–	–
SNNE-0404D-0008	6824199	2 x M8 (F081)	–	–
SNNE-0404D-0006	6824196	2 x M8 (F081)	–	–

(F024)	(F025)	(F081)	(F082)
<p>3-wire pnp sensor</p>	<p>DC actuator</p>	<p>IBmax = ILmax = 4 A</p>	

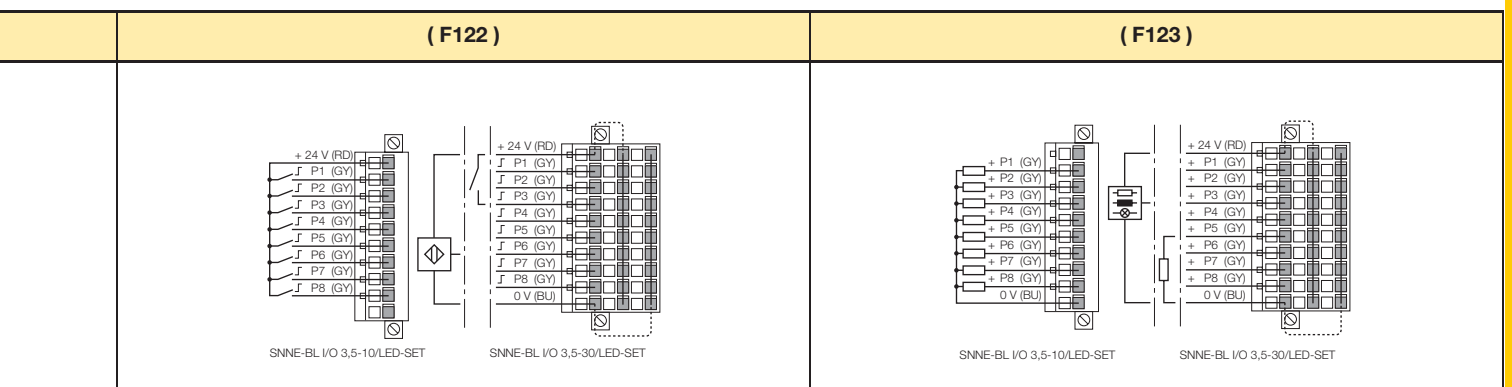
Digitale Ein-/Ausgabestationen, Erweiterungen, 24 VDC, IPxx¹⁾
Digital input/output stations, extensions, 24 VDC, IPxx¹⁾
Stations d'entrée/sortie digitales, extensions, 24 VDC, IPxx¹⁾

Bauform Housing style Format	Eingänge/Inputs/Entrées				Ausgänge/Outputs/Sorties			
	Anzahl Number Quantité	Signal Signal Signal	Filter Filter Filtre [ms]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Signal Signal Signal [A]	Verbindungstechnik Connection Connexion (Fig. Fxxx)	
	8	pnp	3	1 x (F122) Klemmen/ Terminals/ Bornes	8	0.5	1 x (F123) Klemmen/ Terminals/ Bornes	
					16	0,5	1 x SUB-D (F121)	

Anschlussbelegung Pin configuration Schéma de raccordement	(F081)	(F121)	
			

¹⁾ Schutzart je nach Zubehör/Protection degree depending on accessories/Degré de protection en fonction de l'accessoire

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
			SNNE-0808D-0003	6824473
SNNE-0016D-0002	6824476	2 x M8 (F081)	–	–



Analoge Ein-/Ausgabestationen, Stand-alone, IP67
Analogue input/output stations, stand-alone, IP67
Stations d'entrée/sortie analogiques, stand-alone, IP67

Bauform Housing style Format	Feldbus Fieldbus Bus de terrain	Eingänge/Inputs/Entrées			Ausgänge/Outputs/Sorties			
		Anzahl Number Quantité	Auflösung Resolution Résolution	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Auflösung Resolution Résolution	Verbindungstechnik Connection Connexion (Fig. Fxxx)	
	PROFIBUS-DP	4 (± 10 V)	16 Bit	4 x M12 (F087)				
	PROFIBUS-DP	4 (0...20 mA)	16 Bit	4 x M12 (F087)				
	PROFIBUS-DP	4 (Pt100)	0,1 °C / Digit	4 x M12 (F088)				
	PROFIBUS-DP	4 (Thermo.)	0,1 °C / Digit	4 x M12 (F086)				
	PROFIBUS-DP				4 (± 10 V)	16 Bit	4 x M12 (F089)	
	PROFIBUS-DP				4 (0...20 mA)	16 Bit	4 x M12 (F090)	
	PROFIBUS-DP	4 (± 10 V)	16 Bit	4 x M12 (F087)				
	PROFIBUS-DP	4 (0...20 mA)	16 Bit	4 x M12 (F087)				
	PROFIBUS-DP	4 (Pt100)	0,1 °C / Digit	4 x M12 (F088)				
	PROFIBUS-DP	4 (Thermo.)	0,1 °C / Digit	4 x M12 (F086)				
	PROFIBUS-DP				4 (± 10 V)	16 Bit	4 x M12 (F089)	
	PROFIBUS-DP				4 (0...20 mA)	16 Bit	4 x M12 (F090)	
	DeviceNet™	4 (± 10 V)	16 Bit	4 x M12 (F087)				
	DeviceNet™	4 (0...20 mA)	16 Bit	4 x M12 (F087)				
	DeviceNet™	4 (Pt100)	0,1 °C / Digit	4 x M12 (F088)				
	DeviceNet™	4 (Thermo.)	0,1 °C / Digit	4 x M12 (F086)				
	DeviceNet™				4 (± 10 V)	16 Bit	4 x M12 (F089)	
	DeviceNet™				4 (0...20 mA)	16 Bit	4 x M12 (F090)	
	CANopen	4 (± 10 V)	16 Bit	4 x M12 (F087)				
	CANopen	4 (0...20 mA)	16 Bit	4 x M12 (F087)				
	CANopen	4 (Pt100)	0,1 °C / Digit	4 x M12 (F088)				
	CANopen	4 (Thermo.)	0,1 °C / Digit	4 x M12 (F086)				
	CANopen				4 (± 10 V)	16 Bit	4 x M12 (F089)	
	CANopen				4 (0...20 mA)	16 Bit	4 x M12 (F090)	

Anschlussbelegung
Pin configuration
Schéma de raccordement

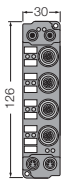
	(F031)	(F083)	(F084)	
	<p>1 = Shield 2 = RD (V +) 3 = BK (V -) 4 = WH (CAN H) 5 = BU (CAN L)</p>	<p>1 = 5 VDC 2 = BUS-A 3 = GND 4 = BUS-B 5 = shield</p>	<p>1 = n.c. 2 = BUS-A 3 = GND 4 = BUS-B 5 = shield</p>	

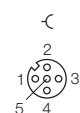
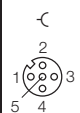
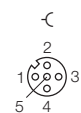
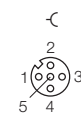
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
SDPB-40A-0005	6824051	2 x M8 (F091)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-40A-0007	6824052	2 x M8 (F091)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-40A-0009	6824040	2 x M8 (F091)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-40A-0004	6824050	2 x M8 (F091)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-04A-0007	6824069	2 x M8 (F091)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-04A-0009	6824059	2 x M8 (F091)	1 x M12 (F083)	9,6 kBit/s ... 12 MBit/s
SDPB-40A-1005	6824438	2 x M8 (F091)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s
SDPB-40A-1007	6824439	2 x M8 (F091)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s
SDPB-40A-1009	6824440	2 x M8 (F091)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s
SDPB-40A-1004	6824441	2 x M8 (F091)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s
SDPB-04A-1007	6824443	2 x M8 (F091)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s
SDPB-04A-1009	6824442	2 x M8 (F091)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s
SDNB-40A-0005	6824047	2 x M8 (F091)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-40A-0007	6824172	2 x M8 (F091)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-40A-0009	6824054	2 x M8 (F091)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-40A-0004	6824046	2 x M8 (F091)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-04A-0007	6824089	2 x M8 (F091)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-04A-0009	6824042	2 x M8 (F091)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SCOB-40A-0005	6824159	2 x M8 (F091)	1 x M12 (F031)	10 KBit/s ... 1 MBit/s
SCOB-40A-0007	6824055	2 x M8 (F091)	1 x M12 (F031)	10 KBit/s ... 1 MBit/s
SCOB-40A-0009	6824121	2 x M8 (F091)	1 x M12 (F031)	10 KBit/s ... 1 MBit/s
SCOB-40A-0004	6824158	2 x M8 (F091)	1 x M12 (F031)	10 KBit/s ... 1 MBit/s
SCOB-04A-0007	6824145	2 x M8 (F091)	1 x M12 (F031)	10 KBit/s ... 1 MBit/s
SCOB-04A-0009	6824146	2 x M8 (F091)	1 x M12 (F031)	10 KBit/s ... 1 MBit/s

(F086)	(F087)	(F088)	(F089)	(F090)	(F091)
<p>1 = compensation A 2 = input + 3 = GND 4 = input - 5 = shield ☉ C0...C3</p>	<p>1 = sensor supply U_L 2 = input + 3 = GND_L 4 = output - 5 = shield ☉ C0...C3</p>	<p>1 = RL + 2 = R + 3 = RL - 4 = R - 5 = shield ☉ C0...C3</p>	<p>1 = output +/- 2 = 24 VDC U_L 3 = output GND 4 = GND_L 5 = shield ☉ C0...C3</p>	<p>1 = output + 2 = 24 VDC U_L 3 = output - 4 = GND_L 5 = shield ☉ C0...C3</p>	<p>1 = 24 VDC U_B 2 = 24 VDC U_L 3 = GND_B 4 = GND_L $I_{Bmax} = I_{Lmax} = 4 \text{ A}$</p>

Feldbusstechnik/Fieldbus Technology/
Technique du bus de terrain

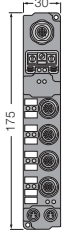
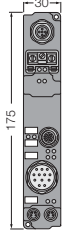
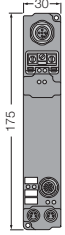
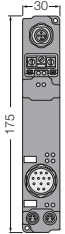
Analoge Ein-/Ausgabestationen, Erweiterungen, 24 VDC, IP67
Analogue input/output stations, extensions, 24 VDC, IP67
Stations d'entrée/sortie analogiques, extensions, 24 VDC, IP67

Bauform Housing style Format	Feldbus Fieldbus Bus de terrain	Eingänge/Inputs/Entrées			Ausgänge/Outputs/Sorties			
		Anzahl Number Quantité	Auflösung Resolution Résolution	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Anzahl Number Quantité	Auflösung Resolution Résolution	Verbindungstechnik Connection Connexion (Fig. Fxxx)	
		4 (± 10 V)	16 Bit	4 x M12 (F087)				
		4 (0...20 mA)	16 Bit	4 x M12 (F087)				
		4 (Pt100)	0,1 °C / Digit	4 x M12 (F088)				
		4 (Thermo.)	0,1 °C / Digit	4 x M12 (F086)				
					4 (± 10 V)	16 Bit	4 x M12 (F089)	
					4 (0...20 mA)	16 Bit	4 x M12 (F090)	

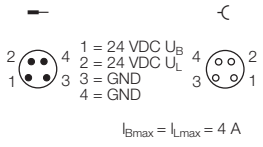
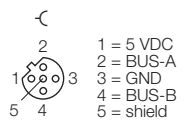
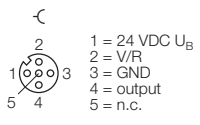
Anschlussbelegung Pin configuration Schéma de raccordement	(F086)	(F087)	(F088)	(F089)	
	 <p> 1 = compensation A 2 = input + 3 = GND - 4 = input - 5 = shield ⊕ C0...C3 </p>	 <p> 1 = sensor supply U_L 2 = input + 3 = GND_L 4 = output - 5 = shield ⊕ C0...C3 </p>	 <p> 1 = RL + 2 = R + 3 = RL - 4 = R - 5 = shield ⊕ C0...C3 </p>	 <p> 1 = output +/- 2 = 24 VDC U_L 3 = output GND 4 = GND_L 5 = shield ⊕ C0...C3 </p>	

	Typenbezeichnung	Ident-Nr.	Versorgung/Supply/Alimentation	Bus	
	Type	Ident no.	Verbindungstechnik Connection Connexion	Verbindungstechnik Connection Connexion	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
	Type	No. d'ident.	(Fig. Fxxx)	(Fig. Fxxx)	
	SNNE-40A-0005	6824216	2 x M8 (F091)	-	-
	SNNE-40A-0007	6824217	2 x M8 (F091)	-	-
	SNNE-40A-0009	6824176	2 x M8 (F091)	-	-
	SNNE-40A-0004	6824215	2 x M8 (F091)	-	-
	SNNE-04A-0007	6824200	2 x M8 (F091)	-	-
	SNNE-04A-0009	6824201	2 x M8 (F091)	-	-

	(F090)	(F091)
	<p> 1 = output + 2 = 24 VDC U_L 3 = output - 4 = GND_L 5 = shield ☞ C0...C3 </p>	<p> 1 = 24 VDC U_B 2 = 24 VDC U_L 3 = GND_B 4 = GND_L I_{Bmax} = I_{Lmax} = 4 A </p>

Bauform Housing style Format	Beschreibung Description Description	Verbindungstechnik Eingänge/Ausgänge Connection Inputs/Outputs Connexion Entrées/sorties	
	2-kanaliger Pulsweitenmodulator 24 VDC, 16 Bit/ 2-channel pulse width modulator 24 VDC, 16 Bit/ Modulateur d'impulsions en largeur à 2 canaux 24 VDC, 16 Bit	2 x M12 (F092)	
	2-kanaliger Vor-/Rückwärtszähler 24 VDC, 100 kHz/ 2-channel up/down counter 24 VDC, 100 kHz/ Compteur/décompteur à 2 canaux 24 VDC, 100 kHz	4 x M12 (F093)	
	1-kanaliges Inkremental-Encoder-Interface/ 1-channel incremental encoder interface/ Interface codeur incrémentale monocanale	1 x M23 (F110)	
	1-kanalige serielle Schnittstelle RS232/ 1-channel serial interface RS232/ Interface en série monocanale RS232	1 x M12 (F111)	
	1-kanalige serielle Schnittstelle 0...20 mA (TTY)/ 1-channel serial interface 0...20 mA (TTY)/ Interface en série monocanale 0...20 mA (TTY)	1 x M12 (F111)	
	1-kanalige serielle Schnittstelle RS485/ 1-channel serial interface RS485/ Interface en série monocanale RS485	1 x M12 (F111)	
	1-kanaliges SSI-Geber-Interface/ 1-channel SSI sensor interface/ Interface détecteur SSI monocanale	1 x M23 (F096)	


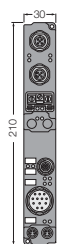
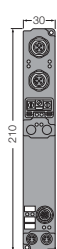
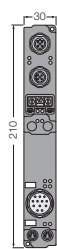
Anschlussbelegung
Pin configuration
Schéma de raccordement

(F081)	(F083)	(F092)	
 <p>$I_{Bmax} = I_{Lmax} = 4 \text{ A}$</p>			

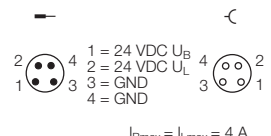
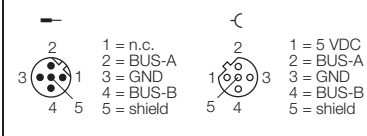
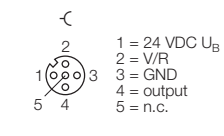
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus		Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
			Verbindungstechnik Connection Connexion (Fig. Fxxx)		
SDPB-0002D-0002	6824060	2 x M8 (F081)	1 x M12 (F083)		9,6 kBit/s ... 12 MBit/s
SDPB-0202D-0003	6824068	2 x M8 (F081)	1 x M12 (F083)		9,6 kBit/s ... 12 MBit/s
SDPB-10S-0001	6824074	2 x M8 (F081)	1 x M12 (F083)		9,6 kBit/s ... 12 MBit/s
SDPB-10S-0002	6824075	2 x M8 (F081)	1 x M12 (F083)		9,6 kBit/s ... 12 MBit/s
SDPB-10S-0003	6824076	2 x M8 (F081)	1 x M12 (F083)		9,6 kBit/s ... 12 MBit/s
SDPB-10S-0004	6824077	2 x M8 (F081)	1 x M12 (F083)		9,6 kBit/s ... 12 MBit/s
SDPB-10S-0005	6824078	2 x M8 (F081)	1 x M12 (F083)		9,6 kBit/s ... 12 MBit/s

(F093)	(F096)	(F110)	(F111)
<p>counter connection 1 = 24 VDC U_B 2 = clock 2 3 = GND 4 = clock 1 5 = shield</p> <p>up/down 1 = 24 VDC U_B 2 = up/down 2 3 = GND 4 = up/down 1 5 = shield</p> <p>gate signal 1 = 24 VDC U_B 2 = gate 2 3 = GND 4 = gate 1 5 = shield</p> <p>⊖ C0 ⊖ C1 ⊖ C2</p>	<p>1 = GND 7 = n.c. 2 = +24 VDC U_B 8 = n.c. 3 = Clock + 9 = n.c. 4 = Clock - 10 = n.c. 5 = Data + 11 = n.c. 6 = Data - 12 = n.c.</p>	<p>1 = B- 7 = Status - 2 = +5-VDC-Sensor 8 = B + 3 = Null + 9 = n.c. 4 = Null - 10 = GND 5 = A + 11 = GND 6 = A - 12 = +5-VDC-Sensor</p> <p>⊖ C1</p>	<p>1 = n.c. 2 = TxD 3 = GND 4 = RxD 5 = shield</p> <p>⊖ C3</p>

Feldbusstechnik/Fieldbus Technology/
Technique du bus de terrain

Bauform Housing style Format	Beschreibung Description Description	Verbindungstechnik Eingänge/Ausgänge Connection Inputs/Outputs Connexion Entrées/sorties	
	2-kanaliger Pulsweitenmodulator 24 VDC, 16 Bit/ 2-channel pulse width modulator 24 VDC, 16 Bit/ Modulateur d'impulsions en largeur à 2 canaux 24 VDC, 16 Bit	2 x M12 (F092)	
	2-kanaliger Vor-/Rückwärtszähler 24 VDC, 100 kHz/ 2-channel up/down counter 24 VDC, 100 kHz/ Compteur/décompteur à 2 canaux 24 VDC, 100 kHz	4 x M12 (F093)	
	1-kanaliges Inkremental-Encoder-Interface/ 1-channel incremental encoder interface/ Interface codeur incrémentale monocanale	1 x M23 (F110)	
	1-kanalige serielle Schnittstelle RS232/ 1-channel serial interface RS232/ Interface en série monocanale RS232	1 x M12 (F111)	
	1-kanalige serielle Schnittstelle 0...20 mA (TTY)/ 1-channel serial interface 0...20 mA (TTY)/ Interface en série monocanale 0...20 mA (TTY)	1 x M12 (F111)	
	1-kanalige serielle Schnittstelle RS485/ 1-channel serial interface RS485/ Interface en série monocanale RS485	1 x M12 (F111)	
	1-kanaliges SSI-Geber-Interface/ 1-channel SSI sensor interface/ Interface détecteur SSI monocanale	1 x M23 (F096)	


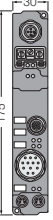
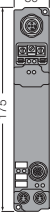

Anschlussbelegung
Pin configuration
Schéma de raccordement

(F081)	(F084)	(F092)	
 <p> $I_{Bmax} = I_{Lmax} = 4 \text{ A}$ </p>			

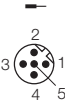
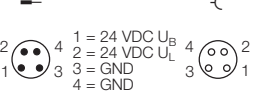
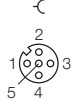
Typenbezeichnung Type Type	Ident-Nr. Ident. no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
SDPB-0002D-1002	6824437	2 x M8 (F081)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s
SDPB-0202D-1003	6824413	2 x M8 (F081)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s
SDPB-10S-1001	6824445	2 x M8 (F081)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s
SDPB-10S-1002	6824446	2 x M8 (F081)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s
SDPB-10S-1003	6824447	2 x M8 (F081)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s
SDPB-10S-1004	6824448	2 x M8 (F081)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s
SDPB-10S-1005	6824444	2 x M8 (F081)	2 x M12 (F084)	9,6 kBit/s ... 12 MBit/s

(F093)	(F096)	(F110)	(F111)
<p>counter connection 1 = 24 VDC U_B 2 = clock 2 3 = GND 4 = clock 1 5 = shield</p> <p>up/down 1 = 24 VDC U_B 2 = up/down 2 3 = GND 4 = up/down 1 5 = shield</p> <p>gate signal 1 = 24 VDC U_B 2 = gate 2 3 = GND 4 = gate 1 5 = shield</p> <p>⊖ C0 ⊖ C1 ⊖ C2</p>	<p>1 = GND 7 = n.c. 2 = +24 VDC U_B 8 = n.c. 3 = Clock + 9 = n.c. 4 = Clock - 10 = n.c. 5 = Data + 11 = n.c. 6 = Data - 12 = n.c.</p>	<p>1 = B- 7 = Status - 2 = +5-VDC-Sensor 8 = B + 3 = Null + 9 = n.c. 4 = Null - 10 = GND 5 = A+ 11 = GND 6 = A- 12 = +5-VDC-Sensor</p> <p>⊖ C1</p>	<p>1 = n.c. 2 = TxD 3 = GND 4 = RxD 5 = shield</p> <p>⊖ C3</p>

Feldbusstechnik/Fieldbus Technology/
Technique du bus de terrain


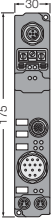


Bauform Housing style Format	Beschreibung Description Description	Verbindungstechnik Eingänge/Ausgänge Connection Inputs/Outputs Connexion Entrées/sorties	
	2-kanaliger Pulsweitenmodulator 24 VDC, 16 Bit/ 2-channel pulse width modulator 24 VDC, 16 Bit/ Modulateur d'impulsions en largeur à 2 canaux 24 VDC, 16 Bit	2 x M12 (F092)	
	2-kanaliger Vor-/Rückwärtszähler 24 VDC, 100 kHz/ 2-channel up/down counter 24 VDC, 100 kHz/ Compteur/décompteur à 2 canaux 24 VDC, 100 kHz	4 x M12 (F093)	
	1-kanaliges Inkremental-Encoder-Interface/ 1-channel incremental encoder interface/ Interface codeur incrémentale monocanale	1 x M23 (F110)	
	1-kanalige serielle Schnittstelle RS232/ 1-channel serial interface RS232/ Interface en série monocanale RS232	1 x M12 (F111)	
	1-kanalige serielle Schnittstelle 0...20 mA (TTY)/ 1-channel serial interface 0...20 mA (TTY)/ Interface en série monocanale 0...20 mA (TTY)	1 x M12 (F111)	
	1-kanalige serielle Schnittstelle RS485/ 1-channel serial interface RS485/ Interface en série monocanale RS485	1 x M12 (F111)	
	1-kanaliges SSI-Geber-Interface/ 1-channel SSI sensor interface/ Interface détecteur SSI monocanale	1 x M23 (F096)	

Anschlussbelegung
Pin configuration
Schéma de raccordement

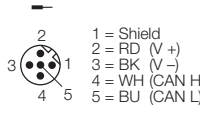
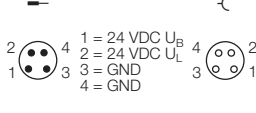
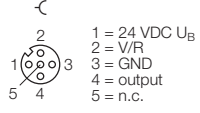
(F031)	(F081)	(F092)	
 <p>1 = Shield 2 = RD (V +) 3 = BK (V -) 4 = WH (CAN H) 5 = BU (CAN L)</p>	 <p>1 = 24 VDC U_B 2 = 24 VDC U_L 3 = GND 4 = GND</p> <p>$I_{Bmax} = I_{Lmax} = 4 A$</p>	 <p>1 = 24 VDC U_B 2 = V/R 3 = GND 4 = output 5 = n.c.</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
SDNB-0002D-0002	6824080	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-0202D-0003	6824088	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-10S-0001	6824094	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-10S-0002	6824095	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-10S-0003	6824096	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-10S-0004	6824097	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s
SDNB-10S-0005	6824098	2 x M8 (F081)	1 x M12 (F031)	125 kBit/s ... 500 kBit/s

(F093)	(F096)	(F110)	(F111)
<p>counter connection 1 = 24 VDC U_B 2 = clock 2 3 = GND 4 = clock 1 5 = shield</p> <p>up/down 1 = 24 VDC U_B 2 = up/down 2 3 = GND 4 = up/down 1 5 = shield</p> <p>gate signal 1 = 24 VDC U_B 2 = gate 2 3 = GND 4 = gate 1 5 = shield</p> <p>⊖ C0 ⊖ C1 ⊖ C2</p>	<p>1 = GND 2 = +24 VDC U_B 3 = Clock + 4 = Clock - 5 = Data + 6 = Data - 7 = n.c. 8 = n.c. 9 = n.c. 10 = n.c. 11 = n.c. 12 = n.c.</p>	<p>1 = B- 2 = +5-VDC-Sensor 3 = Null + 4 = Null - 5 = A+ 6 = A- 7 = Status - 8 = B+ 9 = n.c. 10 = GND 11 = GND 12 = +5-VDC-Sensor</p> <p>⊖ C1</p>	<p>1 = n.c. 2 = TXD 3 = GND 4 = RXD 5 = shield</p> <p>⊖ C3</p>

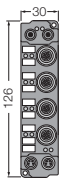
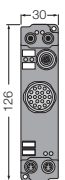
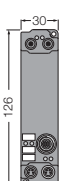
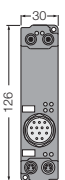
Bauform Housing style Format	Beschreibung Description Description	Verbindungstechnik Eingänge/Ausgänge Connection Inputs/Outputs Connexion Entrées/sorties	
	2-kanaliger Pulsweitenmodulator 24 VDC, 16 Bit/ 2-channel pulse width modulator 24 VDC, 16 Bit/ Modulateur d'impulsions en largeur à 2 canaux 24 VDC, 16 Bit	2 x M12 (F092)	
	2-kanaliger Vor-/Rückwärtszähler 24 VDC, 100 kHz/ 2-channel up/down counter 24 VDC, 100 kHz/ Compteur/décompteur à 2 canaux 24 VDC, 100 kHz	4 x M12 (F093)	
	1-kanaliges Inkremental-Encoder-Interface/ 1-channel incremental encoder interface/ interface codeur incrémentale monocanale	1 x M23 (F110)	
	1-kanalige serielle Schnittstelle RS232/ 1-channel serial interface RS232/ Interface en série monocanale RS232	1 x M12 (F111)	
	1-kanalige serielle Schnittstelle 0...20 mA (TTY)/ 1-channel serial interface 0...20 mA (TTY)/ Interface en série monocanale 0...20 mA (TTY)	1 x M12 (F111)	
	1-kanalige serielle Schnittstelle RS485/ 1-channel serial interface RS485/ Interface en série monocanale RS485	1 x M12 (F111)	
	1-kanaliges SSI-Geber-Interface/ 1-channel SSI sensor interface/ Interface détecteur SSI monocanale	1 x M23 (F096)	

Anschlussbelegung
Pin configuration
Schéma de raccordement


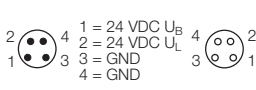

(F031)	(F081)	(F092)	
 <p>1 = Shield 2 = RD (V +) 3 = BK (V -) 4 = WH (CAN H) 5 = BU (CAN L)</p>	 <p>1 = 24 VDC U_B 2 = 24 VDC U_L 3 = GND 4 = GND</p> <p>$I_{Bmax} = I_{Lmax} = 4 A$</p>	 <p>1 = 24 VDC U_B 2 = V/R 3 = GND 4 = output 5 = n.c.</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
			SCOB-0002D-0002	6824122
SCOB-0202D-0003	6824132	2 x M8 (F081)	1 x M12 (F031)	10 KBit/s ... 1 MBit/s
SCOB-10S-0001	6824153	2 x M8 (F081)	1 x M12 (F031)	10 KBit/s ... 1 MBit/s
SCOB-10S-0002	6824154	2 x M8 (F081)	1 x M12 (F031)	10 KBit/s ... 1 MBit/s
SCOB-10S-0003	6824155	2 x M8 (F081)	1 x M12 (F031)	10 KBit/s ... 1 MBit/s
SCOB-10S-0004	6824156	2 x M8 (F081)	1 x M12 (F031)	10 KBit/s ... 1 MBit/s
SCOB-10S-0005	6824157	2 x M8 (F081)	1 x M12 (F031)	10 KBit/s ... 1 MBit/s

(F093)	(F096)	(F110)	(F111)
<p>counter connection 1 = 24 VDC U_B 2 = clock 2 3 = GND 4 = clock 1 5 = shield</p> <p>up/down 1 = 24 VDC U_B 2 = up/down 2 3 = GND 4 = up/down 1 5 = shield</p> <p>gate signal 1 = 24 VDC U_B 2 = gate 2 3 = GND 4 = gate 1 5 = shield</p> <p>⊖ C0 ⊖ C1 ⊖ C2</p>	<p>1 = GND 2 = +24 VDC U_B 3 = Clock + 4 = Clock - 5 = Data + 6 = Data -</p> <p>7 = n.c. 8 = n.c. 9 = n.c. 10 = n.c. 11 = n.c. 12 = n.c.</p>	<p>1 = B- 2 = +5-VDC-Sensor 3 = Null+ 4 = Null- 5 = A+ 6 = A- 7 = Status- 8 = B+ 9 = n.c. 10 = GND 11 = GND 12 = +5-VDC-Sensor</p> <p>⊖ C1</p>	<p>1 = n.c. 2 = TxD 3 = GND 4 = RxD 5 = shield</p> <p>⊖ C3</p>

Bauform Housing style Format	Beschreibung Description Description	Verbindungstechnik Eingänge/Ausgänge Connection Inputs/Outputs Connexion Entrées/sorties	
	2-kanaliger Pulsweitenmodulator 24 VDC, 16 Bit/ 2-channel pulse width modulator 24 VDC, 16 Bit/ Modulateur d'impulsions en largeur à 2 canaux 24 VDC, 16 Bit	2 x M12 (F092)	
	2-kanaliger Vor-/Rückwärtszähler 24 VDC, 100 kHz/ 2-channel up/down counter 24 VDC, 100 kHz/ Compteur/décompteur à 2 canaux 24 VDC, 100 kHz	4 x M12 (F093)	
	1-kanaliges Inkremental-Encoder-Interface/ 1-channel incremental encoder interface/ Interface codeur incrémentale monocanale	1 x M23 (F110)	
	1-kanalige serielle Schnittstelle RS232/ 1-channel serial interface RS232/ Interface en série monocanale RS232	1 x M12 (F111)	
	1-kanalige serielle Schnittstelle 0...20 mA (TTY)/ 1-channel serial interface 0...20 mA (TTY)/ Interface en série monocanale 0...20 mA (TTY)	1 x M12 (F111)	
	1-kanalige serielle Schnittstelle RS485/ 1-channel serial interface RS485/ Interface en série monocanale RS485	1 x M12 (F111)	
	1-kanaliges SSI-Geber-Interface/ 1-channel SSI sensor interface/ Interface détecteur SSI monocanale	1 x M23 (F096)	

Anschlussbelegung
Pin configuration
Schéma de raccordement

(F031)	(F081)	(F092)	
 <p>1 = Shield 2 = RD (V +) 3 = BK (V -) 4 = WH (CAN H) 5 = BU (CAN L)</p>	 <p>1 = 24 VDC U_B 2 = 24 VDC U_L 3 = GND 4 = GND</p> <p>I_{Bmax} = I_{Lmax} = 4 A</p>	 <p>1 = 24 VDC U_B 2 = V/R 3 = GND 4 = output 5 = n.c.</p>	

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus	
			Verbindungstechnik Connection Connexion (Fig. Fxxx)	Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
SNNE-0002D-0002	6824177	2 x M8 (F081)	-	-
SNNE-0202D-0003	6824187	2 x M8 (F081)	-	-
SNNE-10S-0001	6824210	2 x M8 (F081)	-	-
SNNE-10S-0002	6824211	2 x M8 (F081)	-	-
SNNE-10S-0003	6824212	2 x M8 (F081)	-	-
SNNE-10S-0004	6824213	2 x M8 (F081)	-	-
SNNE-10S-0005	6824214	2 x M8 (F081)	-	-

(F093)	(F096)	(F110)	(F111)
<p>counter connection 1 = 24 VDC UB 2 = clock 2 3 = GND 4 = clock 1 5 = shield</p> <p>up/down 1 = 24 VDC UB 2 = up/down 2 3 = GND 4 = up/down 1 5 = shield</p> <p>gate signal 1 = 24 VDC UB 2 = gate 2 3 = GND 4 = gate 1 5 = shield</p> <p>⊖ C0 ⊖ C1 ⊖ C2</p>	<p>1 = GND 2 = +24 VDC UB 3 = Clock + 4 = Clock - 5 = Data + 6 = Data -</p> <p>7 = n.c. 8 = n.c. 9 = n.c. 10 = n.c. 11 = n.c. 12 = n.c.</p> <p>⊖ C1</p>	<p>1 = B- 2 = +5-VDC-Sensor 3 = Null + 4 = Null - 5 = A+ 6 = A-</p> <p>7 = Status - 8 = B + 9 = n.c. 10 = GND 11 = GND 12 = +5-VDC-Sensor</p> <p>⊖ C1</p>	<p>1 = n.c. 2 = TxD 3 = GND 4 = RxD 5 = shield</p> <p>⊖ C3</p>

Feldbusstechnik/Fieldbus Technology/
Technique du bus de terrain

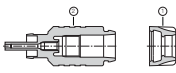
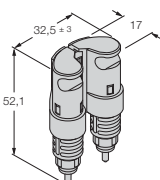

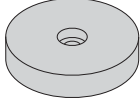
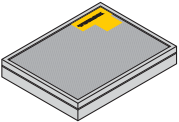
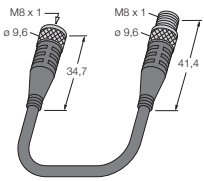
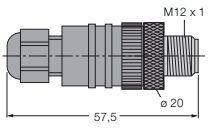
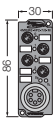
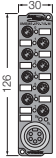
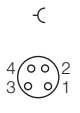
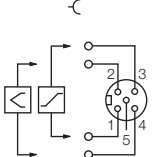
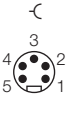
Abb. Fig. Fig.	Anwendung Application Application	Länge Length Longueur	Schleppkettenfähig Suited to trailing applications Utilisable sur chaînes de transport de câble	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	Konfektionierbarer IP-Link Stecker, 10 Stck. Field-wireable fibre-optic male connector, 10 pieces Connecteur confectionnable IP-Link, 10 pièces	–	–	SFOC-0002-10	6604094
	IP-Link Brücke, vorkonfektioniert IP-Link bridge, premoulded Pont IP-Link, préconfectionné	–	–	SFOB-0001	6603817
	IP-Link Lichtwellenleiter, vorkonfektioniert/ Premoulded fibre optic cordset/ Fibre optique IP-Link, préconfectionnée	0.2 m 0.25 m 0.3 m 0.5 m 1 m 2 m 3 m 5 m 10 m 15 m 500 m x m	• • • • • • • • • • • •	SFOL-0,2M SFOL-0,25M SFOL-0,3M SFOL-0,5M SFOL-1M SFOL-2M SFOL-3M SFOL-5M SFOL-10M SFOL-15M SFOF-500M-ROLLE SFOF-xM	6603379 6603750 6603382 6603383 6603384 6603385 6611279 6603386 6611280 6611281 6611086 6603393
	IP-Link Lichtwellenleiter, 500 m Rolle IP-Link fibre-optic, 500 m bulk cable Fibre optique IP-Link, bobine 500 m				
	IP-Link Lichtwellenleiter, x = Länge im Meter IP-Link fibre-optic, x = length in meters Fibre optique IP-Link, x = Longueur au mètre				

Abb. Fig. Fig.	Anwendung Application Application	Länge Length Longueur	Schleppkettenfähig Suited to trailing applications Utilisable sur chaînes de transport de câble	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	Schleiflehre zur optimalen Oberflächenvergütung der Stirnfläche des konvektionierten IP-Link-LWL Grinding gauge for optimal front face treatment of IP-Link fiber-optic cable Jauge de rectification pour le traitement de surface optimal de la face frontale du câble à fibre optique IP-Link préconfectionné	–	–	LWL-SL-SFOC-0002	6901180
	Lichtwellenleiter-Konfektionierungsset Fiber-optic assembly kit Kit d'assemblage pour fibre optique	–	–	LWL-KS-SFOC-0002	6601181
	Power-Brücke Power bridge Pont de courant <i>piconet</i> [®] -Versorgungsleitungen, siehe Seite 732 <i>piconet</i> [®] power supply cables, see page 732 Câbles d'alimentation pour <i>piconet</i> [®] , voir page 732	0.12 m	–	IPSK4-0,12-SSP/ S90/S2154	8030976

Abmessung Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection Connexion Fig. (Fxxx)	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	Kompensationsstecker für Thermoelement Compensation connector for thermo- element Connecteur de compensation pour thermocouple	1 x M12 (F039)	WAS5-THERMO	6824260
	4 kanaliger Energieverteiler, max. 4 A pro Kanal 4-port power junction, max. 4 A per channel Distributeur d'alimentation à 4 canaux, max. 4 A par canal	1 x 7/8" (F053) 4 x M8 (F028)	4MBM8-4P2-7/8-M <i>piconet</i> ®-Versorgungsleitungen: siehe Seite 732 <i>piconet</i> ®power supply cables: see page 732 câbles d'alimentation <i>piconet</i> ® voir page 732	8017217
	8 kanaliger Energieverteiler, max. 4 A pro Kanal 8-port power junction, max. 4 A per channel Distributeur d'alimentation à 8 canaux, max. 4 A par canal	1 x 7/8" (F053) 8 x M8 (F028)	8MBM8-4P2-7/8-M <i>piconet</i> ®-Versorgungsleitungen: siehe Seite 732 <i>piconet</i> ®power supply cables: see page 732 câbles d'alimentation <i>piconet</i> ® voir page 732	8017216

Anschlussbelegung Pin Configuration Schéma de raccordement	(F028)	(F039)	(F053)
	 <p>1 = BN (U_B) 2 = WH (U_L) I_{max} = 4 A 3 = BU (GND) 4 = BK (GND)</p>		 <p>1 = GND 2 = GND 3 = PE 4 = 24 VDC U_B 5 = 24 VDC U_L I_{max} = 9 A</p>



BL compact – Hohe Signalvielfalt in kompakter Bauform

Mit *BL compact* steht erstmalig eine Produktfamilie mit kompakten IP67-Feldbusgeräten zur Verfügung, die in Bezug auf die Signalvielfalt und Anschlusstechnik in der I/O-Ebene keine Wünsche offen lässt. Der Einsatz kompakter Feldbusstationen war bislang auf rein digitale Feldsignale begrenzt. Mit *BL compact* lassen sich jetzt verschiedenste I/O-Aufgaben mit nahezu beliebigen Signalkombinationen außerhalb des Schaltschranks in kompakter Bauform lösen.

Die Grundidee

Mit dem modularen Feldbusystem BL67 liefert TURCK ein System, das es ermöglicht, einen Feldbusknoten außerhalb des Schaltschranks mit verschiedenen Feldsignalen modular aufzubauen. Dabei werden an Feldbus-Gateways passive Basis- und aktive Elektronikmodule angereicht, die applikationsspezifisch eine bestimmte I/O-Aufgabe erfüllen. Ein solcher Feldbusknoten kann aus einem Gateway mit bis zu 32 Erweiterungen (maximal 512 I/O-Punkte) bestehen. Für Applikationen, die ein geringeres Signalaufkommen und ein begrenztes Platzangebot aufweisen, stellt *BL compact* eine effiziente Alternative dar, weil alle BL67-I/O-Signale prinzipiell auch in *BL compact* zur Verfügung stehen.

Der Baukasten

In den *BL compact*-Geräten sind die drei Grundfunktionen Feldbusanschluss, I/O-Signal und Anschlusstechnik in einem Gehäuse vereint. In den kleinen Gehäusebauformen (z. B. M12S und M12MT) kann jedes beliebige BL67-Elektronikmodul einzeln an PROFIBUS-DP oder Device-Net™ angekoppelt werden. Die größere Gehäusebauform (z. B. M12LT) erlaubt es darüber hinaus, zwei beliebige Elektronikmodule aus dem BL67-Angebot miteinander zu kombinieren. Die sich daraus ergebende Gerätevielfalt ist nahezu unbegrenzt.

Das Produktportfolio

Die im weiteren Verlauf aufgeführten *BL compact*-Geräte stellen zunächst das Basisportfolio dar. Zum einen veranschaulicht dieses Portfolio die Leistungsfähigkeit des *BL compact*-Baukastensystems – zum anderen können die aufgeführten Gerätevarianten als Standard-I/O angesehen werden. Über das Basisportfolio hinaus werden schnell weitere Gerätevarianten hinzukommen. Die aktuellste Übersicht über das *BL compact*-Geräteangebot ist deshalb immer im Internet unter www.turck.com ersichtlich.

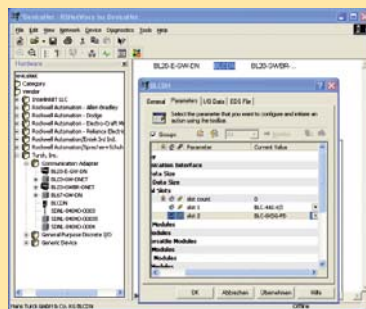
Sollte für Ihre Applikation das passende Gerät auch im Internet nicht zu finden sein, sprechen Sie uns an. Wir prüfen gern, ob der *BL compact*-Baukasten eine geforderte Gerätevariante zulässt und sind in der Lage, aufgrund der internen modularen Bauweise schnell zu reagieren.

BL compact – High signal variety in a compact design

For the first time, *BL compact* provides a product family of IP67 fieldbus devices that can meet any requirement in the I/O level in terms of signal type and connectivity. Until now, compact fieldbus stations were applied to process only digital fieldbus signals. *BL compact* now allows a wide range of I/O tasks to be implemented outside of the control cabinet in a compact design with virtually any signal combination.

The basic concept

With the modular concept of the BL67 system by TURCK a fieldbus node can be installed outside the control cabinet using any signal combination. For this purpose, passive base and active electronic modules are connected to fieldbus gateways which fulfill application specific I/O tasks. Such a fieldbus node can take one gateway with up to 32 extension modules (max. 512 I/O points). For applications with low signal density and limited mounting space, *BL compact* is an efficient alternative because basically all BL67 I/O signals are also available in *BL compact*.



EINFACHE PROJEKTIERUNG MIT DEM „I/O-ASSISTANT“

- FDT/DTM-basierendes Software-Tool
- Offline-Planung und-Projektierung von BL20-, BL67- und *BL compact*-Modulen
- Konfiguration, Parametrierung und Inbetriebnahme einzelner Module
- Lesen und Setzen von Prozessdaten
- Inbetriebnahmehilfe bei der Überprüfung der Verdrahtung und Sensorik ohne SPS
- Realitätsgetreue Darstellung der projektierten Komponenten
- Automatische Dokumentation projektierte Systeme

BL compact – Une Diversité de signaux élevée dans un format compact

The modular principle

The *BL compact* devices provide three basic functions in a single housing: Fieldbus connection, I/O signal and connector. Depending on the housing style, one or two I/O modules can be housed. The smaller versions (e.g. M12S and M12MT) can link any BL67 electronic module each to PROFIBUS-DP or DeviceNet™. The bigger versions (e.g. M12LT) have space for two BL67 electronic modules, making the possibilities of signal combination nearly infinite.

The product portfolio

On the following pages the basic product portfolio of *BL compact* devices is listed. This product range illustrates the performance capability of the *BL compact* modular system. The listed devices also represent standard I/Os. More device types will soon complement the basic product portfolio. For the latest overview of *BL compact* devices, please see our website: www.turck.com

Please contact us if the device required for your application is not shown on the website. We will be glad to check whether the *BL compact* modular system allows this device version. Due to the modular internal design we will respond quickly.

Grâce au *BL compact* on dispose pour la première fois d'une famille de produits d'appareils de bus de terrain IP67 compacts, remplissant toutes les demandes quant à la diversité de signaux et à la connectique au niveau E/S. L'utilisation de stations de bus de terrain compactes était limitée jusqu'à présent à des signaux de terrain digitaux (TOR). *BL compact* permet de résoudre les applications E/S les plus diverses avec des combinaisons de signaux les plus divers dans un format compact tout en restant en dehors de l'armoire électrique.

L'idée de base

En partant de la conception modulaire du système bus de terrain BL67, TURCK offre un système permettant à l'utilisateur de créer un nœud avec des signaux de terrain les plus divers. Des modules de base passifs et des modules d'électronique actifs sont raccordés à des passerelles de bus assurant la fonction d'E/S en fonction de l'application. Tel nœud de bus de terrain peut être composé d'une passerelle avec 32 extensions au maximum (512 points E/S au maximum). Pour les applications caractérisées par une rentrée réduite de signaux et un encombrement limité, *BL compact* propose une alternative efficace, car tous les signaux E/S BL67 sont en principe également disponibles dans *BL compact*.

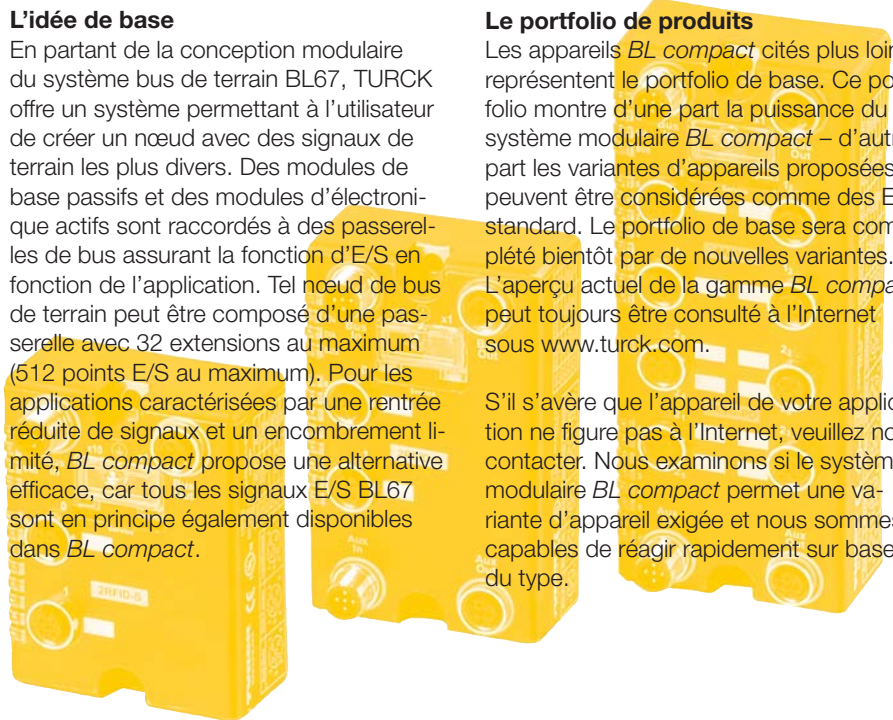
Le système modulaire

Les appareils *BL compact* unissent les trois fonctions de base telles que la connexion de bus de terrain, le signal E/S et la connectique en un seul boîtier. Les formats de boîtiers de petite taille (par ex. M12S et M12MT) permettent de raccorder tout module d'électronique BL67 au réseau PROFIBUS-DP ou DeviceNet™. De plus, le format de boîtier plus grand (comme par ex. B. M12LT) permet de combiner deux modules d'électronique de la gamme BL67. La diversité d'appareils en résultant est presque infinie.

Le portfolio de produits

Les appareils *BL compact* cités plus loin représentent le portfolio de base. Ce portfolio montre d'une part la puissance du système modulaire *BL compact* – d'autre part les variantes d'appareils proposées peuvent être considérées comme des E/S standard. Le portfolio de base sera complété bientôt par de nouvelles variantes. L'aperçu actuel de la gamme *BL compact* peut toujours être consulté à l'Internet sous www.turck.com.

S'il s'avère que l'appareil de votre application ne figure pas à l'Internet, veuillez nous contacter. Nous examinons si le système modulaire *BL compact* permet une variante d'appareil exigée et nous sommes capables de réagir rapidement sur base du type.



SIMPLE ENGINEERING WITH THE "I/O-ASSISTANT"

- FDT/DTM based software tool
- Offline planning and engineering of BL20, BL67 und *BL compact* modules
- Configuration, parameterisation and set-up of individual modules
- Reading and setting of process data
- Commissioning assistance with the testing of the wiring and sensors without a PLC
- Realistic representation of the engineered components
- Automatic documentation of engineered systems

PLANIFICATION FACILE PAR LE „I/O-ASSISTANT“

- Instrument de logiciel FDT/DTM
- Planification et projection offline des modules BL20, BL67 et *BL compact*
- Configuration, paramétrage et mise en service de modules individuels
- Lecture et entrée de données de processus
- Aide de mise en service lors du contrôle du câblage et des détecteurs sans PLC
- Représentation réaliste des composants projetés
- Documentation automatique des systèmes projetés

Bauform Housing style Format	Slot 1			Slot 2		
	Kanäle Channels Canaux	Beschreibung Description Description	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Kanäle Channels Canaux	Beschreibung Description Description	Verbindungstechnik Connection Connexion (Fig. Fxxx)
	8	configurable digital I/O signals with channel diagnostics	4 x M12 (F160)	–	–	–
	4	analog inputs, 0/4...20 mA or -10/0...10 VDC	4 x M12 (F163)	–	–	–
	2	simple RFID Interface	4 x M12 (F185)	–	–	–
	4	digital outputs, PNP, 2 A	4 x M12 (F149)	8	digital inputs, PNP, channel diagnostics	4 x M12 (F138)
	2	analog inputs, Pt100, Pt200, Pt500, Pt1000, Ni100, Ni1000	2 x M12 (F167)	8	configurable digital I/O signals with channel diagnostics	4 x M12 (F160)
	2	analog inputs, thermoelem., types B, E, J, K, N, R, S, T	2 x M12 (F170)	8	configurable digital I/O signals with channel diagnostics	4 x M12 (F160)
	4	analog inputs, 0/4...20 mA or -10/0...10 VDC	4 x M12 (F163)	8	configurable digital I/O signals with channel diagnostics	4 x M12 (F160)
	2	analog outputs, 0/4...20 mA	2 x M12 (F172)	8	configurable digital I/O signals with channel diagnostics	4 x M12 (F160)
	2	analog outputs, -10/0...10 VDC	2 x M12 (F172)	8	configurable digital I/O signals with channel diagnostics	4 x M12 (F160)
	2	simple RFID Interface	2 x M12 (F185)	8	digital inputs, PNP, channel diagnostics	4 x M12 (F138)
	2	simple RFID Interface	2 x M12 (F185)	8	configurable digital I/O signals with channel diagnostics	4 x M12 (F160)

**Anschlussbelegung
Pin configuration
Schéma de raccordement**

(F084)	(F138)	(F149)	(F160)
<p>1 = n.c. 2 = BUS-A 3 = GND 4 = BUS-B 5 = shield</p> <p>1 = 5 VDC 2 = BUS-A 3 = GND 4 = BUS-B 5 = shield</p>	<p>1 = V_{SENS} 2 = Input B 3 = GND 4 = Input A 5 = PE</p>	<p>1 = V_{SENS} 2 = n.c. 3 = GND 4 = Output A 5 = PE</p>	<p>1 = V_{SENS} 2 = Signal B 3 = GND 4 = Signal A 5 = PE</p>

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus		Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
			Verbindungstechnik Connection Connexion (Fig. Fxxx)		
BLCDP-4M12MT-8XSG-PD	6811168	2 x M12 (F257)	2 x M12 (F084)		9,6 kBit/s...12 MBit/s
BLCDP-4M12MT-4AI-VI	6811167	2 x M12 (F257)	2 x M12 (F084)		9,6 kBit/s...12 MBit/s
BLCDP-2M12MT-2RFID-S	6811177	2 x M12 (F257)	2 x M12 (F084)		9,6 kBit/s...12 MBit/s
BLCDP-8M12LT-8DI-PD-4DO-2A-P	6811176	2 x M12 (F257)	2 x M12 (F084)		9,6 kBit/s...12 MBit/s
BLCDP-6M12LT-2AI-PT-8XSG-PD	6811169	2 x M12 (F257)	2 x M12 (F084)		9,6 kBit/s...12 MBit/s
BLCDP-6M12LT-2AI-TC-8XSG-PD	6811170	2 x M12 (F257)	2 x M12 (F084)		9,6 kBit/s...12 MBit/s
BLCDP-8M12LT-4AI-VI-8XSG-PD	6811175	2 x M12 (F257)	2 x M12 (F084)		9,6 kBit/s...12 MBit/s
BLCDP-6M12LT-2AO-I-8XSG-PD	6811171	2 x M12 (F257)	2 x M12 (F084)		9,6 kBit/s...12 MBit/s
BLCDP-6M12LT-2AO-V-8XSG-PD	6811172	2 x M12 (F257)	2 x M12 (F084)		9,6 kBit/s...12 MBit/s
BLCDP-6M12LT-2RFID-S-8DI-PD	6811178	2 x M12 (F257)	2 x M12 (F084)		9,6 kBit/s...12 MBit/s
BLCDP-6M12LT-2RFID-S-8XSG-PD	6811179	2 x M12 (F257)	2 x M12 (F084)		9,6 kBit/s...12 MBit/s

(F163)	(F167)	(F170)	(F172)	(F185)	(F257)
<p>1 = VSENS 2 = AI + 3 = GND 4 = AI - 5 = PE</p>	<p>1 = S + 2 = PT + 3 = GND 4 = PT - 5 = PE</p>	<p>1 = S + 2 = TC + 3 = GND 4 = TC - / S - 5 = PE</p>	<p>1 = VSENS 2 = AO + 3 = GND 4 = AO - 5 = PE</p>	<p>1 = BN (V_{sens}) 2 = BK (Data) 3 = BU (GND) 4 = WH (Data) 5 = shield</p>	<p>1 = V_i 2 = V_o 3 = GND 4 = GND</p>

Feldbusstechnik/Fieldbus Technology/
Technique du bus de terrain

Bauform Housing style Format	Slot 1			Slot 2		
	Kanäle Channels Canaux	Beschreibung Description Description	Verbindungstechnik Connection Connexion (Fig. Fxxx)	Kanäle Channels Canaux	Beschreibung Description Description	Verbindungstechnik Connection Connexion (Fig. Fxxx)
	8	digital inputs, PNP	4 x M12 (F138)	–	–	–
	8	digital inputs, PNP	8 x M8 (F137)	–	–	–
	8	digital inputs, PNP, channel diagnosis	4 x M12 (F138)	–	–	–
	8	configurable digital I/O signals with channel diagnostics	4 x M12 (F160)	–	–	–
	4	analog inputs, 0/4...20 mA or -10/0...10 VDC	4 x M12 (F163)	–	–	–
	2	analog inputs, Pt100, Pt200, Pt500, Pt1000, Ni100, Ni1000	2 x M12 (F167)	–	–	–
	2	analog inputs, thermoelem., types B, E, J, K, N, R, S, T	2 x M12 (F170)	–	–	–
	2	analog outputs, 0/4...20 mA	2 x M12 (F172)	–	–	–
	2	analog outputs, -10/0...10 VDC	2 x M12 (F172)	–	–	–
	2	simple RFID Interface	2 x M12 (F185)	–	–	–
	8	configurable digital I/O signals with channel diagnostics	4 x M12 (F160)	–	–	–
	4	digital outputs, PNP, 2 A	4 x M12 (F149)	–	–	–
	8	digital outputs, PNP, 0.5 A	4 x M12 (F149)	–	–	–
	16	digital outputs, PNP, 0.1 A	1 x M16 (F258) ¹⁾	–	–	–
	1	RS232 interface	1 x M16 (F259) ¹⁾	–	–	–
	1	RS485 or 422 interface	1 x M16 (F260) ¹⁾	–	–	–
	8	configurable digital I/O signals with channel diagnostics	4 x M12 (F160)	8	configurable digital I/O signals with channel diagnostics	4 x M12 (F160)
	8	digital outputs, PNP, 0.5 A	8 x M8 (F147)	8	digital outputs, PNP, 0.5 A	8 x M8 (F147)
	4	analog inputs, 0/4...20 mA or -10/0...10 VDC	4 x M12 (F163)	4	analog outputs, 0/4...20 mA or -10/0...10 VDC	4 x M12 (F163)
	4	analog inputs, 0/4...20 mA or -10/0...10 VDC	4 x M12 (F163)	2	analog outputs, -10/0...10 VDC	4 x M12 (F172)

Anschlussbelegung
Pin configuration
Schéma de raccordement

(F085)	(F137)	(F138)	(F147)	(F149)
<p>1 = shield 2 = V+ 3 = V- 4 = CAN_H 5 = CAN_L</p>	<p>1 = VSENS 3 = GND 4 = Input A</p>	<p>1 = VSENS 2 = Input B 3 = GND 4 = Input A 5 = PE</p>	<p>1 = VSENS 3 = GND 4 = Output A</p>	<p>1 = VSENS 2 = n.c. 3 = GND 4 = Output A 5 = PE</p>

¹⁾ Anschlussbelegung siehe Seite 806/Pin configuration see page 806/Schéma de raccordement voir page 806

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Versorgung/Supply/Alimentation Verbindungstechnik Connection Connexion (Fig. Fxxx)	Bus		Max. Übertragungsrate Max. transmission rate Vitesse de transmission max.
			Verbindungstechnik Connection Connexion (Fig. Fxxx)		
BLCDN-4M12S-8DI-P	6811004	via DeviceNet™	2 x M12 (F085)		500 kBit/s
BLCDN-8M8S-8DI-P	6811028	via DeviceNet™	2 x M12 (F085)		500 kBit/s
BLCDN-4M12S-8DI-PD	6811005	via DeviceNet™	2 x M12 (F085)		500 kBit/s
BLCDN-4M12S-8XSG-PD	6811007	via DeviceNet™	2 x M12 (F085)		500 kBit/s
BLCDN-4M12S-4AI-VI	6811003	via DeviceNet™	2 x M12 (F085)		500 kBit/s
BLCDN-2M12S-2AI-PT	6811039	via DeviceNet™	2 x M12 (F085)		500 kBit/s
BLCDN-2M12S-2AI-TC	6811040	via DeviceNet™	2 x M12 (F085)		500 kBit/s
BLCDN-2M12S-2AO-I	6811037	via DeviceNet™	2 x M12 (F085)		500 kBit/s
BLCDN-2M12S-2AO-V	6811038	via DeviceNet™	2 x M12 (F085)		500 kBit/s
BLCDN-2M12S-2RFID-S	6811002	via DeviceNet™	2 x M12 (F085)		500 kBit/s
BLCDN-4M12MT-8XSG-PD	6811008	2 x M12 (F257)	2 x M12 (F085)		500 kBit/s
BLCDN-4M12MT-4DO-2A-P	6811009	2 x M12 (F257)			500 kBit/s
BLCDN-4M12MT-8DO-0.5A-P	6811011	2 x M12 (F257)	2 x M12 (F085)		500 kBit/s
BLCDN-1M16MT-16DO-0.1A-P	6811035	2 x M12 (F257)	2 x M12 (F085)		500 kBit/s
BLCDN-1M16M-1RS232	6811053	via DeviceNet™	2 x M12 (F085)		500 kBit/s
BLCDN-1M16M-1RS485-422	6811054	via DeviceNet™	2 x M12 (F085)		500 kBit/s
BLCDN-8M12LT-8XSG-PD-8XSG-PD	6811019	2 x M12 (F257)	2 x M12 (F085)		500 kBit/s
BLCDN-16M8LT-8DO-0.5A-P-8DO-0.5A-P	6811030	2 x M12 (F257)	2 x M12 (F085)		500 kBit/s
BLCDN-8M12L-4AI-VI-4AI-VI	6811043	via DeviceNet™	2 x M12 (F085)		500 kBit/s
BLCDN-6M12L-4AI-VI-2AO-V	6811001	via DeviceNet™	2 x M12 (F085)		500 kBit/s

(F160)	(F163)	(F167)	(F170)	(F172)	(F185)	(F257)
<p>1 = VSENS 2 = Signal B 3 = GND 4 = Signal A 5 = PE</p>	<p>1 = VSENS 2 = AI + 3 = GND 4 = AI - 5 = PE</p>	<p>1 = S + 2 = PT + 3 = GND 4 = PT - 5 = PE</p>	<p>1 = S + 2 = TC + 3 = GND 4 = TC - / S - 5 = PE</p>	<p>1 = VSENS 2 = AO + 3 = GND 4 = AO - 5 = PE</p>	<p>1 = BN (V_{sens}) 2 = BK (Data) 3 = BU (GND) 4 = WH (Data) 5 = shield</p>	<p>1 = Vi 2 = Vo 3 = GND 4 = GND</p>

Feldbusstechnik/Fieldbus Technology/
Technique du bus de terrain

BL67 – Modulares I/O-Busklemmensystem

Mit BL67 wurden erstmals alle gewohnten Vorteile der modernen IP20-I/O-Systeme in die raue IP67-Umgebung übertragen. Dabei kann der Anwender seinen Feldbusknoten weiterhin maßgeschneidert und flexibel zusammenstellen.

Modular in IP67?

Dezentrale Peripheriegeräte in hoher Schutzart haben sich in den letzten Jahren durchgesetzt und sind aus den heutigen Automatisierungssystemen nicht mehr wegzudenken. Die mächtigen Schaltschrankwände werden kleiner und auch die Einbaueinheit im Feld verschwinden mehr und mehr.

Die Vorteile eines modularen I/O-Systems in IP67 liegen auf der Hand. Dank der „kompakten“ Bauform der BL67-Komponenten, mit einer Modulbreite von 32 mm bei den Erweiterungen, kann der Feldbusknoten platzsparend direkt an der Maschine oder in der Produktionslinie montiert werden. Auf diese Weise werden die Wege zu den Sensoren und Aktuatoren kurz gehalten. Durch vorkonfigurierte Leitungen wird der Aufwand bei der Verdrahtung konsequent reduziert und mögliche Fehlerquellen eliminiert.

Der Systemaufbau

Das modulare BL67-I/O-System besteht aus dem Gateway und den Erweiterungsmodulen. Das Gateway ist die Kopfstation und dient zur Kommunikation mit dem Feldbus. Verfügbar sind Gateways für die Bussysteme PROFIBUS-DP, DeviceNet™, CANopen und Ethernet. Dadurch ist BL67 offen für alle gängigen Feldbusse und unabhängig gegenüber den SPS-Herstellern.

Die Erweiterungen werden rechts neben das Gateway angebaut. Dazu ist keine feste Backplane und kein Modulträger erforderlich. Die Erweiterungen bestehen aus Basis- und Elektronikmodul. Die Basismodule sind mit M8-, M12-, M23- und 7/8"-Anschlussstechnik verfügbar. Als Elektronikmodule gibt es digitale und analoge Ein-/Ausgänge, Pt- und Thermoelement-Eingänge, SSI- und serielle Schnittstellen (RS232, RS485/422) und auch ein Zähler-/Encodermodul.

Diese Signalvielfalt schafft größtmögliche Flexibilität. Selbst die Diagnose kann je nach Anforderung speziell auf die Anlage zugeschnitten werden. Das Spektrum reicht von Moduldiagnose bis zur kanalgenauen Diagnose mit den „High-End“-Modulen. Stehende Verdrahtung durch Trennung von Basis und Elektronik und die Hot-Swapping-Funktion garantieren hohe Anlagenverfügbarkeit, auch im Servicefall. Das BL67-Power-Feeding-Konzept zur Versorgung und Bildung von Potentialgruppen rundet das Konzept sinnvoll ab.

BL67 – Modular terminal I/O bus system

With BL67 all the properties and merits of modern IP20 systems were integrated into the harsh IP67 environment. The user can still apply his fieldbus nodes flexibly and as a tailor-made solution.

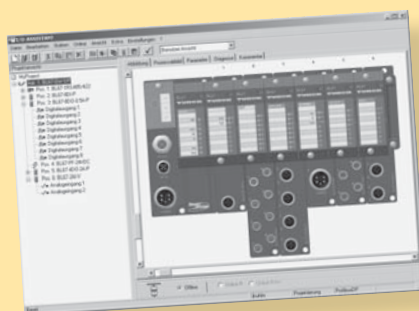
Modular in IP67?

During the last years, distributed peripheral devices in a high degree of protection have become prevalent in today's advanced automation systems. The large control cabinet panels are becoming smaller and even the installation housing in the field is starting to disappear.

The advantages of a modular I/O system with IP67 rating are obvious: owing to the compact design of our BL67 components with extension modules that are only 32 mm wide, it is possible to mount the fieldbus station space-savily directly at the machine or the production line. As a result, distances to sensors and actuators can be kept as short as possible. Due to the use of prefabricated cables, time-consuming wiring procedures are consistently minimised and sources of error are eliminated.

EINFACHE PROJEKTIERUNG MIT DEM „I/O-ASSISTANT“

- FDT/DTM-basierendes Software-Tool
- Offline-Planung und-Projektierung von *piconet*®, BL20 und BL67-Modulen
- Konfiguration, Parametrierung und Inbetriebnahme einzelner Module
- Lesen und Setzen von Prozessdaten
- Inbetriebnahnehilfe bei der Überprüfung der Verdrahtung und Sensorik ohne SPS
- Realitätsgetreue Darstellung der projektierten Komponenten
- Automatische Dokumentation projektierte Systeme



BL67 – Système bornes bus E/S modulaire

The system construction

The modular BL67 I/O system consists of the gateway and the extension modules. The gateway is the "head" station in charge of communication with the fieldbus. At the moment, there are gateways for PROFIBUS-DP, DeviceNet™, CANopen and Ethernet available. Therefore BL67 is compliant with all commonly applied field-busses and independent of the various control systems employed.

The extensions are mounted to the right of the gateway. There is no need to implement a backplane. The extensions are comprised of a base and electronic module. The base modules come with a choice of M8, M12, M23 and 7/8" plug-in connections. The electronic modules comprise digital inputs and outputs, Pt resistor and thermo-element inputs, SSI and serial interfaces (RS232/RS485/422) and a counter and encoder module.

The variety of available signals provides the highest level of flexibility. Even the diagnostics can be specially adapted to the demands of the system. The diagnostic spectrum ranges from individual module diagnostics to channel-specific diagnostics provided by the "high end" modules. The independent wiring concept based on the separation of base and electronic modules and the hot-swapping function guarantee high system availability, also during service and maintenance. The BL67 Power-Feeding concept for supply and formation of potential groups usefully rounds off the range.

Pour la première fois tous les avantages connus des systèmes E/S modernes IP20 ont été appliqués dans l'environnement rigoureux IP67 par le BL67 permettant ainsi à l'utilisateur de composer sur mesure et de manière flexible son réseau de bus de terrain.

Conception modulaire en IP67?

Au cours des dernières années, les appareils périphériques décentralisés, en mode de protection élevé occupent une place de plus en plus importante sur le marché; les systèmes d'automatisation actuels sont devenus inconcevables sans ces types d'appareils. Les impressionnants murs d'armoires électriques tendent à se réduire et même les boîtiers suivent cette évolution.

Les avantages apportés par un système d'E/S modulaire en IP67 sont évidents. Grâce au format "compact" des modules (32mm) composant le BL67, il est maintenant possible de rapporter l'intelligence « bus de terrain » au cœur même du système : sur la machine ou dans la chaîne de production. Cette technologie permet de réduire les longueurs de câbles des détecteurs et des capteurs. Les connecteurs pré-moulés permettent de réduire les frais de montage et d'éliminer aussi les sources d'erreurs éventuelles lors du câblage.

Structure du système

Le système d'E/S modulaire BL67 est composé d'une tête de station et de modules d'extensions. La tête de station assure la communication avec le bus de terrain, elle est disponible pour les protocoles suivants: PROFIBUS-DP, DeviceNet™, CANopen et Ethernet. Voilà pourquoi le BL67 est ouvert à tous les protocoles usuels et reste indépendant des fabricants d'automates. Les extensions sont installées à droite de la tête de station. Aucune platine fixe ni supports supplémentaires ne sont exigés à cet effet.

Les modules électroniques sont proposés en signaux d'entrées/sorties TOR, analogiques, entrées pour thermocouples, interfaces série et SSI (RS232, RS485/422) et une module compteur/codeur. Les connexions disponibles sont proposées avec raccords M8, M12, M23 et 7/8".

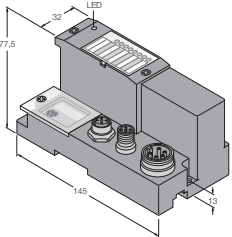
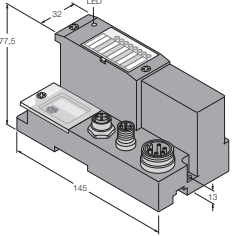
Grâce à cette diversité de signaux une grande flexibilité est obtenue. Des fonctions diagnostics peuvent être spécialement adaptées à l'installation, que ce soit des diagnostics sur les modules jusqu'au diagnostic voie à voie (grâce aux modules High-End). Un câblage indépendant entre le bus et l'électronique permet un débrouillage à chaud (fonction hot swapping) garantissant ainsi une disponibilité élevée du système.

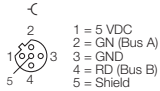
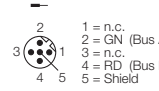
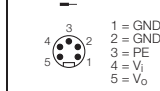
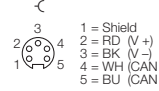
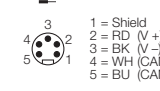
SIMPLE ENGINEERING WITH THE "I/O-ASSISTANT"

- FDT/DTM based software tool
- Offline planning and engineering of *piconet*®, BL20 and BL67 modules
- Configuration, parameterisation and set-up of individual modules
- Reading and setting of process data
- Commissioning assistance with the testing of the wiring and sensors without a PLC
- Realistic representation of the engineered components
- Automatic documentation of engineered systems

PLANIFICATION FACILE PAR LE „I/O-ASSISTANT“

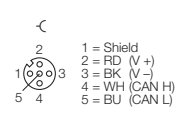
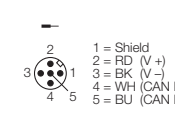
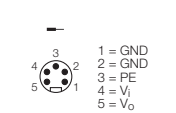
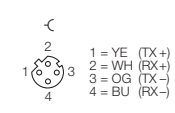
- Instrument de logiciel FDT/DTM
- Planification et projection offline des modules *piconet*®, BL20 et BL67
- Configuration, paramétrage et mise en service de modules individuels
- Lecture et entrée de données de processus
- Aide de mise en service lors du contrôle du câblage et des détecteurs sans PLC
- Représentation réaliste des composants projetés
- Documentation automatique des systèmes projetés

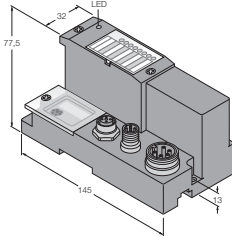
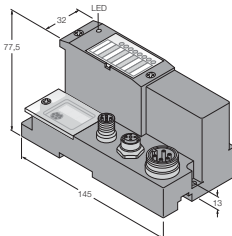
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Feldbus Fieldbus Bus de terrain	Anschlussstechnik Feldbus Fieldbus connection technology Système de connexion Bus de terrain (IEC 853)	Anschlussstechnik Versorgung Connect. technology Supply Système de connexion Alimentation (IEC 853)	Übertragungs- rate Transmission rate Vitesse de transmission [Bit/s]	Nenn- spannung Rated voltage Tension nominale [VDC]	Nennstromaufnahme aus Modulbus Nom. current consump. from module bus Courant nom. absorbé du bus de module [mA]
	PROFIBUS-DP	2 x M12, 5-polig, invers codiert/ 2 x M12, 5-pole, reverse keyed/ 2 x M12, 5 pôles, codé inversement	7/8" —, 5-polig 7/8" —, 5-pole 7/8" —, 5 pôles	9,6 k...12 M	24	≤ 650
	DeviceNet™ CANopen	2 x 7/8", 5-polig/ 2 x 7/8", 5-pole/ 2 x 7/8", 5 pôles	DeviceNet™-Kabel/ DeviceNet™ cable/ Câble DeviceNet™ CANopen-Kabel/ CANopen cable/ Câble CANopen	125 k...500 k 10 k...1 M	24	≤ 600
	CANopen	2 x M12, 5-polig/ 2 x M12, 5-pole/ 2 x M12, 5 pôles	7/8" —, 5-polig/ 7/8" —, 5-pole/ 7/8" —, 5 pôles	10 k...1 M	24	≤ 600
	MODBUS TCP PROFINET IO EtherNet/IP Modbus TCP EtherNet/IP	M12 -C , 4-polig, D-codiert/ M12 -C , 4-pole, D-coded/ M12 -C , 4 pôles, codé D	7/8" —, 5-polig/ 7/8" —, 5-pole/ 7/8" —, 5 pôles	10/100 M 10/100 M 10/100 M 10/100 M 10/100 M	24 24 24 24 24	≤ 600 ≤ 600 ≤ 600 ≤ 600 ≤ 600

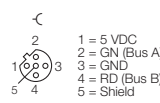
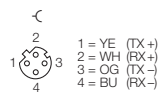
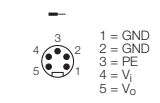
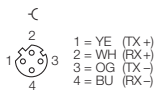
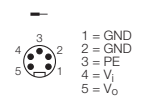
Anschlussbelegung Pin configuration Schéma de raccordement	PROFIBUS-DP			DeviceNet™/CANopen (BL67-GW-CO-T)	
					

¹⁾ Integrierter BLremote-DeviceNet™-Master/Integrated BLremote DeviceNet™ master/Maitre BLremote DeviceNet™ intégré

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Adressierung Feldbus Fieldbus addressing Adressage bus de terrain	Adressbereich Feldbus Fieldbus address range Zone d'adresse bus de terrain (dez./dec./déc.)	Anzahl Para- meterbytes No. of para- meter bytes Nombre de bytes de paramètres [Byte]	Anzahl Diag- nosebytes No. of diag- nostic bytes Nombre de bytes de diagnostic [Byte]	Service- schnittstelle Service interface Interface de service (IEC 853)
BL67-GW-DPV1	6827232	3 Drehschalter/ 3 x rotary switches/ 3 x comm. rotatif	1...125	5	3	⌋ PS/2
BL67-GW-DN	6827183	2 Drehschalter/ 2 x rotary switches/ 2 x comm. rotatif	0...63	-	-	⌋ PS/2
BL67-GW-CO-T	6827289	2 Drehschalter/ 2 x rotary switches/ 2 x comm. rotatif	1...99	-	-	⌋ PS/2
BL67-GW-CO	6827200	2 Drehschalter/ 2 x rotary switches/ 2 x comm. rotatif	1...99	-	-	⌋ PS/2
BL67-GW-EN	6827214	Drehschalter/ rotary switch/	-	-	-	⌋ PS/2
BL67-GW-EN-PN	6827228	comm. rotatif	-	-	-	⌋ PS/2
BL67-GW-EN-IP	6827229	BootP, DHCP	-	-	-	⌋ PS/2
BL67-GW-EN-DN⁽¹⁾	6827313	I/O-ASSISTANT	-	-	-	⌋ PS/2
BL67-GW-EN-IP-DN⁽¹⁾	6827299					

Anschlussbelegung	CANopen (BL67-GW-CO)			Ethernet	
	Pin configuration Schéma de raccordement				

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Feldbus Fieldbus Bus de terrain	Anschluss-technik Feldbus Fieldbus connection technology Système de connexion Bus de terrain (IEC 853)	Anschluss-technik Versorgung Connect. technology Supply Système de connexion Alimentation (IEC 853)	Übertragungs- rate Transmission rate Vitesse de transmission [Bit/s]	Nenn- spannung Rated voltage Tension nominale [VDC]	Nennstromaufnahme aus Modulbus Nom. current consump. from module bus Courant nom. absorbé du bus de module [mA]
	PROFIBUS-DP	2 x M12, 5-polig, invers codiert/ 2 x M12, 5-pole, reverse keyed/ 2 x M12, 5 pôles, codé inversement	7/8" —, 5-polig/ 7/8" —, 5-pole 7/8" —, 5 pôles	9,6 k...12 M	24	≤ 600
		MODBUS TCP EtherNet/IP	M12 C, 4-polig, D-codiert/ M12 C, 4-pole, D-coded/ M12 C, 4 pôles, codé D	7/8" —, 5-polig/ 7/8" —, 5-pole/ 7/8" —, 5 pôles	10/100 M 10/100 M	24 24

Anschlussbelegung Pin configuration Schéma de raccordement	PROFIBUS-DP			MODBUS TCP/EtherNet/IP	
					

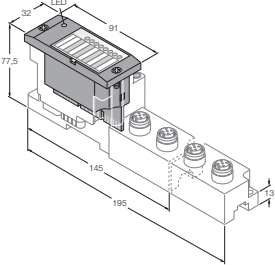
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Adressierung Feldbus Fieldbus adressing Adressage bus de terrain	Adressbereich Feldbus Fieldbus adress range Zone d'adresse bus de terrain (dez./dec./déc.)	Anzahl Parameterbytes No. of parameter bytes Nombre de bytes de paramètres [Byte]	Anzahl Diagnosebytes No. of diagnostic bytes Nombre de bytes de diagnostic [Byte]	Programmierschnittstelle Programming interface Interface de programmation (IEC 853)
BL67-PG-DP	6827240	3 Drehschalter/ 3 x rotary switches/ 3 x comm. rotatif	1...125	5	3	⌋ RS232 (PS/2) Ethernet
BL67-PG-EN	6827241	Drehschalter rotary switch/ comm. rotatif	–	–	–	⌋ PS/2
BL67-PG-EN-IP	6827246	BootP, DHCP I/O-ASSISTANT	–	–	–	⌋ PS/2

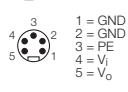
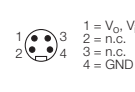
1) **SPS-Daten/SPS data/Données PLC**

Programmierung/Programming/Programmation
 Freigeben für CoDeSys-Version/Released for CoDeSys version/Autoriser pour version CoDeSys
 Programmiersprachen/Programming languages/Langages de programmation
 Applikationstasks/Application tasks/Tâches d'application
 Anzahl POEs/Number of POEs/Nombre de POE
 Programmierschnittstelle/Programming interface/Interface de programmation
 Prozessor/Processor/Processeur
 Zykluszeit/Cycle time/Temps de cycle

Programmspeicher/Programming memory/Mémoire de programme
 Datenspeicher/Data memory/Mémoire de données
 Eingangsdaten/Input data/Données d'entrée
 Ausgangsdaten/Output data/Données de sortie
 Remanentspeicher/Remanent memory/Mémoire rémanente

CoDeSys V2.3
 V 2.3.6.4
 IEC 61131-3 (AWL, KOP, FUP, AS, ST)/(STL, LD, CFC ST, SFC)
 1
 1024
 RS232-Schnittstelle/RS232 interface/Interface RS232, Ethernet
 RISC, 32 Bit
 < 1 ms für 1000 AWL-Befehle (ohne E/A-Zyklus)/
 < 1 ms for 1000 STL commands (without I/O cycle)/
 < 1 ms pour 1000 commandes AWL (sans cycle E/S)
 512 kByte
 512 kByte
 4 kByte
 4 kByte
 16 kByte

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Betriebsspannung V_i Supply voltage V_i Tension de service V_i [V]	Zulässiger Bereich für V_i Admissible range for V_i Plage admissible pour V_i [V]	Lastspannung V_o Load voltage V_o Tension en décharge V_o [V]	Zulässiger Bereich für V_o Admissible range for V_o Plage admissible pour V_o [V]	Nennstrom aus Modulbus I_{MB} Nom. curr. from module bus I_{MB} Courant nom. du bus de module I_{MB} [mA]
	24 DC	18...30 DC	24 DC	18...30 DC	≤ 30

Anschlussbelegung – Basismodule Pin Configuration – Base modules Schéma de raccordement – Modules de base	BL67-B-1RSM for BL67-PF-24VDC	BL67-B-1RSM-4 for BL67-PF-24VDC
		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident	Max. Laststrom I _O Max. load current I _O Courant de charge max. I _O [A]	Max. Sensorversorgung I _I Max. sensor supply I _I Courant détecteur max. I _I [A]	Anzahl Diagnosebits Number of diagnostic bits Nombre de bits de diagnostic [Bit]
BL67-PF-24VDC	6827182	10	4	3
Basismodule/Base modules/ Modules de base BL67-B-1RSM BL67-B-1RSM-4 BL67-B-1RSM-VO	6827190 6827201 6827236			

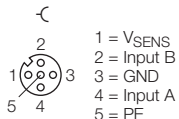
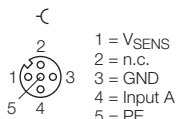
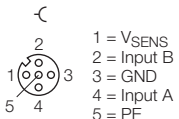
Anschlussbelegung – Basismodule Pin Configuration – Base modules Schéma de raccordement – Modules de base	BL67-B-1RSM-VO for BL67-PF-24VDC
	<p> 1 = GND 2 = d.n.c. 3 = PE 4 = d.n.c. 5 = V₀ </p>

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Nennspannung aus Klemme V _I Nom. voltage from terminal V _I Tension nominale de la borne V _I [V]	Nennstrom aus Klemme I _I Nom. curr. from terminal I _I Courant nominal de la borne I _I [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]	Schaltfunktion Switching function Fonction de commutation
	4	24 DC	≤ 40	≤ 30	≤ 0.25	npn
	4	24 DC	≤ 1	≤ 30	≤ 1.3	npn
	4	24 DC	≤ 100	≤ 30	≤ 1.5	npn
	8	24 DC	≤ 40	≤ 30	≤ 0.25	npn
	8	24 DC	≤ 1	≤ 30	≤ 1.3	npn
	8	24 DC	≤ 100	≤ 30	≤ 1.5	npn

Anschlussbelegung – Basismodule Pin configuration – Base modules Schéma de raccordement – Modules de base	BL67-B-1M23(-VI) for BL67-4DI-...	BL67-B-1M23(-VI) for BL67-8DI-...	BL67-B-...M8 for BL67-...DI-...
	<p>1 = Signal 0 7 = n.c. 2 = Signal 1 8 = n.c. 3 = Signal 2 9 = V_{SENS} 4 = Signal 3 10 = V_{SENS} 5 = n.c. 11 = V_{SENS} 6 = n.c. 12 = GND</p>	<p>1 = Signal 0 7 = Signal 6 2 = Signal 1 8 = Signal 7 3 = Signal 2 9 = V_{SENS} 4 = Signal 3 10 = V_{SENS} 5 = Signal 4 11 = V_{SENS} 6 = Signal 5 12 = GND</p>	<p>1 = V_{SENS} 3 = GND 4 = Input A</p>

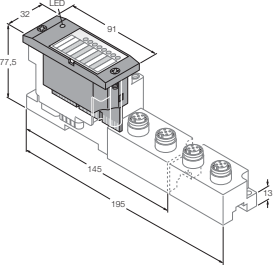
¹⁾ GD = Gruppendiagnose/Diagnosis per group/Diagnostic par groupe KD = Kanalbezogene Diagnose/Diagnosis per channel/Diagnostic par canal

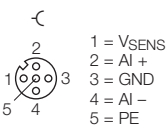
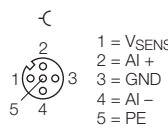
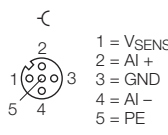
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Eingangsspannung Input voltage Tension d'entrée		Eingangsstrom Input current Courant d'entrée		Eingangsverzögerung Input delay Retard d'entrée [ms]	Anzahl Parameterbytes No. of parameter bytes Nombre de bytes de paramètres [Byte]	Anzahl Diagnosebits No. of diagnostic bits Nombre de bits de diagn. [Bit]	Diagnoseart Type of diagnosis Type de diagn. 1)
		Low-Level	High-Level	Low-Level	High-Level				
		[V]	[V]	[mA]	[mA]				
BL67-4DI-P	6827171	< 4.5	7 ... 30	< 1.5	2.1 ... 3.7	0.25	–	–	GD
BL67-4DI-N	6827206	> 7	< 5	< 2.5	> 3	0.25	–	–	GD
BL67-4DI-PD	6827204	< 4.5	7 ... 30	< 1.5	2.1 ... 3.7	0.25; 2.5	4	6	KD
Basismodule/Base modules/ Modules de base BL67-B-2M12 BL67-B-2M12-P BL67-B-4M12 BL67-B-4M8 BL67-B-1M23 BL67-B-1M23-VI	6827186 6827194 6827187 6827189 6827213 6827290								
BL67-8DI-P	6827170	< 4.5	7 ... 30	< 1.5	2.1 ... 3.7	0.25	–	–	GD
BL67-8DI-N	6827207	> 7	< 5	< 1.2	> 1.5	0.25	–	–	GD
BL67-8DI-PD	6827205	< 4.5	7 ... 30	< 1.5	2.1 ... 3.7	0.25; 2.5	8	12	KD
Basismodule/Base modules/ Modules de base BL67-B-4M12 BL67-B-4M12-P BL67-B-8M8 BL67-B-1M23 BL67-B-1M23-VI	6827187 6827195 6827188 6827213 6827290								

Anschlussbelegung – Basismodule	BL67-B-2M12(-P) for BL67-4DI-...	BL67-B-4M12(-P) for BL67-4DI-...	BL67-B-4M12(-P) for BL67-8DI-...
Pin configuration – Base modules			
Schéma de raccordement – Modules de base			

Feldbusstechnik/Fieldbus Technology/
Technique du bus de terrain

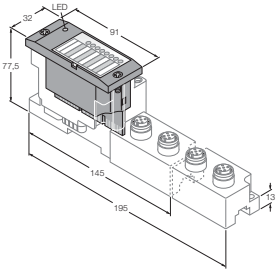
Analoge Eingabemodule 2/4AI-I/AI-V
Analogue input modules 2/4AI-I/AI-V
Modules d'entrée analogique 2/4AI-I/AI-V

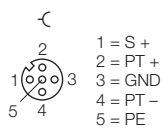
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Eingangstyp Input type Type d'entrée	Nennspannung aus Klemme V _I Nom. voltage from terminal V _I Tension nominale de la borne V _I [V]	Nennstrom aus Klemme I _I Nom. curr. from terminal I _I Courant nominal de la borne I _I [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]	Eingangswiderstand Input resistance Résistance d'entrée [Ω]
	2	0/4 ... 20 mA	24 DC	≤ 12	≤ 35	≤ 1	< 0.125
	2	-10/0 ... +10 VDC	24 DC	≤ 12	≤ 35	≤ 1	< 98.5
	4	0/4 ... 20 mA/ -10/0 ... +10 VDC	24 DC	≤ 12	≤ 35	≤ 1	0.125/98.5

Anschlussbelegung – Basismodule Pin configuration – Base modules Schéma de raccordement – Modules de base	BL67-B-2M12 for BL67-2AI-I	BL67-B-2M12 for BL67-2AI-V	BL67-B-4M12 for BL67-4AI-V/I
			

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Grenzfrequenz Limit frequency Fréquence limite [Hz]	Grundfehlergrenze (23 °C) Basic error at 23 °C Erreur de base à 23 °C [%]	Wiederholgenauigkeit Repeat accuracy Reproductibilité [%]	Messwertdarstellung Measuring value representation Représentation valeur mesurée [Bit]	Anzahl Parameterbytes Number of parameter bytes Nombre de bytes de paramètre [Byte]	Anzahl Diagnosebytes No. of diagnostic bytes Nombre de bytes de diagnostic [Byte]
BL67-2AI-I	6827175	< 50	< 0.2	0.05	12/16	2	2
BL67-2AI-V	6827176	< 50	< 0.2	0.05	12/16	2	2
Basismodule/Base modules/ Modules de base BL67-B-2M12	6827186						
BL67-4AI-V/I	6827222	< 20	< 0.3	0.05	12/16	4	4
Basismodule/Base modules/ Modules de base BL67-B-4M12	6827187						

Analoge Eingabemodule 2 AI-Thermo/Pt/Ni
Analogue input modules 2 AI-Thermo/Pt/Ni
Modules d'entrée analogique 2 AI-Thermo/Pt/Ni

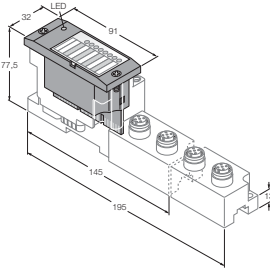
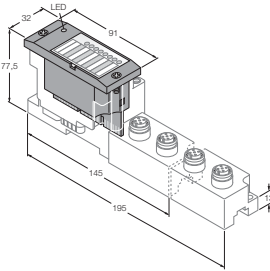
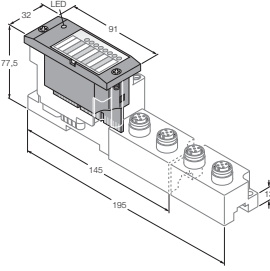
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Anschließbare Sensoren Connectable sensors DéTECTEURS raccordables ¹⁾	Nennspannung aus Klemme V _I Nom. voltage from terminal V _I Tension nominale de la borne V _I [V]	Nennstrom aus Klemme I _I Nom. curr. from terminal I _I Courant nominal de la borne I _I [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]	Spannungsaufösung Voltage resolution Résolution de tension
	2	Pt100, Pt200, Pt500, Pt1000, Ni100, Ni1000	24 DC	≤ 30	≤ 45	≤ 1	–
	2	Type B, E, J, K, N, R, S, T	24 DC	≤ 30	≤ 35	≤ 1	± 50 mV: < 2 V ± 100 mV: < 4 V ± 500 mV: < 20 V ± 1000 mV: < 50 V




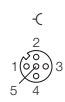
Anschlussbelegung – Basismodule Pin configuration – Base modules Schéma de raccordement – Modules de base	BL67-B-2M12 for BL67-2AI-PT	BL67-B-2M12 for BL67-2AI-TC
		

¹⁾ Pt-Sens. gem. IEC751, Ni-Sens. gem. DIN 43760/Pt sensors acc. IEC 751, Ni sensors acc. DIN 43760/défect. Pt suivant IEC 751, detect. Ni suivant DIN 43760

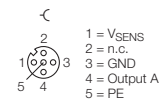
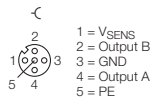
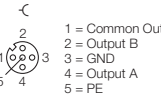
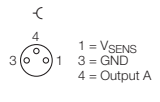
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Offset- fehler Offset error Erreur offset [%]	Linearität Linearity Linéarité [%]	Grundfehler- grenze (23 °C) Basic error at 23 °C Erreur de base à 23 °C [%]	Wiederhol- genauigkeit Repeat accuracy Reproduc- tibilité [%]	Messwert- darstellung Measur em. value representation Représentation valeur mesurée [Bit]	Anzahl Parameterbytes Number of parameter bytes Nombre de bytes de paramètre [Byte]	Anzahl Diagnosebytes No. of diag- nostic bytes Nombre de bytes de diagnostic [Byte]
BL67-2AI-PT	6827177	≤0.1	≤0.1	< 0.2	0.05	12/16	4	2
Basismodule/ Base modules/ Modules de base BL67-B-2M12	6827186							
BL67-2AI-TC	6827178	≤0.1	≤0.1	< 0.2	0.05	12/16	2	2
Basismodule/ Base modules/ Modules de base BL67-B-2M12	6827186							

Digitale Ausgabemodule 4/8/16 DO
Digital output modules 4/8/16 DO
Modules de sortie digitale 4/8/16 DO

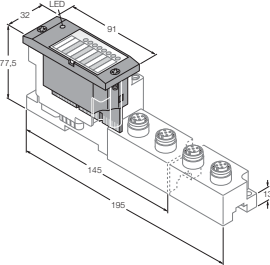
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Nennspannung aus Klemme V _O Nom. voltage from terminal V _O Tension nominale de la borne V _O [V]	Nennstrom aus Klemme I _O Nom. curr. from terminal I _O Courant nominal de la borne I _O [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]	Schaltfunktion Switching function Fonction de commutation
	4	24 DC	≤ 100	≤ 30	≤ 1.5	pnp
	4	24 DC	≤ 100	≤ 30	≤ 1.5	pnp
	4	24 DC	≤ 100	≤ 30	≤ 1.5	nnp
	8	24 DC	≤ 100	≤ 30	≤ 1.5	pnp
	8	24 DC	≤ 100	≤ 30	≤ 1.5	nnp
	8	24 DC	–	≤ 50	≤ 2	elektron. Relais/ elektron. relay/ relais électron.
	16	24 DC	≤ 100	≤ 30	≤ 1.5	pnp

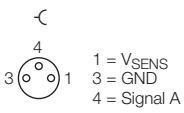
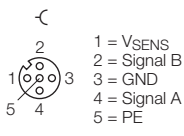
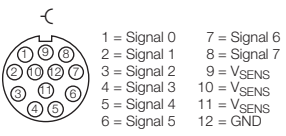
Anschlussbelegung – Basismodule	BL67-B-1M23 for BL67-4DO-...	BL67-B-1M23 for BL67-8DO-...	BL67-B-1M23-19 for BL67-16DO-...	BL67-B-2M12(-P) for BL67-4DO-...
Pin configuration – Base modules	 <ul style="list-style-type: none"> 1 = Signal 0 2 = Signal 1 3 = Signal 2 4 = Signal 3 5 = n.c. 6 = n.c. 7 = n.c. 8 = n.c. 9 = V_{SENS} 10 = V_{SENS} 11 = V_{SENS} 12 = GND 	 <ul style="list-style-type: none"> 1 = Signal 0 2 = Signal 1 3 = Signal 2 4 = Signal 3 5 = Signal 4 6 = Signal 5 7 = Signal 6 8 = Signal 7 9 = V_{SENS} 10 = V_{SENS} 11 = V_{SENS} 12 = GND 	 <ul style="list-style-type: none"> 1 = Output 14 2 = Output 10 3 = Output 6 4 = Output 3 5 = Output 2 6 = GND 7 = Output 1 8 = Output 5 9 = Output 9 10 = Output 13 11 = Output 12 12 = PE 13 = Output 11 14 = Output 7 15 = Output 0 16 = Output 4 17 = Output 8 18 = Output 15 19 = V_{SENS} 	 <ul style="list-style-type: none"> 1 = V_{SENS} 2 = Output B 3 = GND 4 = Output A 5 = PE
Schéma de raccordement – Modules de base				

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Ausgangsstrom pro Kanal Output current per channel Courant de sortie par canal [A]	Lastwiderstand/ Load resistance/ Résistance de charge [Ω]/[H]/[W]			Schaltfrequenz/ Switching frequency/ Fréquence de commutation [Hz]			Anzahl Diagnosebytes No. of diagnostic bytes Nombre de bytes de diagnostic [Byte]
			ohmsch ohmic ohmique	inductiv inductive inductive	Lampenl. lamp load lampe	ohmsch ohmic ohmique	inductiv inductive inductive	Lampenl. lamp load lampe	
BL67-4DO-0.5A-P	6827173	0.5	> 48	< 1.2	< 3	< 200	< 2	< 20	1
BL67-4DO-2A-P	6827174	2	> 12	< 1.2	< 10	< 200	< 2	< 20	1
BL67-4DO-2A-N	6827210	2	> 12	< 1.2	< 6	< 200	< 2	< 20	1
Basismodule/Base modules/ Modules de base BL67-B-2M12 BL67-B-2M12-P BL67-B-4M12 BL67-B-4M8 BL67-B-1M23 BL67-B-1M23-VI	6827186 6827194 6827187 6827189 6827213 6827290								
BL67-8DO-0.5A-P	6827172	0.5	> 48	< 1.2	< 3	< 200	< 2	< 20	1
BL67-8DO-0.5A-N	6827209	0.5	> 48	< 1.2	< 3	< 200	< 2	< 20	1
Basismodule/Base modules/ Modules de base BL67-B-8M8 BL67-B-4M12 BL67-B-4M12-P BL67-B-1M23 BL67-B-1M23-VI	6827188 6827187 6827195 6827213 6827290								
BL67-8DO-R-NO	6827277	0.1	> 31	-	-	< 200	-	-	-
Basismodule/Base modules/ Modules de base BL67-B-4M12-P	6827195								
BL67-16DO-0.1A-P	6827221	0.1	> 250	< 1.2	-	< 200	< 2	-	2
Basismodule/Base modules/ Modules de base BL67-B-1M23-19	6827216								

Anschlussbelegung – Basismodule	BL67-B-4M12(-P) for BL67-4DO-...	BL67-B-4M12(-P) for BL67-8DO-...	BL67-B-4M12-P for BL67-8DO-R-NO	BL67-B-...M8 for BL67-...DO-...
Pin configuration – Base modules				
Schéma de raccordement – Modules de base				

Feldbusstechnik/Fieldbus Technology/
Technique du bus de terrain

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Nennspannung aus Klemme V _O Nom. voltage from terminal V _O Tension nominale de la borne V _I [V]	Nennstrom aus Klemme I _O Nom. curr. from terminal I _O Courant nominal de la borne I _I [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]	Schaltfunktion Switching function Fonction de commutation
	8	24 DC	≤ 100	≤ 30	≤ 1.5	pnp
	8	24 DC	≤ 100	≤ 30	≤ 1.5	pnp

Anschlussbelegung – Basismodule	BL67-B-8 M8 for BL67-4DI4DO-PD	BL67-B-4M12(-P) for BL67-4DI4DO-PD	BL67-B-1M23(-VI) for BL67-4DI4DO-PD
Pin configuration – Base modules Schéma de raccordement – Modules de base			

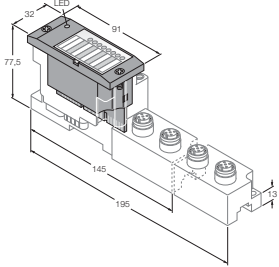
¹⁾ KD = Kanalbezogene Diagnose/Diagnosis per channel/Diagnostic par canal

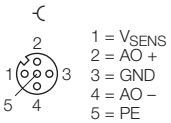
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Eingangsspannung/ Input voltage/ Tension d'entrée		Eingangsstrom/ Input current/ Courant d'entrée		Eingangs- verzögerung Input delay Retard d'entrée [ms]	Ausgangsstrom pro Kanal Output current per channel Courant de sortie par canal [A]	Anzahl Para- meterbytes No. of para- meter bytes Nombre de bytes de paramètres [Byte]	Anzahl Diag- nosebits No. of diag- nostic bits Nombre de bits de diagn. [Bit]	Diagnose- art Type of diagnosis Type de diagn. 1)
		Low-Level	High-Level	Low-Level	High-Level					
		[V]	[V]	[mA]	[mA]					
BL67-4DI4DO-PD	6827203	< 4.5	7...30	< 1.5	2.1...3.7	0.25; 2.5	0.5	4	8	KD
BL67-8XSG-PD²⁾	6827208	< 4.5	7...30	< 1.5	2.1...3.7	0.25; 2.5	0.5	8	12	KD
Basismodule/Base modules/ Modules de base										
BL67-B-8M8	6827188									
BL67-B-4M12	6827187									
BL67-B-4M12-P	6827195									
BL67-B-1M23	6827213									
BL67-B-1M23-VI	6827290									

Anschlussbelegung – Basismodule Pin configuration – Base modules Schéma de raccordement – Modules de base	BL67-B-8 M8 for BL67-8XSG-PD	BL67-B-4M12(-P) for BL67-8XSG-PD	BL67-B-1M23(-VI) for BL67-8XSG-PD
	<p>1 = V_{SENS} 3 = GND 4 = Signal A</p>	<p>1 = V_{SENS} 2 = Signal B 3 = GND 4 = Signal A 5 = PE</p>	<p>1 = Signal 0 7 = Signal 6 2 = Signal 1 8 = Signal 7 3 = Signal 2 9 = V_{SENS} 4 = Signal 3 10 = V_{SENS} 5 = Signal 4 11 = V_{SENS} 6 = Signal 5 12 = GND</p>

²⁾ konfigurierbarer I/O-Bereich/configurable I/O range/Plage E/S configurable

Analoge Ausgabemodule 2AO-I/AO-V
Analoge output modules 2AO-I/AO-V
Modules de sortie analogique 2AO-I/AO-V

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Ausgangstyp Output type Type de sortie	Nennspannung aus Klemme V _I Nom. voltage from terminal V _I Tension nominale de la borne V _I [V]	Nennstrom aus Klemme I _I Nom. curr. from terminal I _I Courant nominal de la borne I _I [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]	Übertragungsfrequenz Transmission frequency Fréquence de transmission [Hz]
	2	0/4 ... 20 mA	24	≤ 50	≤ 40	≤ 1	< 200
	2	-10/0 ... +10 VDC	24	≤ 50	≤ 60	≤ 1	< 100

Anschlussbelegung – Basismodule Pin configuration – Base modules Schéma de raccordement – Modules de base	BL67-B-2M12 for BL67-2AO-I	BL67-B-2M12 for BL67-2AO-V
		

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Bürde/Load/Charge			Kurzschluss-Strom Short-circuit current Courant court-circ. [mA]	Grundfehlergrenze (23 °C) Basic error at 23 °C Erreur de base à 23 °C [%]	Wiederholgenauigkeit Repeat accuracy Reproductibilité [%]	Messwertdarstellung Meas. value representation Représentation valeur mesurée [Bit]	Anzahl Parameterbytes No. of parameter bytes Nombre de bytes de param. [Byte]
		ohmsch ohmic ohmique	induktiv inductive inductive	kapazitiv capacitive capacitive					
BL67-2AO-I	6827179	< 0.45	< 1			< 0.2	0.05	12/16	6
BL67-2AO-V	6827180	> 1		> 1	40	< 0.2	0.05	12/16	6
Basismodule/Base modules/ Modules de base BL67-B-2M12	6827186								

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Nennspannung aus Klemme V _I Nom. voltage from terminal V _I Tension nominale de la borne V _I [V]	Nennstrom aus Klemme I _I Nom. curr. from terminal I _I Courant nominal de la borne I _I [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]
	1	24 DC	≤ 50	≤ 50	≤ 1
	1	24 DC	≤ 50	≤ 100	≤ 1
	1	24 DC	≤ 100	≤ 30	≤ 1

Anschlussbelegung – Basismodule	BL67-B-1M12-8 for BL67-1SSI	BL67-B-1M23 for BL67-1SSI	BL67-B-1M12 for BL67-1RS232	BL67-B-1M12-8 for BL67-1RS232
Pin configuration – Base modules	<p>1 = GND 5 = Data + 2 = V_{SENS} 6 = Data - 3 = CLK + 7 = n.c. 4 = CLK - 8 = shield</p>	<p>1 = GND 7 = n.c. 2 = V_{SENS} 8 = shield 3 = CLK + 9 = n.c. 4 = CLK - 10 = n.c. 5 = Data + 11 = n.c. 6 = Data - 12 = n.c.</p>	<p>1 = n.c. 2 = TxD 3 = GND_{ISO} 4 = RxD 5 = shield</p>	<p>1 = RxD 5 = GND_{ISO} 2 = TxD 6 = n.c. 3 = RTS 7 = n.c. 4 = CTS 8 = shield</p>
Schéma de raccordement – Modules de base				

Type	Typenbezeichnung	Ident-Nr.	Beschreibung
Type	Type	Ident no.	Description
Type	Type	No. d'ident.	Description
	BL67-1SSI	6827191	Anschluss von SSI-Geberrn/Connection of SSI sensors/Raccordement de détecteurs SSI
	Basismodule/Base modules/ Modules de base BL67-B-1M12-8 BL67-B-1M23	6827193 6827213	
	BL67-1RS232	6827181	Serielle Schnittstelle RS232/Serial interface RS232/Interface en série RS232
	Basismodule/Base modules/ Modules de base BL67-B-1M12 BL67-B-1M12-8 BL67-B-1M23 BL67-B-1M23-VI	6827185 6827193 6827213 6827290	
	BL67-1CVI	6827223	Anschluss von bis zu 8 CANopen Teilnehmern/ Connection of up to 8 CANopen participants/ Connexion de 8 participants CANopen au maximum
	Basismodule/Base modules/ Modules de base BL67-B-1M12	6827185	




Anschlussbelegung – Basismodule Pin configuration – Base modules Schéma de raccordement – Modules de base	BL67-B-1M23(-VI) for BL67-1RS232	BL67-B-1M12 for BL67-1CVI	BL67-B-1M12 for BL67-1RS485/422	BL67-B-1M12-8 for BL67-1RS485/422

Feldbus-technik/Fieldbus Technology/
Technique du bus de terrain

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Nennspannung aus Klemme V _I Nom. voltage from terminal V _I Tension nominale de la borne V _I [V]	Nennstrom aus Klemme I _I Nom. curr. from terminal I _I Courant nominal de la borne I _I [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]
	1	24 DC	≤ 50	≤ 60	≤ 1
	2	24 DC	≤ 100	≤ 30	≤ 1
	2	24 DC	≤ 100	≤ 30	≤ 1
	1	24 DC	≤ 100	≤ 50	≤ 1.2
	1	24 DC	≤ 100	≤ 50	≤ 1.2

Anschlussbelegung – Basismodule	BL67-B-1M12 for BL67-1RS485/422	BL67-B-1M12-8 for BL67-1RS485/422	BL67-B-1M23(-VI) for 1RS485/422
Pin configuration – Base modules	<p>1 = Tx – (RS485 B) 2 = Tx + (RS485 A) 3 = Rx – 4 = Rx + 5 = shield</p>	<p>1 = Rx + 5 = Rx – 2 = Tx + 6 = GND_{ISO} 3 = Tx – 7 = n.c. 4 = n.c. 8 = shield</p>	<p>1 = Rx + 7 = n.c. 2 = Tx + 8 = shield 3 = Tx – 9 = n.c. 4 = n.c. 10 = n.c. 5 = Rx – 11 = Tx – 6 = GND (iso) 12 = n.c.</p>
Schéma de raccordement – Modules de base			

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Beschreibung Description Description
BL67-1RS485/422	6827192	Serielle Schnittstelle RS485/422/Serial Interface RS485/422/Interface en série RS485/422
Basismodule/Base modules/ Modules de base BL67-B-1M12 BL67-B-1M12-8 BL67-B-1M23 BL67-B-1M23-VI	6827185 6827193 6827213 6827290	
BL67-2RFID-A BL67-2RFID-S	6827225 6827305	Interface zum Anschluss von <i>BL ident</i> [®] -Schreib-Lese-Köpfen/ Interface for connection of <i>BL ident</i> [®] read-write heads/ Interface pour le raccordement de têtes d'écriture/de lecture <i>BL ident</i> [®]
Basismodule/Base modules/ Modules de base BL67-B-2M12	6827186	
BL67-1CNT/ENC	6827224	Erfassung normierter Zählsignale/Detection of standard counting signals/ Détection de signaux de comptage standard
Basismodule/Base modules/ Modules de base BL67-B-1M12-8 BL67-B-1M23	6827193 6827213	

Anschlussbelegung – Basismodule	BL67-B-2M12 for BL67-2RFID-A(-S)	BL67-B-1M12-8 for BL67-1CNT/ENC	BL67-B-1M23 for BL67-1CNT/ENC
Pin configuration – Base modules	 <p>1 = BN (V_{sens}) 2 = BK (Data) 3 = BU (GND) 4 = WH (Data) 5 = shield</p>	 <p>1 = GND 5 = B 2 = Venc 6 = B-bar 3 = A 7 = Z 4 = A-bar 8 = Z-bar</p>	 <p>1 = DI 7 = Z 2 = Venc 8 = Z-bar 3 = A 9 = XSG 0 4 = A-bar 10 = XSG 1 5 = B 11 = DO 6 = B-bar 12 = GND</p>
Schéma de raccordement – Modules de base			

BL20 – Modulares I/O-Busklemmensystem

Mit dem universellen Busklemmensystem BL20 lassen sich maßgeschneiderte Lösungen für den I/O-IP20-Bereich umsetzen.

Systemaufbau

BL20-Gateways mit integrierter Versorgung für PROFIBUS-DP, DeviceNet™ oder CANopen dienen als Schnittstelle zwischen Feldbus und internem Modulbus und ermöglichen die Kommunikation zu den feldbusneutralen I/O-Modulen. Weitere Gateways sind in der Vorbereitung.

Alle I/O-Module können in beliebiger Reihenfolge zusammengesetzt werden, sodass ein individueller Feldbusknoten (Elektronikmodule, Basismodule) entsteht, der die jeweiligen Anforderungen punktgenau erfüllt.

Durch die Trennung von Elektronik und Anschluss-technik ist es möglich, einzelne Module eines Feldbusknotens im laufenden Betrieb ohne Ausfall der übrigen Module zu tauschen. Die Elektronikmodule sind in Scheiben- oder Blockausführung erhältlich; die Basismodule können mit Zugfeder- oder Schraubanschlusstechnik aufgebaut werden.

Darüber hinaus bietet BL20 mit den ECONOMY-Modulen auch digitale I/O-Scheiben mit integrierter Anschluss-technik. Hohe Signaldichte (bis zu 16 Kanäle bei 12,6 mm Breite) und einfache Installation sind die Vorteile dieser Module. Beide Varianten – ECONOMY-Module sowie separate Elektronik- und Basismodule – können in einem gemeinsamen Feldbusknoten gemischt werden. Damit gewinnt der Anwender ein Höchstmaß an Flexibilität.

I/O-Ausführung

Das BL20-I/O-Spektrum reicht von standardisierten digitalen und analogen Ein- und Ausgängen bis hin zu Technologiemodulen, wie z. B. Zähler und SSI-Geber sowie diverse serielle Schnittstellen. Zusätzlich lassen sich Motorstartermodule – eine Kombination aus Motorschutzschalter und Leistungsschutz – in den Feldbusknoten integrieren.

BL ident®

BL ident® ist ein RFID-Komplettsystem, das primär auf den Einsatz in industrieller Umgebung zugeschnitten ist und hier seine besonderen Stärken zeigt. Es basiert auf den modularen I/O-Systemen BL67 (Feldmontage) und BL20 (Schaltschrankmontage) und besteht aus Datenträgern, Schreib-Lese-Köpfen, Verbindungstechnik und Gateways.

BL20-Motorstarter

Die Motorstarter bauen konsequent auf die Vorteile des BL20-Systems:

- Modular
- Flexibel
- Einfache Montage und Bedienung
- Kostengünstig

BL20-Motorstarter erfüllen als Direkt- und Wendestarter die Anforderungen der Industrieschaltgeräte-Norm IEC/EN 60947-4-1.

BL 20 – Modular terminal I/O bus system

With the terminal bus system BL20 it is possible to implement tailor-made solutions for IP20 I/O applications.

System design

BL20 gateways with integrated supply for PROFIBUS-DP, DeviceNet™ or CANopen serve as the interface between the fieldbus and the internal module bus, and enable communication with the fieldbus-independent I/O modules. Further gateways are in preparation.

All I/O modules can be put together in any sequence so that an individual fieldbus node (electronic modules, base modules) results, which exactly fulfils the demands of the application.

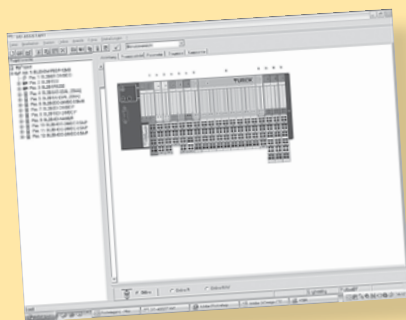
Due to the separation of electronics and connection technology, it is possible to exchange individual modules of a fieldbus node during operation while the other modules remain live. The modules are available in slice or block design; the base modules can feature tension spring or screw connection technology.

Furthermore, the BL20 also features digital I/O slice design modules with integrated connection engineering on the ECONOMY modules. High signal densities (up to 16 channels in 12.6 mm width) and simple installation are the advantages of these modules.

Both variants – ECONOMY modules as well as separate electronics and base modules – can be combined in a common fieldbus node. Thus the user achieves the highest level of flexibility.

EINFACHE PROJEKTIERUNG MIT DEM „I/O-ASSISTANT“

- FDT/DTM-basierendes Software-Tool
- Offline-Planung und-Projektierung von *piconet*®, BL20 und BL67-Modulen
- Konfiguration, Parametrierung und Inbetriebnahme einzelner Module
- Lesen und Setzen von Prozessdaten
- Inbetriebnahmehilfe bei der Überprüfung der Verdrahtung und Sensorik ohne SPS
- Realitätsgetreue Darstellung der projektierten Komponenten
- Automatische Dokumentation projektiierter Systeme



BL20 – Système bornes bus E/S modulaire

I/O design

The BL20 I/O spectrum ranges from standard digital and analogue inputs and outputs to technology modules, e.g. counters and SSI sensors as well as various serial interfaces. Furthermore, motor starter modules – a combination of overload relay and contactor – can be integrated into the fieldbus nodes.

BL ident®

BL ident® is a complete RFID system which is mainly designed for industrial applications and thus develops its special strengths in this field. It is based on the modular I/O systems BL67 (field application) and BL20 (cabinet mounting) and consists of data carriers (tags), read-write heads, interconnects and gateways.

BL20 motor starters

The motor starters consequently build upon the advantages of the BL20 system:

- Modular
- Flexible
- Simple mounting and operation
- Cost-efficient

BL20 direct and reversing motor starters fulfil the requirements of the IEC/EN 60947-4-1 norm for industrial switching devices.

Le système bus sur bornes BL20 est conçu pour la réalisation de solutions sur mesure d'E/S déportées en IP20.

Structure du système

Les passerelles BL20 à alimentation intégrée pour PROFIBUS-DP, DeviceNet™ ou CANopen sont utilisées comme interface entre le bus de terrain et le module de bus interne et établissent la communication avec les modules E/S indépendants du protocole. D'autres passerelles sont en préparation.

Tous les modules E/S peuvent être montés arbitrairement, de sorte qu'une station de bus de terrain individuelle puisse être formée (embases, modules électroniques) remplissant parfaitement les exigences respectives.

La séparation de l'électronique et la connectique permet d'échanger les différents modules d'une station de bus de terrain en service sans que les autres modules s'arrêtent de fonctionner. Les modules électroniques sont disponibles en version disque ou bloc, les embases peuvent être montées par la technique de raccordement par cage à ressort ou par raccord à vis.

Le BL20 offre également par les modules ECONOMY des disques E/S digitaux à connectique intégrée. Les avantages de ces modules sont une densité de signaux élevée (16 canaux au maximum à une largeur de 12,6 mm) et une installation simple.

Les deux variantes – les modules ECONOMY, ainsi que les modules électroniques et les embases – peuvent être combinées dans une station de bus de terrain commune. De cette manière l'utilisateur obtient un maximum de flexibilité.

Versión E/S

Le spectre E/S BL20 s'étend d'entrées/sorties numériques et analogiques standardisées à des modules de technologie, tels que, par exemple, les modules de comptage et les modules pour capteurs SSI, ainsi que plusieurs interfaces en série. En plus, les modules de démarreur de moteur – une combinaison d'un disjoncteur protecteur et de contacteur – peuvent être intégrés dans la station de bus de terrain.

BL ident®

BL ident® est un système RFID complet conçu en premier lieu pour les applications industrielles. Le système s'est basé sur les systèmes E/S modulaires BL67 (montage sur le site) et BL20 (montage dans l'armoire électrique) et se compose d'étiquettes électroniques, de têtes d'écriture/de lecture, de la connectique et d'interfaces (passerelle et modules E/S RFID).

Démarreur de moteur BL20

Les démarreurs de moteur se fondent logiquement sur les avantages du système BL20:

- modulaire
- flexible
- montage et manipulation simples
- économique

Les démarreurs de moteur directs et inverseurs BL20 remplissent les exigences de la norme industrielle IEC/EN 60947-4-1.

SIMPLE ENGINEERING WITH THE "I/O-ASSISTANT"

- FDT/DTM based software tool
- Offline planning and engineering of *piconet*®, BL20 and BL67 modules
- Configuration, parameterisation and set-up of individual modules
- Reading and setting of process data
- Commissioning assistance with the testing of the wiring and sensors without a PLC
- Realistic representation of the engineered components
- Automatic documentation of engineered systems

PLANIFICATION FACILE PAR LE „I/O-ASSISTANT“

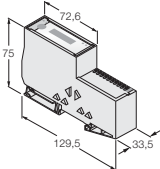
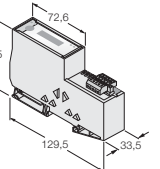
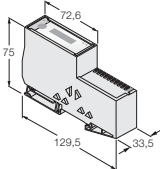
- Instrument de logiciel FDT/DTM
- Planification et projection offline des modules *piconet*®, BL20 et BL67
- Configuration, paramétrage et mise en service de modules individuels
- Lecture et entrée de données de processus
- Aide de mise en service lors du contrôle du câblage et des détecteurs sans PLC
- Représentation réaliste des composants projetés
- Documentation automatique des systèmes projetés

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Feldbus Fieldbus Bus de terrain	Anschlussstechnik Feldbus Fieldbus connection technology Système de connexion Bus de terrain (IEC 853)	Anschlussstechnik Versorgung Connect. technology Supply Système de connexion Alimentation	Übertragungs- rate Transmission rate Vitesse de transmission [Bit/s]	Nenn- spannung Rated voltage Tension nominale [VDC]	Nennstrom aus Modulbus Nom. current from module bus Courant nominal du bus de module [mA]
	PROFIBUS-DP	1 x SUB-D, -C	Schraubanschluss screw connection raccord à vis	9,6 k...12 M	24	≤ 430
	DeviceNet™	Open Connector	Schraubanschluss screw connection raccord à vis	125 k...500 k	24	≤ 250
	CANopen	Open Connector	Schraubanschluss screw connection raccord à vis	20 k...1 M	24	≤ 350

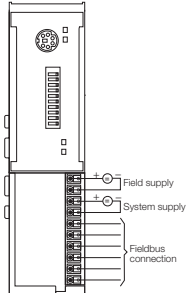
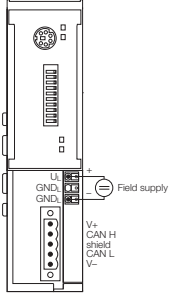
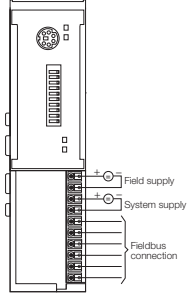
1) im Lieferumfang enthalten: 2 x Endwinkel BL20-WEW-35/2-SW , 1 x Abschlussplatte BL20-ABPL/
included in range of supply: 2 x end bracket BL20-WEW-35/2-SW, 1 x end plate BL20-ABPL/
fait partie de la livraison: 2 x équerre de montage terminale BL20-WEW-35/2-SW, 1 x plaque d'obturation BL20-ABPL

Anschlussbelegung	Wiring diagram BL20-GW-DPV1	Wiring diagram BL20-GWBR-DNET	Wiring diagram BL20-GWBR-CANOPEN
Pin configuration			
Schéma de raccordement			

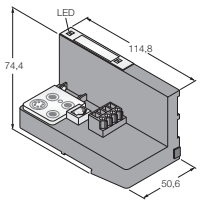
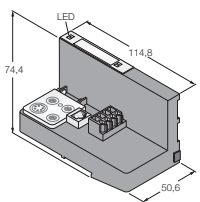
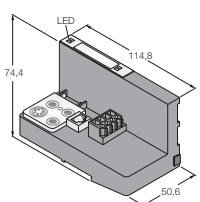
Typenbezeichnung ¹⁾ Type ¹⁾ Type ¹⁾	Ident-Nr. Ident no. No. d'ident.	Adressierung Feldbus Fieldbus addressing Adressage bus de terrain (dez./dec./déc.)	Adressbereich Feldbus Fieldbus address range Zone d'adresse bus de terrain (dez./dec./déc.)	Anzahl Para- meterbytes No. of para- meter bytes Nombre de bytes de paramètres	Anzahl Diag- nosebytes No. of diag- nostic bytes Nombre de bytes de diagnostic	Service- schnittstelle Service interface Interface de service (IEC 853)
BL20-GW-DPV1	6827234	2 x Drehschalter 2 x rotary switches 2 x comm. rotatif	1...99	5	3	↪ PS/2
BL20-GWBR-DNET	6827168	2 Drehschalter 2 x rotary switches 2 x comm. rotatif	0...63	-	-	↪ PS/2
BL20-GWBR-CANOPEN	6827167	2 Drehschalter 2 x rotary switches 2 x comm. rotatif	1...99	-	-	↪ PS/2

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Feldbus Fieldbus Bus de terrain	Anschlusstechnik Feldbus Fieldbus connection technology Système de connexion Bus de terrain (IEC 853)	Anschlusstechnik Versorgung Connect. technology Supply Système de connexion Alimentation	Übertragungs- rate Transmission rate Vitesse de transmission [Bit/s]	Nenn- spannung Rated voltage Tension nominale [VDC]	Nennstrom aus Modulbus Nom. current from module bus Courant nominal du bus de module [mA]	
	PROFIBUS-DP	Push-in-Klemmen Push in connectors Bornes push-in	Push-in-Klemmen Push in connectors Bornes push-in	9,6 k...12 M	24	≤ 430	
	DeviceNet™	Open Connector	Push-in-Klemmen/ Open Connector Push in connectors/ Open Connector Bornes push-in/ Open Connector	125 k...500 k	24	≤ 250	
	CANopen	Push-in-Klemmen Push in connectors Bornes push-in	Push-in-Klemmen Push in connectors Bornes push-in	20 k...1 M	24	≤ 430	

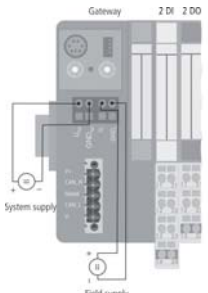
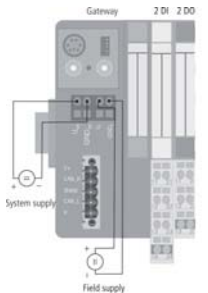
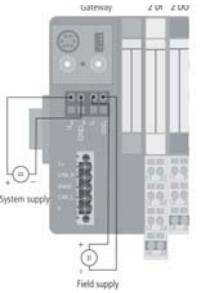
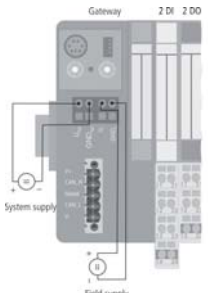
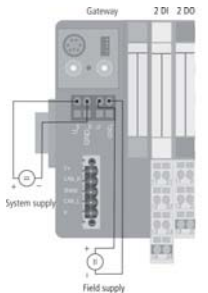
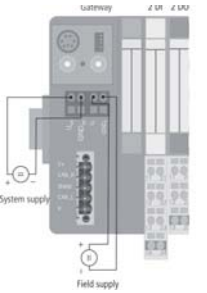
1) im Lieferumfang enthalten: 2 x Endwinkel BL20-WEW-35/2-SW , 1 x Abschlussplatte BL20-ABPL/
 included in range of supply: 2 x end bracket BL20-WEW-35/2-SW, 1 x end plate BL20-ABPL/
 fait partie de la livraison: 2 x équerre de montage terminale BL20-WEW-35/2-SW, 1 x plaque d'obturation BL20-ABPL

Anschlussbelegung	Wiring diagram BL20-E-GW-DP	Wiring diagram BL20-E-GW-DN	Wiring diagram BL20-E-GW-CO
Pin configuration			
Schéma de raccordement			

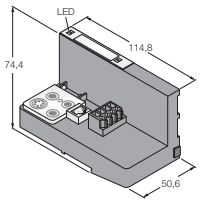
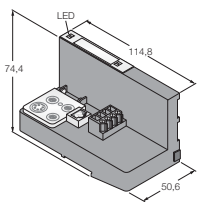
Typenbezeichnung ¹⁾ Type ¹⁾ Type ¹⁾	Ident-Nr. Ident no. No. d'ident.	Adressierung Feldbus Fieldbus addressing Adressage bus de terrain (dez./dec./déc.)	Adressbereich Feldbus Fieldbus address range Zone d'adresse bus de terrain (dez./dec./déc.)	Anzahl Para- meterbytes No. of para- meter bytes Nombre de bytes de paramètres	Anzahl Diag- nosebytes No. of diag- nostic bytes Nombre de bytes de diagnostic	Service- schnittstelle Service interface Interface de service (☞ 853)
BL20-E-GW-DP	6827250	DIP-Schalter DIP switches Comm. DIP	1...126	5	3	☞ PS/2
BL20-E-GW-DN	6827301	DIP-Schalter DIP switches Comm. DIP	0...63	–	–	☞ PS/2
BL20-E-GW-CO	6827252	DIP-Schalter DIP switches Comm. DIP	1...63	–	–	☞ PS/2

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Feldbus Fieldbus Bus de terrain	Anschluss-technik Feldbus Fieldbus connection technology Système de connexion Bus de terrain (IEC 853)	Anschluss-technik Versorgung Connect. technology Supply Système de connexion Alimentation	Übertragungs- rate Transmission rate Vitesse de transmission [Bit/s]	Nenn- spannung Rated voltage Tension nominale [VDC]	Nennstrom aus Modulbus Nom. current from module bus Courant nominal du bus de module [mA]
	PROFINET	RJ45	Schraubanschluss screw connection raccord à vis	10/100 M	24	≤ 500
	Modbus TCP	RJ45	Schraubanschluss screw connection raccord à vis	10/100 M	24	≤ 500
	EtherNet/IP	RJ45	Schraubanschluss screw connection raccord à vis	10/100 M	24	≤ 500

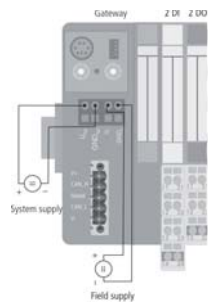
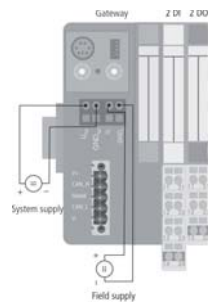
1) im Lieferumfang enthalten: 2 x Endwinkel BL20-WEW-35/2-SW , 1 x Abschlussplatte BL20-ABPL/
 included in range of supply: 2 x end bracket BL20-WEW-35/2-SW, 1 x end plate BL20-ABPL/
 fait partie de la livraison: 2 x équerre de montage terminale BL20-WEW-35/2-SW, 1 x plaque d'obturation BL20-ABPL

Anschlussbelegung	Wiring diagram BL20-GW-EN-PN	Wiring diagram BL20-GW-EN	Wiring diagram BL20-GW-EN-IP
Pin configuration			
Schéma de raccordement			

Typenbezeichnung ¹⁾ Type ¹⁾ Type ¹⁾	Ident-Nr. Ident no. No. d'ident.	Adressierung Feldbus Fieldbus addressing Adressage bus de terrain (dez./dec./déc.)	Adressbereich Feldbus Fieldbus address range Zone d'adresse bus de terrain (dez./dec./déc.)	Anzahl Para- meterbytes No. of para- meter bytes Nombre de bytes de paramètres	Anzahl Diag- nosebytes No. of diag- nostic bytes Nombre de bytes de diagnostic	Service- schnittstelle Service interface Interface de service (IEC 853)
BL20-GW-EN-PN	6827300	PROFINET konform conf. to PROFINET conf. à PROFINET Drehschalter/rotary switches/com. rotatif BOOTP, DHCP, I/O-ASSISTANT	-	-	-	⌋ PS/2
BL20-GW-EN	6827237	Drehschalter/rotary switches/com. rotatif BOOTP, DHCP, I/O-ASSISTANT	-	-	-	⌋ PS/2
BL20-GW-EN-IP	6827247	Drehschalter/rotary switches/com. rotatif BOOTP, DHCP, I/O-ASSISTANT	-	-	-	⌋ PS/2

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Feldbus Fieldbus Bus de terrain	Anschlussstechnik Feldbus Fieldbus connection technology Système de connexion Bus de terrain (IEC 853)	Anschlussstechnik Versorgung Connect. technology Supply Système de connexion Alimentation	Übertragungs- rate Transmission rate Vitesse de transmission [Bit/s]	Nenn- spannung Rated voltage Tension nominale [VDC]	Nennstrom aus Modulbus Nom. current from module bus Courant nominal du bus de module [mA]
	Modbus TCP	RJ45	Schraubanschluss screw connection raccord à vis	10/100 M	24	≤ 500
	EtherNet/IP	RJ45	Schraubanschluss screw connection raccord à vis	10/100 M	24	≤ 500

1) im Lieferumfang enthalten: 2 x Endwinkel BL20-WEW-35/2-SW , 1 x Abschlussplatte BL20-ABPL/
 included in range of supply: 2 x end bracket BL20-WEW-35/2-SW, 1 x end plate BL20-ABPL/
 fait partie de la livraison: 2 x équerre de montage terminale BL20-WEW-35/2-SW, 1 x plaque d'obturation BL20-ABPL

Anschlussbelegung	Wiring diagram BL20-PG-EN	Wiring diagram BL20-PG-EN-IP
Pin configuration		
Schéma de raccordement		

Typenbezeichnung ¹⁾ Type ¹⁾ Type ¹⁾	Ident-Nr. Ident no. No. d'ident.	Adressierung Feldbus Feldbus addressing Adressage bus de terrain (dez./dec./déc.)	Adressbereich Feldbus Feldbus address range Zone d'adresse bus de terrain (dez./dec./déc.)	Anzahl Para- meterbytes No. of para- meter bytes Nombre de bytes de paramètres	Anzahl Diag- nosebytes No. of diag- nostic bytes Nombre de bytes de diagnostic	Service- schnittstelle Service interface Interface de service (IEC 853)
BL20-PG-EN	6827249	Drehschalter/rotary switches/com. rotatif BOOTP, DHCP, I/O-ASSISTANT	-	-	-	⌋ PS/2
BL20-PG-EN-IP	6827248	Drehschalter/rotary switches/com. rotatif BOOTP, DHCP, I/O-ASSISTANT	-	-	-	⌋ PS/2

2) **SPS-Daten/SPS data/Données PLC**

Programmierung/Programming/Programmation	CoDeSys V2.3
Freigeben für CoDeSys-Version/Released for CoDeSys version/Autoriser pour version CoDeSys	V 2.3.6.4
Programmiersprachen/Programming languages/Langages de programmation	IEC 61131-3 (AWL, KOP, FUP, AS, ST)/(STL, LD, CFC ST, SFC)
Applikationstasks/Application tasks/Tâches d'application	1
Anzahl POEs/Number of POEs/Nombre de POE	1024
Programmierschnittstelle/Programming interface/Interface de programmation	RS232-Schnittstelle/RS232 interface/Interface RS232, Ethernet
Prozessor/Processor/Processeur	RISC, 32 Bit
Zykluszeit/Cycle time/Temps de cycle	< 1 ms für 1000 AWL-Befehle (ohne E/A-Zyklus)/ < 1 ms for 1000 STL commands (without I/O cycle)/ < 1 ms pour 1000 commandes AWL (sans cycle E/S)
Programmspeicher/Programming memory/Mémoire de programme	512 kByte
Datenspeicher/Data memory/Mémoire de données	512 kByte
Eingangsdaten/Input data/Données d'entrée	4 kByte
Ausgangsdaten/Output data/Données de sortie	4 kByte
Remanentspeicher/Remanent memory/Mémoire rémanente	16 kByte

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Systemversorgung $U_{SYS}^{(3)}$ System supply $U_{SYS}^{(3)}$ Alimentation du système $U_{SYS}^{(3)}$ [V]	Zulässiger Bereich für $U_{SYS} = 24/5$ VDC Admissible range for $U_{SYS} = 24/5$ VDC Plage admissible pour $U_{SYS} = 24/5$ VDC [V]	Feldversorgung $U_L^{(3)}$ Field supply $U_L^{(3)}$ Alimentation des modules $U_L^{(3)}$ [V]	Zulässiger Bereich für U_L Admissible range for U_L Plage admissible pour U_L [V]	Nennstrom aus Modulbus I_{MB} Nom. curr. from module bus I_{MB} Courant nom. du bus de module I_{MB} [mA]
	24 VDC / 5 VDC	18...30 VDC	24 VDC	18...30 VDC	-
	-	-	24 VDC	18...30 VDC	≤28
	-	-	120 / 230 VAC	gemäß EN 61131-2 acc. to EN 61131-2 suivant EN 61131-2	≤25

**Anschlussbelegung –
Basismodule**

**Pin configuration –
Base modules**

**Schéma de
raccordement –
Modules de base**

	BL20-P4x-SBBC/BL20-P4x-SBBC-B ¹⁾ for BL20-BR-24VDC-D	BL20-P3x-SBB/BL20-P3x-SBB-B ¹⁾ for BL20-BR-24VDC-D

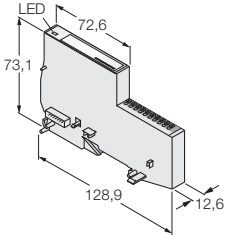
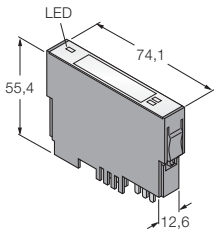
¹⁾ x = T oder/or/ou S (S = Schraubverbindung/screw connection /raccord à vis, T = Zugfeder/Tension clamp/cage à ressort)

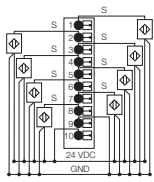
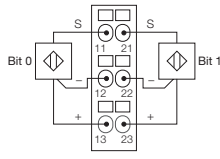
²⁾ Basismodul ohne Gatewayversorgung/Base module without Gateway supply/Module de base sans alimentation de passerelle

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Max. Feldversorgungsstrom I_{EI} Max. field supply current I_{EI} Courant d'alimentation max. des modules I_{EI} [A]	Max. Systemversorgungsstrom I_{MB} Max. system current I_{MB} Courant d'alimentation max. du système I_{MB} [A]	Anzahl Diagnosebits Number of diagnostic bits Nombre de bits de diagnostic [Bit]
BL20-BR-24VDC-D	6827006	10	1.5	4
Basismodule/Base modules/ Modules de base BL20-P3T-SBB BL20-P3S-SBB BL20-P4T-SBBC BL20-P4S-SBBC BL20-P3T-SBB-B ²⁾ BL20-P3S-SBB-B ²⁾ BL20-P4T-SBBC-B ²⁾ BL20-P4S-SBBC-B ²⁾	6827036 6827037 6827038 6827039 6827040 6827041 6827042 6827043			
BL20-PF-24VDC-D	6827007	10	-	4
Basismodule/Base modules/ Modules de base BL20-P3T-SBB BL20-P3S-SBB BL20-P4T-SBBC BL20-P4S-SBBC	6827036 6827037 6827038 6827039			
BL20-PF-120/230VAC-D	6827008	10	-	4
Basismodule/Base modules/ Modules de base BL20-P3T-SBB BL20-P3S-SBB BL20-P4T-SBBC BL20-P4S-SBBC	6827036 6827037 6827038 6827039			

Anschlussbelegung – Basismodule	BL20-P3x-SBB¹⁾ for BL20-PF-24VDC-D	BL20-P4x-SBBC¹⁾ for BL20-PF-24VDC-D	BL20-P3x-SBB¹⁾ for BL20-PF-120/130VAC-D	BL20-P4x-SBBC¹⁾ for BL20-PF-120/130VAC-D
Pin configuration – Base modules				
Schéma de raccordement – Modules de base				

³⁾ Spannungsanomalien gem. EN 61000-4-11 und EN 61131-2/Voltage anomalies acc. to EN 61000-4-11 and EN 61131-2/Anomalies de tension suivant EN 61000-4-11 et EN 61131-2

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Nennspannung aus Klemme Nom. voltage from terminal Tension nominale de la borne [V]	Nennstrom aus Feldversorgung I _{EI} Nom. curr. from field supply I _{EI} Cour. nom. de l'aliment. des mod. I _{EI} [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]	Schaltfunktion Switching function Fonction de commutation
	8	24 DC	≤ 2	≤ 30	≤ 1.5	npn
	16	24 DC	≤ 2	≤ 30	≤ 1.5	npn
	2	24 DC	≤ 20	≤ 28	≤ 0.7	npn
	2	24 DC	≤ 20	≤ 28	≤ 0.7	nPN
	2	120 / 230 AC	≤ 20	≤ 28	≤ 1	

Anschlussbelegung – Basismodule Pin configuration – Base modules Schéma de raccordement – Modules de base	Wiring diagram for BL20-E-8DI-24VDC-P	BL20-S3x-SBB ¹⁾ for BL20-2DI-24VDC-P	BL20-S4x-SBBC ¹⁾ for BL20-2DI-24VDC-P
			

¹⁾ x = T oder/or/ou S (S = Schraubverbindung/screw connection /raccord à vis, T = Zugfeder/Tension clamp/cage à ressort)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Eingangsspannung Input voltage Tension d'entrée		Eingangsstrom Input current Courant d'entrée		Eingangsverzögerung Input delay Retard d'entrée
		Low-Level	High-Level	Low-Level	High-Level	
		[V]	[V]	[mA]	[mA]	
BL20-E-8DI-24VDC-P	6827227	-30... +5 DC	11... 30 DC	-1... 1.5	2...5	< 0.2
BL20-E-16DI-24VDC-P	6827231	-30... +5 DC	11... 30 DC	-1... 1.5	2...5	< 0.2
Basismodule werden nicht benötigt/Base modules are not required/Des modules de base ne sont pas requis						
BL20-2DI-24VDC-P	6827009	-30... +5 DC	15... 30 DC	0... 1.5	2...10	< 0.2
BL20-2DI-24VDC-N	6827010	> 13 DC	0... +5 DC	0...1.2	1.3... 6	< 0.2
BL20-2DI-120/230VAC-P	6827011	0... 20 AC	79... 265 AC	0... 1	3... 10	< 20
Basismodule/Base modules/ Modules de base						
BL20-S3T-SBB	6827044					
BL20-S3S-SBB	6827045					
BL20-S4T-SBBC	6827050					
BL20-S4S-SBBC	6827051					

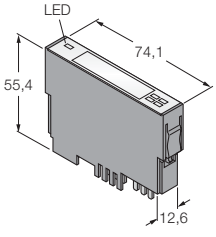
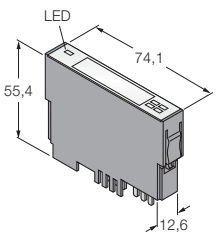
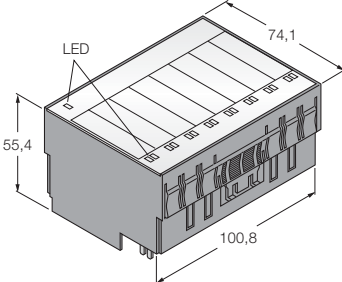
Anschlussbelegung – Basismodule

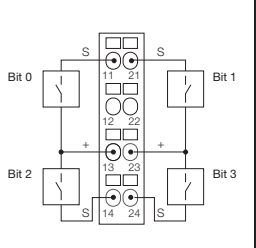
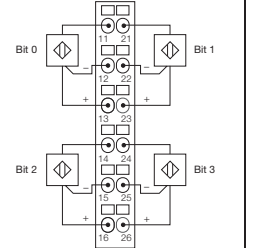
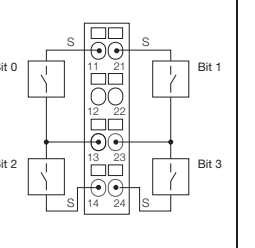
Pin configuration – Base modules

Schéma de raccordement – Modules de base

BL20-S3x-SBB¹⁾ for BL20-2DI-24VDC-N	BL20-S4x-SBBC¹⁾ for BL20-2DI-24VDC-N	BL20-S3x-SBB¹⁾ for BL20-2DI-120/230VAC-2A	BL20-S4x-SBBC¹⁾ for BL20-2DI-120/230VAC-2A

Feldbus-technik/Fieldbus Technology/
Technique du bus de terrain

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Nennspannung aus Klemme Nom. voltage from terminal Tension nominale de la borne [V]	Nennstrom aus Feldversorgung I _{EI} Nom. curr. from field supply I _{EI} Cour. nom. de l'aliment. des mod. I _{EI} [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]	Schaltfunktion Switching function Fonction de commutation
	4	24 DC	≤ 40	≤ 28	≤ 1	pnp
	4	24 DC	≤ 40	≤ 28	≤ 1	nnp
	4	24 DC	≤ 30	≤ 40	≤ 1	NAMUR
	16	24 DC	≤ 40	≤ 45	≤ 2.5	pnp
	32	24 DC	≤ 30	≤ 45	≤ 4.2	pnp

Anschlussbelegung – Basismodule Pin configuration – Base modules Schéma de raccordement – Modules de base	BL20-S4x-SBBS ¹⁾ for BL20-4DI-24VDC-P	BL20-S6x-SBBSBB ¹⁾ for BL20-4DI-24VDC-P	BL20-S4x-SBBS ¹⁾ for BL20-4DI-24VDC-N	BL20-S6x-SBBSBB ¹⁾ for BL20-4DI-24VDC-N
				

¹⁾ x = T oder/or/ou S (S = Schraubverbindung/screw connection /raccord à vis, T = Zugfeder/Tension clamp/cage à ressort)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Eingangsspannung Input voltage Tension d'entrée		Eingangsstrom Input current Courant d'entrée		Eingangsverzögerung Input delay Retard d'entrée
		Low-Level	High-Level	Low-Level	High-Level	
		[V]	[V]	[mA]	[mA]	
BL20-4DI-24VDC-P	6827012	-30... +5 DC	15... 30 DC	0... 1.5	2...10	< 0.2
BL20-4DI-24VDC-N	6827013	> 13 DC	0... +5 DC	0 ...1.2	1.3... 6	< 0.2
Basismodule/Base modules/ Modules de base BL20-S4T-SBBS BL20-S4S-SBBS BL20-S6T-SBBSBB BL20-S6S-SBBSBB	6827046 6827047 6827052 6827053					
BL20-4DI-NAMUR	6827212	EN 60947-5-6	EN 60947-5-6	EN 60947-5-6	EN 60947-5-6	parametrierbar parameterisable paramétrable
Basismodule/Base modules/ Modules de base BL20-S4T-SBBS BL20-S4S-SBBS	6827046 6827047					
BL20-16DI-24VDC-P	6827014	-30... +5 DC	15... 30 DC	0... 1.5	2... 10	< 0.2
Basismodule/Base modules/ Modules de base BL20-B3T-SBB BL20-B3S-SBB BL20-B4T-SBBC BL20-B4S-SBBC	6827054 6827055 6827056 6827057					
BL20-32DI-24VDC-P	6827015	-30... +5 DC	15... 30 VDC	< 1,5	2...10	< 0.2
Basismodule/Base modules/ Modules de base BL20-B6T-SBBSBB BL20-B6S-SBBSBB	6827065 6827067					

**Anschlussbelegung –
Basismodule**

**Pin configuration –
Base modules**

**Schéma de
raccordement –
Modules de base**

BL20-S4x-SBBS¹⁾ for BL20-4DI-NAMUR	BL20-B3x-SBB¹⁾ for BL20-16DI-24VDC-P	BL20-B4x-SBBC¹⁾ for BL20-16DI-24VDC-P	BL20-B6x-SBBSBB¹⁾ for BL20-32DI-24VDC-P

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Eingangstyp Input type Type d'entrée [mA]	Nennspannung aus Klemme Nom. voltage from terminal Tension nominale de la borne [V]	Nennstrom aus Feldversorgung I _{EI} Nom. curr. from field supply I _{EI} Cour. nom. de l'aliment. des mod. I _{EI} [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]	Eingangswiderstand Input resistance Resistance d'entrée [Ω]	
	1	0/4 ... 20 mA	24 DC	≤ 50	≤ 41	≤ 1	< 0.125	
	2	0/4 ... 20 mA	24 DC	≤ 12	≤ 35	≤ 1	< 0.125	
	1	-10/0 ... +10 VDC	24 DC	≤ 50	≤ 41	≤ 1	> 98,5	
	2	-10/0 ... +10 VDC	24 DC	≤ 12	≤ 35	≤ 1	> 98,5	
	4	0/4 ... 20 mA / -10/0 ... +10 VDC	24 DC	≤ 20	≤ 50	≤ 1	< 0.062 > 98,5	

Anschlussbelegung – Basismodule Pin configuration – Base modules Schéma de raccordement – Modules de base	BL20-S4x-SBBS¹⁾ for BL20-1AI-I(0/4...20MA) and BL20-1AI-U(10/0...+10VDC)		BL20-S4x-SBBS¹⁾ for BL20-2AI-I(0/4...20MA) and BL20-2AI-U(10/0...+10VDC)

¹⁾ x = T oder/or/ou S (S = Schraubverbindung/screw connection /raccord à vis, T = Zugfeder/Tension clamp/cage à ressort)

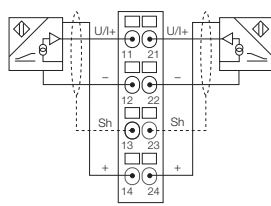
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Grenzfrequenz Limit frequency Fréquence limite [Hz]	Grundfehlergrenze (23 °C) Basic error at 23 °C Erreur de base à 23 °C [%]	Wiederholgenauigkeit Repeat accuracy Reproductibilité [%]	Messwertdarstellung Measuring value representation Représent. valeurs mesurées [Bit]	Anzahl Parameterbytes Number of parameter bytes Nombre de bytes de paramètre [Byte]	Anzahl Diagnosebytes No. of diagnostic bytes Nombre de bytes de diagn. [Byte]
BL20-1AI-I(0/4...20MA)	6827018	< 200	< 0.2	0.09	14 Bit	1	1
BL20-2AI-I(0/4...20MA)	6827021	< 50	< 0.2	0.05	16 Bit	2	2
BL20-1AI-U(-10/0...+10VDC)	6827019	< 200	< 0.2	0.05	14 Bit	1	1
BL20-2AI-U(-10/0...+10VDC)	6827022	< 50	< 0.2	0.05	16 Bit	2	2
Basismodule/Base modules/ Modules de base							
BL20-S3T-SBB	6827044						
BL20-S3S-SBB	6827045						
BL20-S4T-SBBS	6827046						
BL20-S4S-SBBS	6827047						
BL20-4AI-U/I	6827217	< 20	< 0.3	0.05	16 Bit	4	4
Basismodule/Base modules/ Modules de base							
BL20-S6T-SBCSBC	6827064						
BL20-S6S-SBCSBC	6827066						

**Anschlussbelegung –
Basismodule**

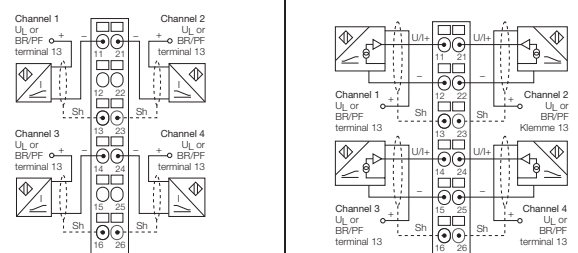
**Pin configuration –
Base modules**

**Schéma de
raccordement –
Modules de base**

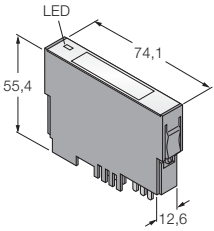
**BL20-S4x-SBBS¹⁾ for
BL20-2AI-I(0/4...20MA)
and BL20-2AI-U(10/0...+10VDC)**

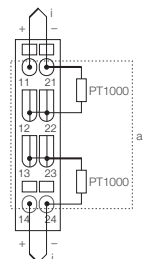
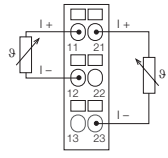
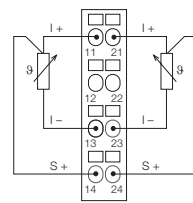


**BL20-S6x-SBCSBC¹⁾ for BL20-4AI-U/I
and BL20-4AI-U/I**



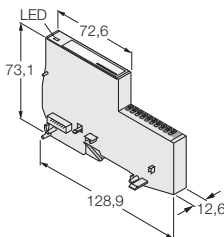
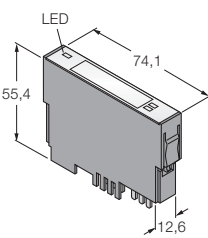
Analoge Eingabemodule 2 AI-Thermo/AI-Pt/Ni
Analogue input modules 2 AI-Thermo/AI-Pt/Ni
Modules d'entrée analogique 2 AI-Thermo/AI-Pt/Ni

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Anschließbare Sensoren Connectable sensors DéTECTEURS raccordables	Nennspannung aus Klemme Nom. voltage from terminal Tension nominale de la borne [V]	Nennstrom aus Feldversorgung I _{EI} Nom. curr. from field supply I _{EI} Cour. nom. de l'aliment. des mod. I _{EI} [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]	Spannungsauslösung Voltage resolution Résolution de tension
	2	Pt100, Pt500, Pt1000, Ni100, Ni1000	24 DC	≤ 30	≤ 45	≤ 1	
	2	Typ/Type B, E, J, K, N, R, S, T	24 DC	≤ 30	≤ 45	≤ 1	± 50 mV: < 2 V ± 100 mV: < 4 V ± 500 mV: < 20 V ± 1000 mV: < 50 V

Anschlussbelegung – Basismodule	BL20-S3x-SBB¹⁾ for BL20-2AI-PT/NI-2/3	BL20-S4x-SBBS¹⁾ for BL20-2AI-PT/NI-2/3	BL20-S4x-SBBS-CJ¹⁾ for BL20-2AI-THERMO-PI
Pin configuration – Base modules	2-Leiter/2-wire/2 fils	3-Leiter/3-wire/3 fils	
Schéma de raccordement – Modules de base			

¹⁾ x = T oder/or/ou S (S = Schraubverbindung/screw connection /raccord à vis, T = Zugfeder/Tension clamp/cage à ressort)

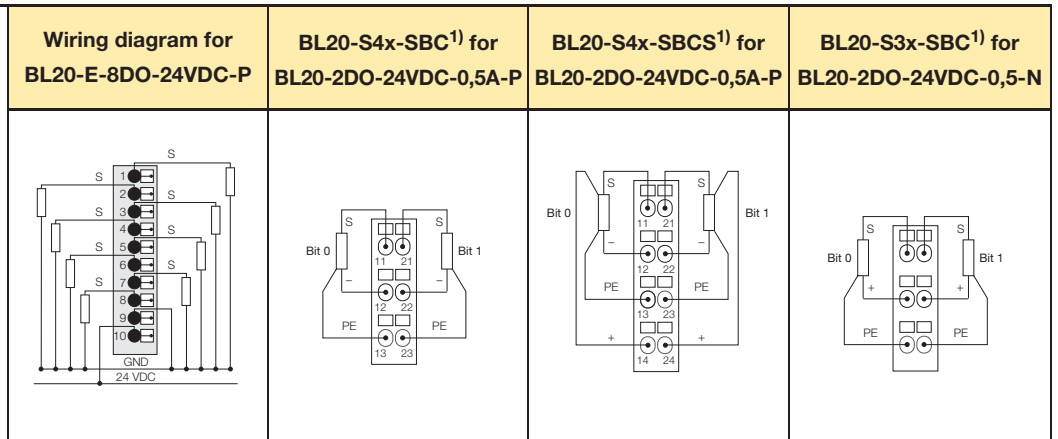
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Offsetfehler Offset error Erreur offset [%]	Linearität Linearity Linéarité [%]	Grundfehler- grenze (23 °C) Basic error at 23 °C Erreur de base à 23 °C [%]	Wiederhol- genauigkeit Repeat accuracy Reproductibilité [%]	Messwert- darstellung Measur. value representation Représentation valeur mesurée [Bit]	Anzahl Parameterbytes Number of parameter bytes Nombre de bytes de paramètre [Byte]	Anzahl Diagnosebytes No. of diag- nostic bytes Nombre de bytes de diagn. [Byte]
BL20-2AI-PT/NI-2/3	6827017	≤0.1	≤0.1	< 0.2	0.05	16	4	2
Basismodule/Base modules/Modules de base BL20-S3T-SBB BL20-S3S-SBB BL20-S4T-SBBS BL20-S4S-SBBS	6827044 6827045 6827046 6827047							
BL20-2AI-THERMO-PI	6827020	≤0.1	≤0.1	< 0.2	0.05	16	2	2
Basismodule/Base modules/Modules de base BL20-S4T-SBBS-CJ BL20-S4S-SBBS-CJ	6827048 6827049							

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Nennspannung aus Klemme Nom. voltage from terminal Tension nominale de la borne [V]	Nennstrom aus Feldversorgung I _{EI} ²⁾ Nom. curr. from field supply I _{EI} ²⁾ Cour. nom. de l'aliment. des mod. I _{EI} ²⁾ [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]	Schaltfunktion Switching function Fonction de commutation
	8	24 DC	≤ 10	≤ 30	≤ 1.5	pnp
	16	24 DC	≤ 10	≤ 30	≤ 1.5	pnp
	2	24 DC	≤ 20	≤ 32	≤ 1	pnp
	2	24 DC	≤ 20	≤ 32	≤ 1	nnp
	2	24 DC	≤ 50	≤ 33	≤ 1	pnp
	2	120 / 230 AC	≤ 20	≤ 35	≤ 1	-

Anschlussbelegung – Basismodule

Pin configuration – Base modules

Schéma de raccordement – Modules de base



¹⁾ x = T oder/or/ou S (S = Schraubverbindung/screw connection /raccord à vis, T = Zugfeder/Tension clamp/cage à ressort)
²⁾ wenn Laststrom = 0/when load current = 0/si courant de charge = 0

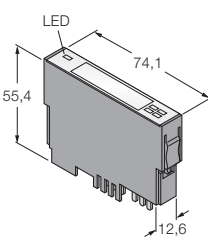
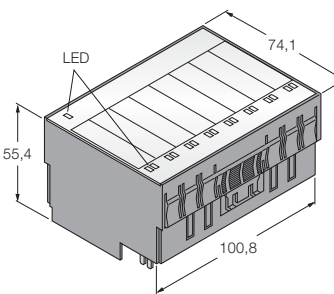
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Ausgangsstrom pro Kanal Output current per channel Courant de sortie par canal [A]	Lastwiderstand/ Load resistance/ Résistance de charge [Ω/[H]/[W]			Schaltfrequenz/ Switching frequency/ Fréquence de commutation [Hz]			Anzahl Diagnosebits No. of diagnostic bits Nombre de bits de diagn. [Bit]	
			ohmsch ohmic ohmique	inductiv inductive inductive	Lampenl. lamp load lampe	ohmsch ohmic ohmique	inductiv inductive inductive	Lampenl. lamp load lampe		
BL20-E-8DO-24VDC-P	6827226	0.5	48	1.2	6	< 100	< 2	< 10	-	
BL20-E-16DO-24VDC-P	6827230	0.5	48	1.2	6	< 100	< 2	< 10	-	
Basismodule werden nicht benötigt/Base modules are not required/Des modules de base ne sont pas requis										
BL20-2DO-24VDC-0,5A-P	6827024	0.5	> 48	< 1.2	< 3	< 5000	< 2	< 10	2	
BL20-2DO-24VDC-0,5A-N	6827025	0.5	> 48	< 1.2	< 12	< 100	< 2	< 10	2	
BL20-2DO-24VDC-2A-P	6827026	2	> 12	< 1.2	< 6	< 5000	< 2	< 10	2	
BL20-2DO-120/230VAC-0,5A	6827137	0.5	> 48	< 1.2	-	-	-	-	2	
Basismodule/Base modules/ Modules de base										
BL20-S3T-SBC	6827058									
BL20-S3S-SBC	6827059									
BL20-S4T-SBCS	6827063									
BL20-S4S-SBCS	6827060									

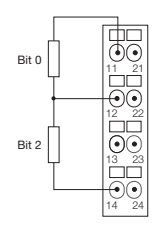
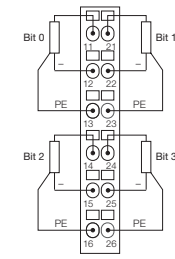
Anschlussbelegung – Basismodule

Pin configuration – Base modules

Schéma de raccordement – Modules de base

	BL20-S4x-SBCS¹⁾ for BL20-2DO-24VDC-0,5A-N	BL20-S3x-SBC¹⁾ for BL20-2DO-24VDC-2A-P	BL20-S4x-SBCS¹⁾ for BL20-2DO-24VDC-2A-P

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Nennspannung aus Klemme Nom. voltage from terminal Tension nominale de la borne [V]	Nennstrom aus Feldversorgung I _{EI} ⁽²⁾ Nom. curr. from field supply I _{EI} ⁽²⁾ Cour. nom. de l'aliment. des mod. I _{EI} ⁽²⁾ [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]	Schaltfunktion Switching function Fonction de commutation
	4	24 VDC	≤25	≤30	≤1	pnp
	16	24 VDC	≤50	≤30	≤4	pnp
	32	24 VDC	≤50	≤30	≤4	pnp

Anschlussbelegung – Basismodule Pin configuration – Base modules Schéma de raccordement – Modules de base	BL20-S4x-SBCS¹⁾ for BL20-4DO-24VDC-0,5A-P	BL20-S6x-SBCSBC¹⁾ for BL20-4DO-24VDC-0,5A-P
		

¹⁾ x = T oder/or/ou S (S = Schraubverbindung/screw connection /raccord à vis, T = Zugfeder/Tension clamp/cage à ressort)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Ausgangsstrom pro Kanal Output current per channel Courant de sortie par canal [A]	Lastwiderstand/ Load resistance/ Résistance de charge [Ω/[H]/[W]			Schaltfrequenz/ Switching frequency/ Fréquence de commutation [Hz]			Anzahl Diagnosebits No. of diagnostic bits Nombre de bits de diagn. [Bit]
			ohmsch ohmic ohmique	inductiv inductive inductive	Lampenl. lamp load lampe	ohmsch ohmic ohmique	inductiv inductive inductive	Lampenl. lamp load lampe	
BL20-4DO-24VDC-0,5A-P Basismodule/Base modules/ Modules de base BL20-S4T-SBCS BL20-S4S-SBCS BL20-S6T-SBCSBC BL20-S6S-SBCSBC	6827023 6827063 6827060 6827064 6827066	0.5	> 48	< 1.2	< 6	< 5000	< 2	< 10	1
BL20-16DO-24VDC-0,5A-P Basismodule/Base modules/ Modules de base BL20-B3T-SBC BL20-B3S-SBC	6827027 6827061 6827062	0.5	> 48	< 1.2	< 3	< 100	< 2	< 10	4
BL20-32DO-24VDC-0,5A-P Basismodule/Base modules/ Modules de base BL20-B6T-SBCSBC BL20-B6S-SBCSBC	6827220 6827218 6827219	0.5	> 48	< 1.2	< 6	< 100	< 2	< 10	8

**Anschlussbelegung –
Basismodule**

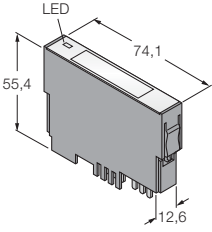
**Pin configuration –
Base modules**

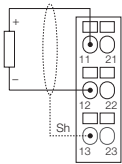
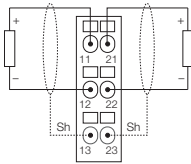
**Schéma de
raccordement –
Modules de base**

	BL20-B3x-SBC¹⁾ for BL20-16DO-24VDC-0,5-P	BL20-B6x-SBCSBC¹⁾ for BL20-32DO-24VDC-0,5A-P

²⁾ wenn Laststrom = 0/when load current = 0/si courant de charge = 0

Analoge Ausgabemodule 1/2 AO, 24 VDC
Analogue output modules 1/2 AO, 24 VDC
Modules de sortie analogique 1/2 AO, 24 VDC

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Ausgangstyp Output type Type de sortie	Nennspannung aus Klemme Nom. voltage from terminal Tension nominale de la borne [V]	Nennstrom aus Feldversorgung I _{EI} Nom. curr. from field supply I _{EI} Cour. nom. de l'aliment. des mod. I _{EI} [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]	Übertragungsfrequenz Synchronisation factor Fréquence de transmission [Hz]
	1	0/4...20 mA	24 DC	≤ 50	≤ 39	≤ 1	< 200
	2	0/4...20 mA	24 DC	≤ 50	≤ 40	≤ 1	< 200
	2	-10/0...+10 VDC	24 DC	≤ 50	≤ 43	≤ 1	< 100

Anschlussbelegung – Basismodule Pin configuration – Base modules Schéma de raccordement – Modules de base	BL20-S3x-SBB¹⁾ for BL20-1AO-I(0/4...20MA)	BL20-S3x-SBB¹⁾ for BL20-2AO-I(0/4...20MA)
		

¹⁾ x = T oder/or/ou S (S = Schraubverbindung/screw connection /raccord à vis, T = Zugfeder/Tension clamp/cage à ressort)

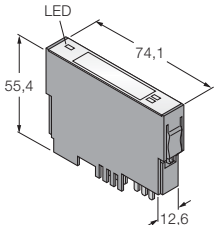



Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Bürde/Load/Charge [kΩ]/[mH]/[μF]			Kurzschl.- Strom Short-circuit current Courant court-circ. [mA]	Grundfehler- grenze (23 °C) Basic error at 23 °C Erreur de base à 23 °C [%]	Wiederhol- genauigkeit Repeat accuracy Reproduc- tibilité [%]	Messwert- darstellung Meas. value representation Représentation valeur mesurée [Bit]	Anzahl Para- meterbytes No. of para- meter bytes Nombre de bytes de paramètre [Byte]
		ohmsch ohmic ohmique	induktiv inductive inductive	kapazitiv capacitive capacitive					
BL20-1AO-I(0/4...20MA)	6827032	< 0.45	< 1	-	-	< 0.2	0.05	16	3
BL20-2AO-I(4...20MA)	6827034	< 0.45	< 1	-	-	< 0.2	0.05	16	6
BL20-2AO-U(-10/0...+10VDC)	6827033	> 1	-	> 1	40	< 0.2	0.05	16	6
Basismodule/Base modules/ Modules de base BL20-S3T-SBB BL20-S3S-SBB	6827044 6827045								

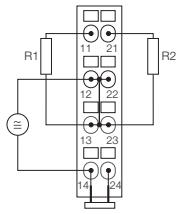
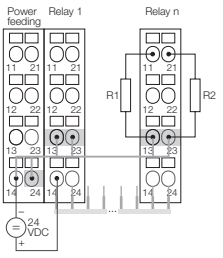
**Anschlussbelegung –
Basismodule**

**Pin configuration –
Base modules**

**Schéma de
raccordement –
Modules de base**

<p>BL20-S3x-SBB¹⁾ for BL20-2AO-U(-10/0...+10V)</p>	

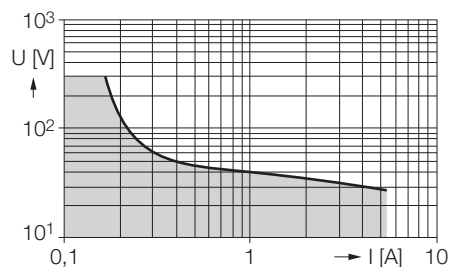
Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle und Schaltfunktion Channels and switching function Canaux et fonction de commutation	Nennspannung aus Klemme Nom. voltage from terminal Tension nominale de la borne [V]	Nennstrom aus Feldversorgung I _{EI} Nom. curr. from field supply I _{EI} Cour. nom. de l'aliment. des mod. I _{EI} [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]	Gleichzeitigkeitsfaktor Synchronisation factor Facteur de simultanéité [%]
	2, 	24 VDC	≤ 20	≤ 28	≤ 1	1
	2, 	24 VDC	≤ 20	≤ 28	≤ 1	1
	2, 	24 VDC	≤ 20	≤ 28	≤ 1	1

Anschlussbelegung – Basismodule Pin configuration – Base modules Schéma de raccordement – Modules de base	BL20-S4x-SBBS ¹⁾ for BL20-2DO-R-NC and BL 20-2DO-R-NO	BL20-S4x-SBCS ¹⁾ for BL20-2DO-R-NC and BL 20-2DO-R-NO
		

¹⁾ x = T oder/or/ou S (S = Schraubverbindung/screw connection /raccord à vis, T = Zugfeder/Tension clamp/cage à ressort)

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Lastart Load type Type de charge	Nennlastspannung Nom. load voltage Tension. nom. en décharge VAC/VDC	Gebrauchskategorie	
				Utilisation category	
				DC	AC
BL20-2DO-R-NC	6827028	ohmsch, induktiv, Lampenlast ohmic, inductive, lamp load ohmique, inductive, lampe	230/30	13	15
BL20-2DO-R-NO	6827029	ohmsch, induktiv, Lampenlast ohmic, inductive, lamp load ohmique, inductive, lampe	230/30	13	15
BL20-2DO-R-CO	6827030	ohmsch, induktiv, Lampenlast ohmic, inductive, lamp load ohmique, inductive, lampe	230/30	13	15
Basismodule/Base modules/Modules de base BL20-S4T-SBBS BL20-S4S-SBBS BL20-S4T-SBCS BL20-S4S-SBCS	6827046 6827047 6827063 6827060				

Ausgangsstrom bei Gleichspannung (ohmsch)
Output current at DC voltage (ohmic)
Courant de sortie en cas d'une tension continue (ohmique)



Definition/Définition:

Bei 1000 Schaltspielen darf kein stehender Lichtbogen bei einer Brenndauer > 1000 ms auftreten.

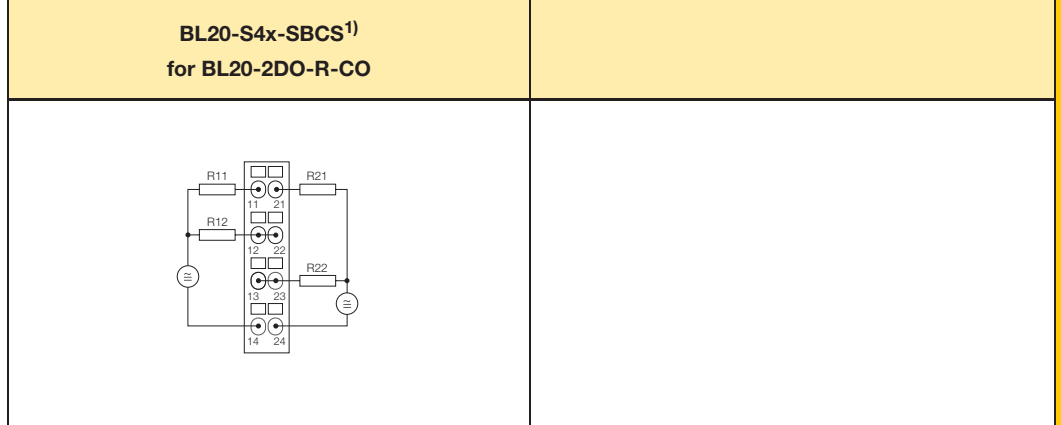
At 1000 switching cycles, no sustained arcs with a burning life of > 1000 ms may occur.

En cas de 1000 opérations, aucun arc électrique constant avec une durée de service > 1000 ms ne peut se produire.

Anschlussbelegung – Basismodule

Pin configuration – Base modules

Schéma de raccordement – Modules de base



Feldbustechnik/Fieldbus Technology/
Technique du bus de terrain

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kanäle Channels Canaux	Nennspannung aus Klemme Nom. voltage from terminal Tension nominale de la borne [V]	Nennstrom aus Feldversorgung I _{EI} ⁽²⁾ Nom. curr. from field supply I _{EI} ⁽²⁾ Cour. nom. de l'aliment. des mod. I _{EI} ⁽²⁾ [mA]	Nennstrom aus Modulbus I _{MB} Nom. curr. from module bus I _{MB} Courant nom. du bus de module I _{MB} [mA]	Verlustleistung des Moduls Module Power loss Perte en puissance du module [W]
	1	24 DC	≤ 50	≤ 40	≤ 1.3
	1	24 DC	≤ 25	≤ 50	≤ 1
	1	24 DC	≤ 25	≤ 140	≤ 1
	1	24 DC	≤ 25	≤ 60	≤ 1

**Anschlussbelegung –
Basismodule**

**Pin configuration –
Base modules**

**Schéma de
raccordement –
Modules de base**

BL20-S4x-SBBS¹⁾ for BL20-1CNT-24VDC	BL20-S4x-SBBS¹⁾ for BL20-1SSI

¹⁾ x = T oder/or/ou S (S = Schraubverbindung/screw connection /raccord à vis, T = Zugfeder/Tension clamp/cage à ressort)

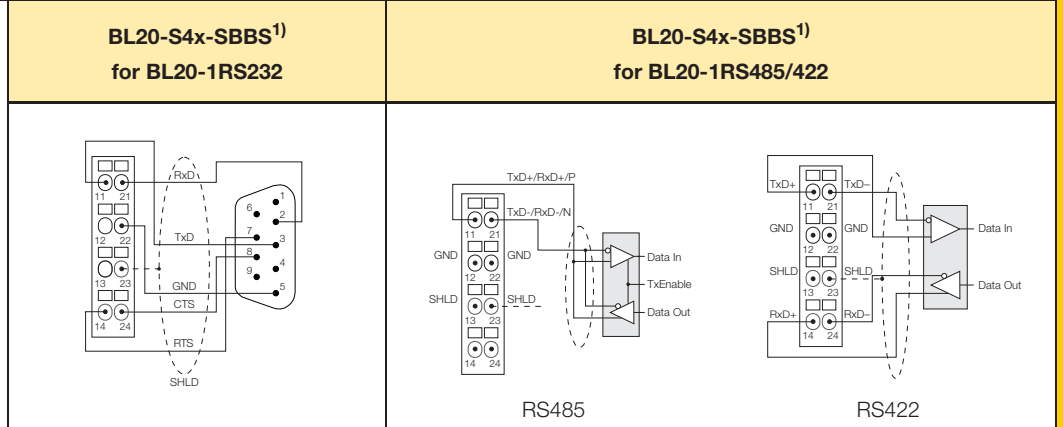
²⁾ wenn Laststrom = 0/when load current = 0/si courant de charge = 0

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Beschreibung Description Description	Digital- eingang Digital input Entrée digitale	Digital- ausgang Digital output Sortie digitale	Anzahl Para- meterbytes No. of param- eter bytes Nombre de bytes de paramètres [Byte]	Anzahl Diagnosebytes No. of diag- nostic bytes Nombre de bytes de diagn. [Byte]
BL20-1CNT-24VDC Basismodule/Base modules/ Modules de base BL20-S4T-SBBS BL20-S4S-SBBS	6827031 6827046 6827047	Erfassung von normierten Zählsignalen/ Detection of standard counting signals/ Détection de signaux de comptage normalisés	1 x 24 VDC	1 x 24 VDC, 2 A	15	1
BL20-1SSI Basismodule/Base modules/ Modules de base BL20-S4T-SBBS BL20-S4S-SBBS	6827166 6827046 6827047	Anschluss von SSI-Gebern/Connection of SSI sensors/Raccord. de détecteurs SSI	-	-	4	1
BL20-1RS232 Basismodule/Base modules/ Modules de base BL20-S4T-SBBS BL20-S4S-SBBS	6827169 6827046 6827047	Serielle Schnittstelle RS232/Serial interface RS232/Interface en série RS232	-	-	4	1
BL20-1RS485/422 Basismodule/Base modules/ Modules de base BL20-S4T-SBBS BL20-S4S-SBBS	6827165 6827046 6827047	Serielle Schnittstelle RS485/422/Serial interface RS485/422/Interface en série RS485/422	-	-	4	1

**Anschlussbelegung –
Basismodule**

**Pin configuration –
Base modules**

**Schéma de
raccordement –
Modules de base**



Bus- und Versorgungskabel/ Zubehör

Vorkonfektionierte und geprüfte Steckverbindersysteme reduzieren erheblich die Fehlerquote beim Aufbau von Feldbus-systemen und beschleunigen die Installation: Die Komponenten werden einfach zusammengesteckt – „Plug and Play“ heißt die Devise!

TURCK bietet **passive Komponenten** zum Aufbau und den Anschluss von Feldgeräten für die meisten Bussysteme. Alle Komponenten entsprechen den jeweiligen Feldbusspezifikationen und garantieren – korrekte Anwendung vorausgesetzt – die Schutzart IP67, teilweise auch IP68.

Das Programm umfasst:

- Busleitungen mit angespritzten Steckverbindern zum schnellen, einfachen Anschluss der aktiven Feldbuskomponenten in M12- oder 7/8“-Technologie
- T-Stücke, 7/8“ oder M12, für Abzweige
- Verteilerbausteine zum Aufbau sternförmiger Topologien
- Schaltschrank-Durchführungen mit integrierten Steckverbindern zum einfachen Anschluss der Leitungen

Die **Anschluss-technik** greift auf bewährte Industriestandards zurück:

- Vergoldete Kontakte garantieren lange Lebensdauer und sicheren Kontakt mit sehr geringen Übergangswiderständen.
- Überwurfmuttern aus vernickeltem Messing gewährleisten einen sicheren, gegen zufälliges Lösen geschützten Anschluss.
- Großflächiges Auflegen des Schirms auf die Überwurfmuttern (M12) ermöglichen den Aufbau komplett durchgeschirmter Systeme und sichern dadurch einen störungsfreien Betrieb.

Die verfügbaren **Kabelqualitäten** sind für alle Einsatzbedingungen ausgelegt:

- Einfache PVC-Leitungen für problemlose Applikationen
- Extrem robuste PUR-Leitungen für hohe mechanische Beanspruchungen
- Hochflexible TPUS- oder PVC-Leitungen für „bewegte“ Applikationen wie z. B. Robotern oder Schleppketten
- Hochtemperaturfeste und schwerentflammbare Leitungen mit UL-Zulassung
- Armierte Leitungen als Ersatz für Rohrleitungen

Bus and power cables/ connector products and accessories

Premoulded and tested connector systems significantly reduce the error rate and set-up time of fieldbus installations. The components are simply plugged together – “Plug and Play” is the motto!

TURCK offers **passive components** for fieldbus installations and connection of field devices to the most frequently used bus systems. All components comply with the according fieldbus specifications and guarantee protection rating IP67 or even IP68, provided all connections are established correctly.

The programme comprises:

- Bus cables with integral connectors for fast and simple connection of active fieldbus components in M12 or 7/8“ technology
- M12 or 7/8“ tees for drop cables
- Junction boxes for implementing star-shape topologies
- Feed-through connections for cabinet mounting with integrated connectors for simple cable connection



Câbles bus et d'alimentation/ produits de raccordement et accessoires

The **connection technology** is based on proven industrial standards:

- Gold-plated contacts guarantee long lifetime and secure contacting with extremely low contact resistance values
- Coupling nuts made of nickel-plated brass ensure secure connections, protected against incidental disconnection
- Full shielding up to the coupling nut (M12) enables set-up of fully shielded systems and secures error-free operation.

The available **cable materials** are suited to all environmental conditions:

- simple PVC cables for uncomplicated applications
- extremely robust PUR cables for high mechanical strain
- highly flexible TPUS or PVC cables for "moving" applications such as robot or trailing cable applications
- high temperature versions and flame-retardant cables with UL approval
- armoured cables eliminating the need for extra cable conduits

Les systèmes de connexion pré-confectionnés réduisent considérablement le taux d'erreurs lors du montage des systèmes bus de terrain et facilitent l'installation:

les composants sont simplement connectés entre eux. « Plug and Play », telle est la devise.

TURCK propose des **composants passifs** pour la réalisation et le raccordement des appareils de terrain pour la plupart des bus de terrain usuels.

Tous les composants sont conformes aux spécifications respectives des bus de terrain et garantissent – sous réserve d'une utilisation correcte – le mode de protection IP67.

Le programme comprend:

- câbles bus à connecteurs surmoulés pour un raccordement rapide et simple des composants bus de terrain actifs via des connecteurs M12 ou 7/8"
- raccords en T, 7/8" ou M12 pour les dérivations
- boîtiers de répartitions pour les topologies en étoile
- traversées de cloison pour un raccordement simple sur armoires de commande

Le **système de connexion** fait appel à des standards industriels éprouvés:

- les contacts dorés garantissent une longue durée de vie et une bonne qualité avec des résistances de contact très faibles.
- les écrous de serrage en laiton nickelé assurent un raccordement sûr (protection contre un desserrage intempêtif).
- le blindage, en contact sur une grande surface avec les écrous de serrage M12, permet la réalisation de systèmes entièrement blindés et assurent ainsi un fonctionnement dépourvu de parasites.

Les **qualités de câble** disponibles sont conçues pour tous les types d'application:

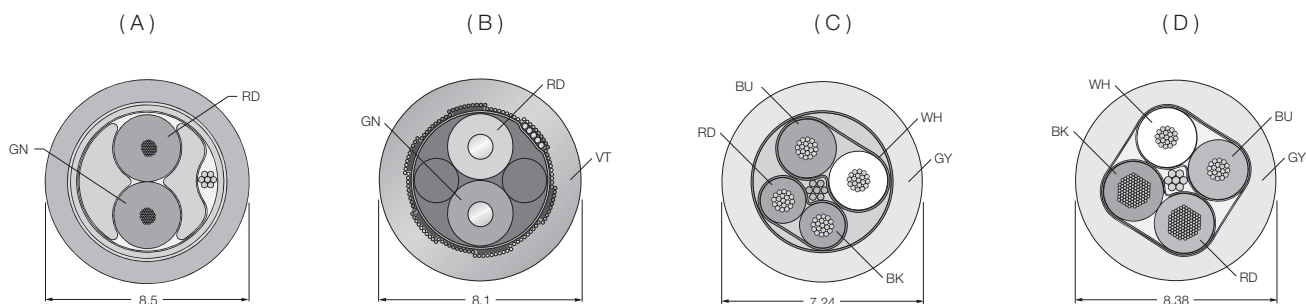
- câbles PVC pour applications standard
- câbles PUR particulièrement robustes pour des exigences mécaniques élevées
- câbles TPUS ou PVC très flexibles pour des applications "en mouvement" telles que les robots ou les chaînes porte câbles
- câbles à haute résistance thermique avec homologation UL
- câbles armés



Buskabel-Qualitäten PROFIBUS-DP, CAN (DeviceNet™, CANopen), Ethernet
Bus cable materials PROFIBUS-DP, CAN (DeviceNet™, CANopen), Ethernet
Qualités de câbles bus PROFIBUS-DP, CAN (DeviceNet™, CANopen), Ethernet

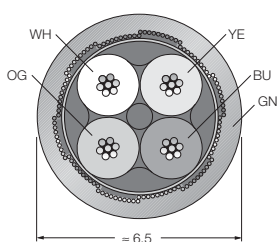
Feldbus Fieldbus Bus de terrain	Kabeltyp Cable type Type de câble	Abb. Fig. Fig.	Material Kabelmantel Material cable jacket Matériau gaine de câble (IEC 852)	Halogenfrei Halogen-free Sans halogène	Schleppkettenfähig Trailing capabilty Utilisable sur chaînes de transport de câble	Leiterquerschnitt Cond. cross section Section de conducteur [mm ²]	Nennstrom Rated current Courant nominal [A]	DC-Widerstand DC resistance Résistance DC [Ω/Km]	
PROFIBUS-DP	451	(A)	TPUS	•	•	2 x 0.34	4	50	
	452	(B)	PVC	–	–	2 x 0.34	4	50	
DeviceNet™, CANopen	572	(C)	PVC	–	–	2 x 0.21	6.4	54.1	
	5711	(D)	PVC	–	–	2 x 0.52	9.6	34.1	
	5723	(D)	PUR	–	•	2 x 0.52	9.6	34.1	
Ethernet Leitungen/ cables/ câbles acc. to ISO/IEC 11801, CAT 5	441/S2174	(E)	PUR	–	•	4 x 0.32	4	53	
	841	(F)	PVC	–	•	8 x 0.21	1.5	94	
	843	(F)	PVC	–	–	8 x 0.21	1.5	94	

Abbildungen/Figures/Figures

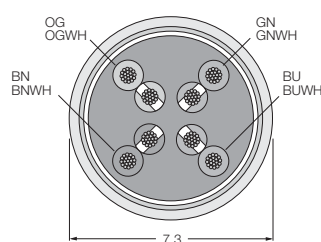


	Power pair			Nennwerte Ratings Valeurs nominales	Nom. Impedanz Power pair nom. impedance Power pair Impédance nom. Power pair [Ω]	Nom. Kapazität Power pair nom. capacitance Power pair Capacitance nom. Power pair [pF/m]	Schirmung Shield Blindage	Zulassungen Approvals Homologations
	Leiterquerschnitt Cond. cross section Section de conducteur [mm ²]	Nennstrom Rated current Courant nominal [A]	DC-Widerstand DC resistance Résistance DC [Ω/Km]					
	–	–	–	300 V, 80 °C	150 (3...20 MHz)	30	•	-
				300 V, 75 °C	110 (1 MHz)	30	•	UL
	2 x 0.33	6.4	54.1	300 V, 75 °C	126 (1 MHz)	37.17	•	UL, GSA
	2 x 1.3	15.2	13.5	300 V, 75 °C	110 (1 MHz)	40.52	•	UL, CSA
	2 x 1.04	13.6	16.9	300 V, 80 °C	110 (1 MHz)	40.52	•	UL, CSA
	–	–	–	300 V, 75 °C	120 (1 MHz)	52	•	UL
	–	–	–	300 V, 75 °C	100 (1 MHz)	46	•	UL
	–	–	–	300 V, 75 °C	100 (1 MHz)	46	•	UL

(E)



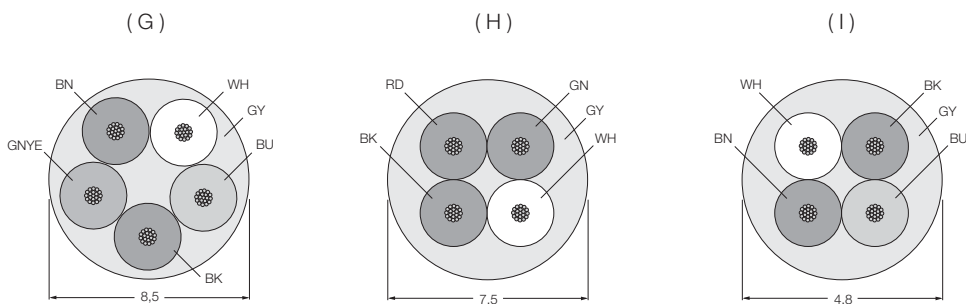
(F)



Versorgungskabel-Qualitäten PROFIBUS-DP, CAN (DeviceNet™, CANopen)
Power cable materials PROFIBUS-DP, CAN (DeviceNet™, CANopen)
Qualités de câbles d'alimentation PROFIBUS-DP, CAN (DeviceNet™, CANopen)

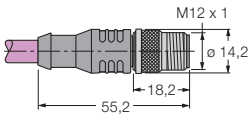
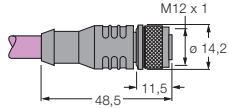
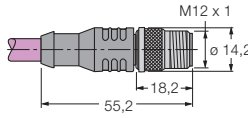
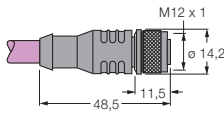
Nutzbar für Gerätefamilien (Bussystem) Usable for product family (Bus system) Utilisable pour famille de produit (système bus)	Kabeltyp Cable type Type de câble	Abb. Fig. Fig.	Material Kabelmantel Material cable jacket Matériau gaine de câble (IEC 852)	Halogenfrei Halogen-free Sans halogène	Schleppkettenfähig Trailing capability Utilisable sur chaînes de transport de câble	Leiter-Querschnitt Conductor cross section Section de conducteur [mm ²]
BL67, FLDP, PDP, FXDP, FENP	52	(G)	PUR	•	•	5 x 1.5
FDN...	43	(H)	PUR	•	•	4 x 1.5
<i>piconet</i> ®	IPS	(I)	PUR	-	•	4 x 0.34

Abbildungen/Figures/Figures



	Nennstrom Rated current Courant nominal [A]	DC-Widerstand DC resistance Résistance DC [Ω/Km]	Nennwerte Ratings Valeurs nominales	Nom. Impedanz Power pair nom. impedance Power pair Impédance nom. Power pair [Ω]	Nom.Kapazität Power pair nom. capacitance Power pair Capacitance nom. Power pair [pF/m]	Schirmung Shield Blindage	Zulassungen Approvals Homologations
	15	13.3	240 V, 90 °C	-	-	-	-
	15	13.3	240 V, 90 °C	-	-	-	-
	4	58.7	240 V, 80 °C	-	-	-	-

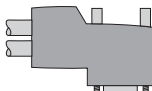
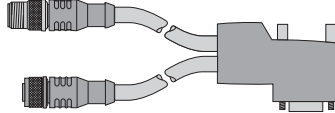
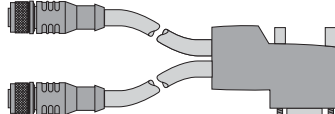

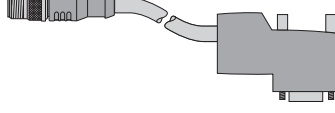
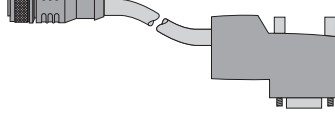
Vorkonfektionierte Buskabel für PROFIBUS-DP, Typ 451¹⁾
Premoulded bus cables for PROFIBUS-DP, Type 451¹⁾
Câbles bus préconfectionnés pour PROFIBUS-DP, type 451¹⁾

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kabeltyp	Kabellänge	Werkstoffe/Materials/Matériaux (ISO 852)		
	Cable type	Cable length	Kabelmantel Cable jacket Gaine de protection	Überwurfmutter Coupling nut Écrou de serrage	Griffteil Grip Manchon
	Type de câble (ISO 710, 712)	Longueur de câble [m]			
Kabel-Meterware Bulk cable Câble en pièces	451	30	TPUS		
	451	150	TPUS		
	451	500	TPUS		
	451	6	TPUS	CuZn-Ni	PUR
	451	10	TPUS	CuZn-Ni	PUR
	451	15	TPUS	CuZn-Ni	PUR
	451	6	TPUS	CuZn-Ni	PUR
	451	10	TPUS	CuZn-Ni	PUR
	451	15	TPUS	CuZn-Ni	PUR
 	451	0.3	TPUS	CuZn-Ni	PUR
	451	0.5	TPUS	CuZn-Ni	PUR
	451	1	TPUS	CuZn-Ni	PUR
	451	2	TPUS	CuZn-Ni	PUR
	451	4	TPUS	CuZn-Ni	PUR
	451	6	TPUS	CuZn-Ni	PUR
	451	10	TPUS	CuZn-Ni	PUR
	451	15	TPUS	CuZn-Ni	PUR
	451	30	TPUS	CuZn-Ni	PUR

¹⁾ Diese Leitungen sind auch mit abgewinkelten Steckverbindern verfügbar./These cables are also available with angled connectors./Ces câbles sont également disponibles avec connecteurs coudés.

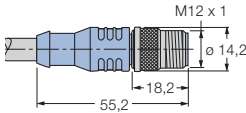
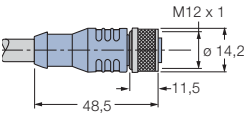
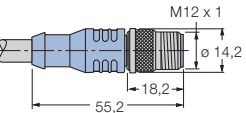
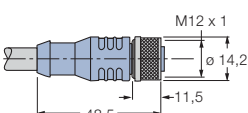
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Steckverbinder Codierung Connector coding Codage de connecteur	Schleppkettenfähig Trailing capability Utilisable sur chaînes de transport de câble	Zulassungen Approvals Homologations	Schutzart Degree of protection Degré de protection
KABEL451-30M	6915601			•	–	
KABEL451-150M	6915603			•	–	
KABEL451-500M	6915606			•	–	
RSSW451-6M	6914111	C071	B	•	–	IP67
RSSW451-10M	6914112	C071	B	•	–	IP67
RSSW451-15M	6914113	C071	B	•	–	IP67
RKSW451-6M	6914114	C072	B	•	–	IP67
RKSW451-10M	6914115	C072	B	•	–	IP67
RKSW451-15M	6914116	C072	B	•	–	IP67
RSSW-RKSW451-0,3M	6915655	C071 / C072	B	•	–	IP67 / IP67
RSSW-RKSW451-0,5M	6914117	C071 / C072	B	•	–	IP67 / IP67
RSSW-RKSW451-1M	6914118	C071 / C072	B	•	–	IP67 / IP67
RSSW-RKSW451-2M	6914119	C071 / C072	B	•	–	IP67 / IP67
RSSW-RKSW451-4M	6914120	C071 / C072	B	•	–	IP67 / IP67
RSSW-RKSW451-6M	6914121	C071 / C072	B	•	–	IP67 / IP67
RSSW-RKSW451-10M	6914122	C071 / C072	B	•	–	IP67 / IP67
RSSW-RKSW451-15M	6914123	C071 / C072	B	•	–	IP67 / IP67
RSSW-RKSW451-30M	6914124	C071 / C072	B	•	–	IP67 / IP67

Vorkonfektionierte Buskabel für PROFIBUS-DP, Typ 451
Premoulded bus cables for PROFIBUS-DP, Type 451
Câbles bus préconfectionnés pour PROFIBUS-DP, type 451


Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kabeltyp	Kabellänge	Werkstoffe/Materials/Matériaux (☞ 620)		
	Cable type	Cable length	Kabelmantel Cable jacket Gaine de protection	Überwurfmutter Coupling nut Écrou de serrage	Griffteil Grip Manchon
	Type de câble (☞ 710, 712)	Longueur de câble [m]			
	451	0.5 / 0.5	TPUS		
	451	1 / 1	TPUS		
	451	2 / 2	TPUS		
	451	0.3 / 0.3	TPUS	CuZn-Ni	PUR
	451	0.5 / 0.5	TPUS	CuZn-Ni	PUR
	451	1 / 1	TPUS	CuZn-Ni	PUR
	451	2 / 2	TPUS	CuZn-Ni	PUR
	451	0.3 / 0.3	TPUS	CuZn-Ni	PUR
	451	0.5 / 0.5	TPUS	CuZn-Ni	PUR
	451	1 / 1	TPUS	CuZn-Ni	PUR
	451	2 / 2	TPUS	CuZn-Ni	PUR
	451	0.5	TPUS		
	451	1	TPUS		
	451	2	TPUS		
	451	0.3	TPUS	CuZn-Ni	PUR
	451	0.5	TPUS	CuZn-Ni	PUR
	451	1	TPUS	CuZn-Ni	PUR
	451	2	TPUS	CuZn-Ni	PUR
	451	0.3	TPUS	CuZn-Ni	PUR
	451	0.5	TPUS	CuZn-Ni	PUR
	451	1	TPUS	CuZn-Ni	PUR
	451	2	TPUS	CuZn-Ni	PUR

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Steckverbinder Codierung Connector coding Codage de connecteur [M]	Schleppkettenfähig Trailing capability Utilisable sur chaînes de transport de câble	Zulassungen Approvals Homologations	Schutzart Degree of protection Degré de protection
D9-451-0,5M-0,5M	6915747	C064		•	–	IP20
D9-451-1M-1M	6915748	C064		•	–	IP20
D9-451-2M-2M	6915749	C064		•	–	IP20
RSSW-D9-RKSW-451-0,3M-0,3M	6914125	C064 / C071 / C072	B	•	–	IP20 / IP67
RSSW-D9-RKSW-451-0,5M-0,5M	6915741	C064 / C071 / C072	B	•	–	IP20 / IP67
RSSW-D9-RKSW-451-1M-1M	6914126	C064 / C071 / C072	B	•	–	IP20 / IP67
RSSW-D9-RKSW-451-2M-2M	6914127	C064 / C071 / C072	B	•	–	IP20 / IP67
RKSW-D9-RKSW-451-0,3M-0,3M	6604659	C064 / C072 / C072	B	•	–	IP20 / IP67
RKSW-D9-RKSW-451-0,5M-0,5M	6915792	C064 / C072 / C072	B	•	–	IP20 / IP67
RKSW-D9-RKSW-451-1M-1M	6604661	C064 / C072 / C072	B	•	–	IP20 / IP67
RKSW-D9-RKSW-451-2M-2M	6604663	C064 / C072 / C072	B	•	–	IP20 / IP67
D9T451-0,5M	6915757	C064		•	–	IP20
D9T451-1M	6915758	C064		•	–	IP20
D9T451-2M	6915759	C064		•	–	IP20
RSSW-D9T451-0,3M	6915775	C071	B	•	–	IP20 / IP67
RSSW-D9T451-0,5M	6915777	C071	B	•	–	IP20 / IP67
RSSW-D9T451-1M	6915778	C071	B	•	–	IP20 / IP67
RSSW-D9T451-2M	6915779	C071	B	•	–	IP20 / IP67
RKSW-D9T451-0,3M	6915765	C072	B	•	–	IP20 / IP67
RKSW-D9T451-0,5M	6915767	C072	B	•	–	IP20 / IP67
RKSW-D9T451-1M	6915768	C072	B	•	–	IP20 / IP67
RKSW-D9T451-2M	6915769	C072	B	•	–	IP20 / IP67

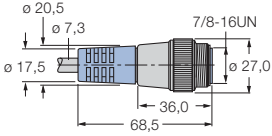
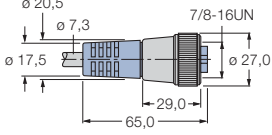
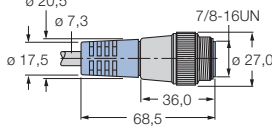
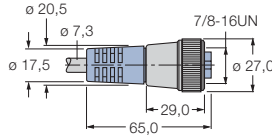
Vorkonfektionierte Buskabel für DeviceNet™, Typ 572¹⁾
Premoulded bus cables for DeviceNet™, Type 572¹⁾
Câbles bus préconfectionnés pour DeviceNet™, type 572¹⁾

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kabeltyp	Kabellänge	Werkstoffe/Materials/Matériaux (☞ 852)		
	Cable type	Cable length	Kabelmantel Cable jacket Gaine de protection	Überwurfmutter Coupling nut Écrou de serrage	Griffteil Grip Manchon
	Type de câble (☞ 710, 712)	Longueur de câble [m]			
Kabel-Meterware Bulk cable Câble en pièces	572	30	PVC		
	572	150	PVC		
	572	500	PVC		
	572	6	PVC	CuZn-Ni	PUR
	572	10	PVC	CuZn-Ni	PUR
	572	15	PVC	CuZn-Ni	PUR
	572	6	PVC	CuZn-Ni	PUR
	572	10	PVC	CuZn-Ni	PUR
	572	15	PVC	CuZn-Ni	PUR
 	572	0.3	PVC	CuZn-Ni	PUR
	572	0.5	PVC	CuZn-Ni	PUR
	572	1	PVC	CuZn-Ni	PUR
	572	2	PVC	CuZn-Ni	PUR
	572	4	PVC	CuZn-Ni	PUR
	572	6	PVC	CuZn-Ni	PUR
	572	10	PVC	CuZn-Ni	PUR
	572	15	PVC	CuZn-Ni	PUR
	572	30	PVC	CuZn-Ni	PUR

¹⁾ Diese Leitungen sind auch mit abgewinkelten Steckverbindern verfügbar./These cables are also available with angled connectors./Ces câbles sont également disponibles avec connecteurs coudés.

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion 	Steckverbinder Codierung Connector coding Codage de connecteur	Schleppkettenfähig Trailing capability Utilisable sur chaînes de transport de câble	Zulassungen Approvals Homologations	Schutzart Degree of protection Degré de protection
KABEL572-30M	6958118			-	UL, CSA	
KABEL572-150M	6958120			-	UL, CSA	
KABEL572-500M	6604900			-	UL, CSA	
RSC572-6M	6602447	C070	A	-	UL, CSA	IP67
RSC572-10M	6602640	C070	A	-	UL, CSA	IP67
RSC572-15M	6603623	C070	A	-	UL, CSA	IP67
RKC572-6M	6603624	C069	A	-	UL, CSA	IP67
RKC572-10M	6602428	C069	A	-	UL, CSA	IP67
RKC572-15M	6604933	C069	A	-	UL, CSA	IP67
RSC-RKC572-0,3M	6602473	C070 / C069	A	-	UL, CSA	IP67 / IP67
RSC-RKC572-0,5M	6602332	C070 / C069	A	-	UL, CSA	IP67 / IP67
RSC-RKC572-1M	6603628	C070 / C069	A	-	UL, CSA	IP67 / IP67
RSC-RKC572-2M	6603629	C070 / C069	A	-	UL, CSA	IP67 / IP67
RSC-RKC572-4M	6603630	C070 / C069	A	-	UL, CSA	IP67 / IP67
RSC-RKC572-6M	6603631	C070 / C069	A	-	UL, CSA	IP67 / IP67
RSC-RKC572-10M	6603632	C070 / C069	A	-	UL, CSA	IP67 / IP67
RSC-RKC572-15M	6603633	C070 / C069	A	-	UL, CSA	IP67 / IP67
RSC-RKC572-30M	6603395	C070 / C069	A	-	UL, CSA	IP67 / IP67

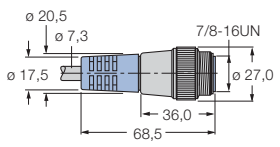
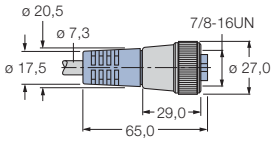
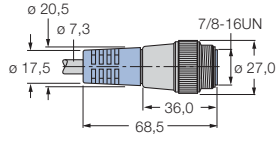
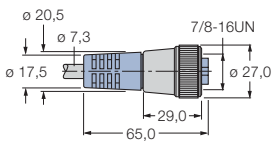
Vorkonfektionierte Buskabel für DeviceNet™, Typ 5711¹⁾
Premoulded bus cables for DeviceNet™, Type 5711¹⁾
Câbles bus préconfectionnés pour DeviceNet™, type 5711¹⁾

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kabeltyp	Kabellänge	Werkstoffe/Materials/Matériaux (DIN 852)		
	Cable type	Cable length	Kabelmantel Cable jacket Gaine de protection	Überwurfmutter Coupling nut Écrou de serrage	Griffteil Grip Manchon
	Type de câble (DIN 710, 712)	Longueur de câble [m]			
	5711	6	PVC	CuZn-Ni	PUR
	5711	10	PVC	CuZn-Ni	PUR
	5711	15	PVC	CuZn-Ni	PUR
	5711	6	PVC	CuZn-Ni	PUR
	5711	10	PVC	CuZn-Ni	PUR
	5711	15	PVC	CuZn-Ni	PUR
 	5711	0.3	PVC	CuZn-Ni	PUR
	5711	0.5	PVC	CuZn-Ni	PUR
	5711	1	PVC	CuZn-Ni	PUR
	5711	2	PVC	CuZn-Ni	PUR
	5711	4	PVC	CuZn-Ni	PUR
	5711	6	PVC	CuZn-Ni	PUR
	5711	10	PVC	CuZn-Ni	PUR
	5711	15	PVC	CuZn-Ni	PUR
	5711	30	PVC	CuZn-Ni	PUR

¹⁾ Diese Leitungen sind auch mit abgewinkelten Steckverbindern verfügbar./These cables are also available with angled connectors./Ces câbles sont également disponibles avec connecteurs coudés.

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Steckverbinder Codierung Connector coding Codage de connecteur	Schleppkettenfähig Trailing capability Utilisable sur chaînes de transport de câble	Zulassungen Approvals Homologations	Schutzart Degree of protection Degré de protection
RSM5711-6M	6603649	C054		-	UL, CSA	IP67
RSM5711-10M	6603650	C054		-	UL, CSA	IP67
RSM5711-15M	6603651	C054		-	UL, CSA	IP67
RKM5711-6M	6603652	C055		-	UL, CSA	IP67
RKM5711-10M	6603653	C055		-	UL, CSA	IP67
RKM5711-15M	6602395	C055		-	UL, CSA	IP67
RSM-RKM5711-0,3M	6602611	C054 / C055		-	UL, CSA	IP67 / IP67
RSM-RKM5711-0,5M	6602050	C054 / C055		-	UL, CSA	IP67 / IP67
RSM-RKM5711-1M	6602356	C054 / C055		-	UL, CSA	IP67 / IP67
RSM-RKM5711-2M	6602045	C054 / C055		-	UL, CSA	IP67 / IP67
RSM-RKM5711-4M	6602051	C054 / C055		-	UL, CSA	IP67 / IP67
RSM-RKM5711-6M	6602052	C054 / C055		-	UL, CSA	IP67 / IP67
RSM-RKM5711-10M	6602023	C054 / C055		-	UL, CSA	IP67 / IP67
RSM-RKM5711-15M	6602504	C054 / C055		-	UL, CSA	IP67 / IP67
RSM-RKM5711-30M	6603662	C054 / C055		-	UL, CSA	IP67 / IP67

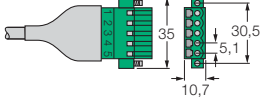
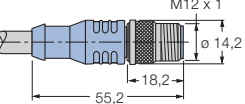
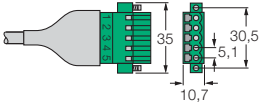
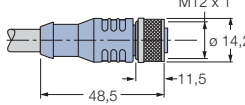
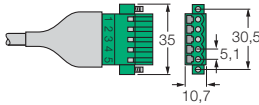
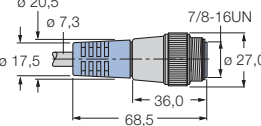
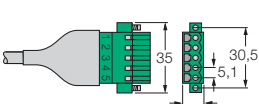
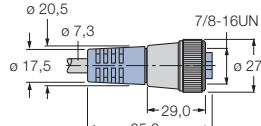
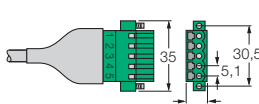
Vorkonfektionierte Buskabel für DeviceNet™, Typ 5723¹⁾
Premoulded bus cables for DeviceNet™, Type 5723¹⁾
Câbles bus préconfectionnés pour DeviceNet™, type 5723¹⁾

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kabeltyp	Kabellänge	Werkstoffe/Materials/Matériaux (ISO 852)		
	Cable type	Cable length	Kabelmantel Cable jacket Gaine de protection	Überwurfmutter Coupling nut Écrou de serrage	Griffteil Grip Manchon
	Type de câble (ISO 710, 712)	Longueur de câble [m]			
Kabel-Meterware Bulk cable Câble en pièces	5723	30	PUR		
	5723	150	PUR		
	5723	500	PUR		
	5723	6	PUR	CuZn-Ni	PUR
	5723	10	PUR	CuZn-Ni	PUR
	5723	15	PUR	CuZn-Ni	PUR
	5723	6	PUR	CuZn-Ni	PUR
	5723	10	PUR	CuZn-Ni	PUR
	5723	15	PUR	CuZn-Ni	PUR
 	5723	0.3	PUR	CuZn-Ni	PUR
	5723	0.5	PUR	CuZn-Ni	PUR
	5723	1	PUR	CuZn-Ni	PUR
	5723	2	PUR	CuZn-Ni	PUR
	5723	4	PUR	CuZn-Ni	PUR
	5723	6	PUR	CuZn-Ni	PUR
	5723	10	PUR	CuZn-Ni	PUR
	5723	15	PUR	CuZn-Ni	PUR
5723	30	PUR	CuZn-Ni	PUR	

¹⁾ Diese Leitungen sind auch mit abgewinkelten Steckverbindern verfügbar./These cables are also available with angled connectors./Ces câbles sont également disponibles avec connecteurs coudés.

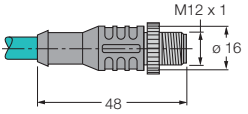
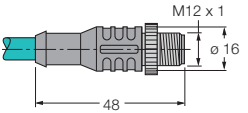
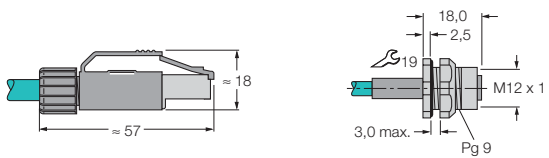

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Steckverbinder Codierung Connector coding Codage de connecteur	Schleppkettenfähig Trailing capability Utilisable sur chaînes de transport de câble	Zulassungen Approvals Homologations	Schutzart Degree of protection Degré de protection
KABEL5723-30M	6604923			•	UL, CSA	
KABEL5723-150M	6604925			•	UL, CSA	
KABEL5723-500M	6604928			•	UL, CSA	
RSM5723-6M	6605933	C054		•	UL, CSA	IP67
RSM5723-10M	6605935	C054		•	UL, CSA	IP67
RSM5723-15M	6605936	C054		•	UL, CSA	IP67
RKM5723-6M	6605189	C055		•	UL, CSA	IP67
RKM5723-10M	6605191	C055		•	UL, CSA	IP67
RKM5723-15M	6605192	C055		•	UL, CSA	IP67
RSM-RKM5723-0,3M	6605544	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-0,5M	6605545	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-1M	6605546	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-2M	6605548	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-4M	6605551	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-6M	6605553	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-10M	6605555	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-15M	6605556	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-30M	6605559	C054 / C055		•	UL, CSA	IP67 / IP67

Vorkonfektionierte Buskabel für DeviceNet™, open connector (OC)
Premoulded bus Cables for DeviceNet™, open connector (OC)
Câbles bus préconfectionnés pour DeviceNet™, open connector (OC)

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kabeltyp	Kabellänge	Werkstoffe/Materials/Matériaux (ISO 852)		
	Cable type	Cable length	Kabelmantel Cable jacket Gaine de protection	Überwurfmutter Coupling nut Écrou de serrage	Griffteil Grip Manchon
	Type de câble	Longueur de câble			
	(ISO 710, 712)	[m]			
	572	0.5	PVC		
	572	1	PVC		
	572	2	PVC		
	5711	0.5	PVC		
	5711	1	PVC		
	5711	2	PVC		
	5723	0.5	PUR		
	5723	2	PUR		
 	572	0.5	PVC	CuZn-Ni	PUR
	572	1	PVC	CuZn-Ni	PUR
	572	2	PVC	CuZn-Ni	PUR
 	572	0.5	PVC	CuZn-Ni	PUR
	572	1	PVC	CuZn-Ni	PUR
	572	2	PVC	CuZn-Ni	PUR
 	5711	0.5	PVC	CuZn-Ni	PUR
	5711	1	PVC	CuZn-Ni	PUR
	5711	2	PVC	CuZn-Ni	PUR
	5723	0.5	PUR	CuZn-Ni	PUR
	5723	1	PUR	CuZn-Ni	PUR
	5723	2	PUR	CuZn-Ni	PUR
 	5711	0.5	PVC	CuZn-Ni	PUR
	5711	1	PVC	CuZn-Ni	PUR
	5711	2	PVC	CuZn-Ni	PUR
	5723	0.5	PUR	CuZn-Ni	PUR
	5723	1	PUR	CuZn-Ni	PUR
	5723	2	PUR	CuZn-Ni	PUR

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Steckverbinder Codierung Connector coding Codage de connecteur	Schleppkettenfähig Trailing capability Utilisable sur chaînes de transport de câble	Zulassungen Approvals Homologations	Schutzart Degree of protection Degré de protection
CBC5-572-0,5M	6606064	C065		–	UL, CSA	IP20
CBC5-572-1M	6602545	C065		–	UL, CSA	IP20
CBC5-572-2M	6606065	C065		–	UL, CSA	IP20
CBC5-5711-0,5M	6606091	C065		–	UL, CSA	IP20
CBC5-5711-1M	6606092	C065		–	UL, CSA	IP20
CBC5-5711-2M	6606093	C065		–	UL, CSA	IP20
CBC5-5723-0,5M	6606097	C065		•	UL, CSA	IP20
CBC5-5723-1M	6606098	C065		•	UL, CSA	IP20
CBC5-5723-2M	6606099	C065		•	UL, CSA	IP20
RSC-CBC5-572-0,5M	6602737	C021 / C065	A	–	UL, CSA	IP67 / IP20
RSC-CBC5-572-1M	6606133	C021 / C065	A	–	UL, CSA	IP67 / IP20
RSC-CBC5-572-2M	6602340	C021 / C065	A	–	UL, CSA	IP67 / IP20
RKC-CBC5-572-0,5M	6606103	C020 / C065	A	–	UL, CSA	IP67 / IP20
RKC-CBC5-572-1M	6606104	C020 / C065	A	–	UL, CSA	IP67 / IP20
RKC-CBC5-572-2M	6606105	C020 / C065	A	–	UL, CSA	IP67 / IP20
RSM-CBC5-5711-0,5M	6606234	C054 / C065		–	UL, CSA	IP67 / IP20
RSM-CBC5-5711-1M	6606235	C054 / C065		–	UL, CSA	IP67 / IP20
RSM-CBC5-5711-2M	6606236	C054 / C065		–	UL, CSA	IP67 / IP20
RSM-CBC5-5723-0,5M	6606240	C054 / C065		•	UL, CSA	IP67 / IP20
RSM-CBC5-5723-1M	6606241	C054 / C065		•	UL, CSA	IP67 / IP20
RSM-CBC5-5723-2M	6606242	C054 / C065		•	UL, CSA	IP67 / IP20
RKM-CBC5-5711-0,5M	6606195	C055 / C065		–	UL, CSA	IP67 / IP20
RKM-CBC5-5711-1M	6606196	C055 / C065		–	UL, CSA	IP67 / IP20
RKM-CBC5-5711-2M	6606197	C055 / C065		–	UL, CSA	IP67 / IP20
RSM-CBC5-5723-0,5M	6606201	C055 / C065		•	UL, CSA	IP67 / IP20
RKM-CBC5-5723-1M	6606202	C055 / C065		•	UL, CSA	IP67 / IP20
RKM-CBC5-5723-2M	6606203	C055 / C065		•	UL, CSA	IP67 / IP20

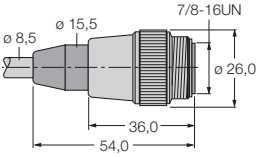
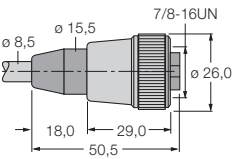
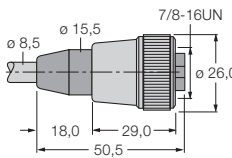
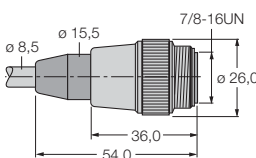
Vorkonfektionierte Buskabel für Ethernet, Typ 441/S2174¹⁾
Premoulded bus cables for Ethernet, Typ 441/S2174¹⁾
Câbles bus préconfectionnés pour Ethernet, type 441/S2174¹⁾

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kabeltyp	Kabellänge	Werkstoffe/Materials/Matériaux (ISO 852)		
	Cable type	Cable length	Kabelmantel Cable jacket Gaine de protection	Überwurfmutter Coupling nut Écrou de serrage	Griffteil Grip Manchon
	Type de câble	Longueur de câble [m]			
	(ISO 710, 712)				
Kabel-Meterware Bulk cable Câble en pièces	441/S2174	100	PUR	–	–
	441/S2174	0.5	PUR	CuZn-Ni	PUR
	441/S2174	2	PUR	CuZn-Ni	PUR
	441/S2174	6	PUR	CuZn-Ni	PUR
	441/S2174	10	PUR	CuZn-Ni	PUR
	441/S2174	20	PUR	CuZn-Ni	PUR
	441/S2174	30	PUR	CuZn-Ni	PUR
	441/S2174	0.5	PUR	CuZn-Ni	PUR
	441/S2174	1	PUR	CuZn-Ni	PUR
	441/S2174	2	PUR	CuZn-Ni	PUR
	441/S2174	6	PUR	CuZn-Ni	PUR
	441/S2174	10	PUR	CuZn-Ni	PUR
	441/S2174	15	PUR	CuZn-Ni	PUR
	441/S2174	25	PUR	CuZn-Ni	PUR
	441/S2174	30	PUR	CuZn-Ni	PUR
	441/S2174	0.5	PUR	CuZn-Ni	PUR
	441/S2174	0.5	PUR	CuZn-Ni	PUR

¹⁾ 8-polige Ethernet-Leitungen auf Anfrage/8-pole Ethernet cables on request/Câbles Ethernet à 8 pôles sur demande

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Steckverbinder Codierung Connector coding Codage de connecteur	Schleppkettenfähig Trailing capability Utilisable sur chaînes de transport de câble	Zulassungen Approvals Homologations	Schutzart Degree of protection Degré de protection
KABEL441-100M/S2174	6914212	–	–	•	UL	–
RSSD-RSSD-441-0,5M/S2174	6914217	C061 / C061	D	•	UL	IP67 / IP67
RSSD-RSSD-441-2M/S2174	6914218	C061 / C061	D	•	UL	IP67 / IP67
RSSD-RSSD-441-6M/S2174	6914219	C061 / C061	D	•	UL	IP67 / IP67
RSSD-RSSD-441-10M/S2174	6914220	C061 / C061	D	•	UL	IP67 / IP67
RSSD-RSSD-441-20M/S2174	6914210	C061 / C061	D	•	UL	IP67 / IP67
RSSD-RSSD-441-30M/S2174	6914211	C061 / C061	D	•	UL	IP67 / IP67
RSSD-RJ45-441-0,5M/S2174	6915780	C061 / C067	D	•	UL	IP67 / IP20
RSSD-RJ45-441-1M/S2174	8031217	C061 / C067	D	•	UL	IP67 / IP20
RSSD-RJ45-441-2M/S2174	6915781	C061 / C067	D	•	UL	IP67 / IP20
RSSD-RJ45-441-6M/S2174	6914222	C061 / C067	D	•	UL	IP67 / IP20
RSSD-RJ45-441-10M/S2174	6914223	C061 / C067	D	•	UL	IP67 / IP20
RSSD-RJ45-441-15M/S2174	6915663	C061 / C067	D	•	UL	IP67 / IP20
RSSD-RJ45-441-25M/S2174	6915665	C061 / C067	D	•	UL	IP67 / IP20
RSSD-RJ45-441-30M/S2174	6915666	C061 / C067	D	•	UL	IP67 / IP20
RSSD-RJ45-441-40M/S2174	6915667	C061 / C067	D	•	UL	IP67 / IP20
RJ45-FKSDD-441-0,5M/S2174	6914221	C067 / C063	D	•	UL	IP20 / IP67
RKSD-RJ45-441-0,5M/S2174	6914224	C063 / C067	D	•	UL	IP67 / IP20

Vorkonfektionierte Versorgungskabel für PROFIBUS-DP, Typ 52¹⁾
Premoulded power cables for PROFIBUS-DP, Type 52¹⁾
Câbles d'alimentation préconfectionnés pour PROFIBUS-DP, type 52¹⁾

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kabeltyp	Kabellänge	Werkstoffe/Materials/Matériaux (IEC 852)			
	Cable type	Cable length	Kabelmantel Cable jacket Gaine de protection	Überwurfmutter Coupling nut Écrou de serrage	Griffteil Grip Manchon	
	Type de câble	Longueur de câble				
	(IEC 710, 712)	[m]				
Kabel-Meterware Bulk cable Câble en pièces	52 52 52	30 150 500	PUR PUR PUR			
	52 52 52	6 10 15	PUR PUR PUR	CuZn-Ni CuZn-Ni CuZn-Ni	PUR PUR PUR	
		52 52 52	6 10 15	PUR PUR PUR	CuZn-Ni CuZn-Ni CuZn-Ni	PUR PUR PUR
		 	52 52 52 52 52 52 52 52	0.3 0.5 1 2 4 6 10 15 30	PUR PUR PUR PUR PUR PUR PUR PUR	CuZn-Ni CuZn-Ni CuZn-Ni CuZn-Ni CuZn-Ni CuZn-Ni CuZn-Ni CuZn-Ni

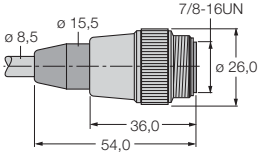
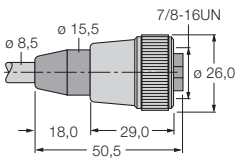
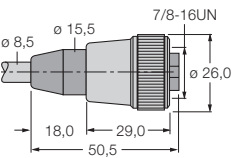
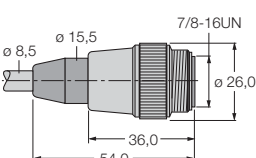
¹⁾ Diese Leitungen sind auch mit abgewinkelten Steckverbindern verfügbar./These cables are also available with angled connectors./Ces câbles sont également disponibles avec connecteurs coudés.

Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Steckverbinder Codierung Connector coding Codage de connecteur	Schleppkettenfähig Trailing capability Utilisable sur chaînes de transport de câble	Zulassungen Approvals Homologations	Schutzart Degree of protection Degré de protection
KABEL-PDP-52-30M	6604701			•	–	
KABEL-PDP-52-150M	6604703			•	–	
KABEL-PDP-52-500M	6604706			•	–	
RSM52-6M	6914142	C058		•	–	IP67
RSM52-10M	6914143	C058		•	–	IP67
RSM52-15M	6914144	C058		•	–	IP67
RKM52-6M	6914145	C056		•	–	IP67
RKM52-10M	6914146	C056		•	–	IP67
RKM52-15M	6914147	C056		•	–	IP67
RKM52-0,3-RSM52	6604743	C056 / C058		•	–	IP67 / IP67
RKM52-0,5-RSM52	6914148	C056 / C058		•	–	IP67 / IP67
RKM52-1-RSM52	6914149	C056 / C058		•	–	IP67 / IP67
RKM52-2-RSM52	6914150	C056 / C058		•	–	IP67 / IP67
RKM52-4-RSM52	6914151	C056 / C058		•	–	IP67 / IP67
RKM52-6-RSM52	6914152	C056 / C058		•	–	IP67 / IP67
RKM52-10-RSM52	6914153	C056 / C058		•	–	IP67 / IP67
RKM52-15-RSM52	6914154	C056 / C058		•	–	IP67 / IP67
RKM52-30-RSM52	6914306	C056 / C058		•	–	IP67 / IP67

Vorkonfektionierte Versorgungskabel für DeviceNet™, Typ 43¹⁾

Premoulded power cables for DeviceNet™, Type 43¹⁾

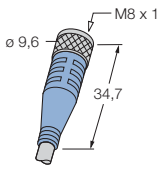
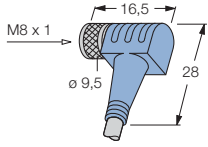
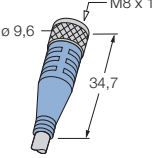
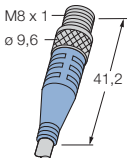
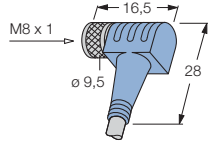
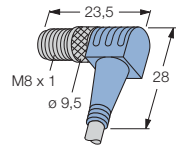
Câbles d'alimentation préconfectionnés pour DeviceNet™, type 43¹⁾

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kabeltyp	Kabellänge	Werkstoffe/Materials/Matériaux (DIN 852)		
	Cable type	Cable length	Kabelmantel Cable jacket Gaine de protection	Überwurfmutter Coupling nut Écrou de serrage	Griffteil Grip Manchon
	Type de câble (DIN 710, 712)	Longueur de câble [m]			
Kabel-Meterware Bulk cable Câble en pièces	43	30	PUR		
	43	150	PUR		
	43	500	PUR		
	43	6	PUR	CuZn-Ni	PUR
	43	10	PUR	CuZn-Ni	PUR
	43	15	PUR	CuZn-Ni	PUR
	43	6	PUR	CuZn-Ni	PUR
	43	10	PUR	CuZn-Ni	PUR
	43	15	PUR	CuZn-Ni	PUR
 	43	0.3	PUR	CuZn-Ni	PUR
	43	0.5	PUR	CuZn-Ni	PUR
	43	1	PUR	CuZn-Ni	PUR
	43	2	PUR	CuZn-Ni	PUR
	43	4	PUR	CuZn-Ni	PUR
	43	6	PUR	CuZn-Ni	PUR
	43	10	PUR	CuZn-Ni	PUR
	43	15	PUR	CuZn-Ni	PUR

¹⁾ Diese Leitungen sind auch mit abgewinkelten Steckverbindern verfügbar./These cables are also available with angled connectors./Ces câbles sont également disponibles avec connecteurs coudés.

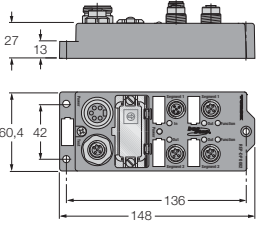
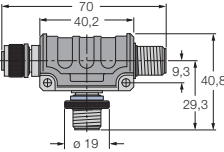
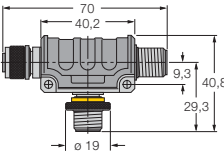
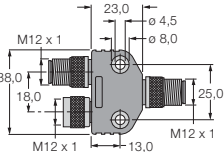
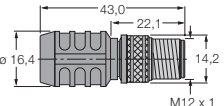
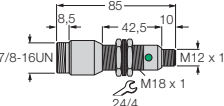
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Steckverbinder Codierung Connector coding Codage de connecteur	Schleppkettenfähig Trailing capability Utilisable sur chaînes de transport de câble	Zulassungen Approvals Homologations	Schutzart Degree of protection Degré de protection
KABEL-DN-43-30M	6915800			•	–	
KABEL-DN-43-150M	6915802			•	–	
KABEL-DN-43-500M	6915805			•	–	
RSM43-6M	6915621	C057		•	–	IP67
RSM43-10M	6915622	C057		•	–	IP67
RSM43-15M	6915623	C057		•	–	IP67
RKM43-6M	6914307	C060		•	–	IP67
RKM43-10M	6914308	C060		•	–	IP67
RKM43-15M	6914310	C060		•	–	IP67
RKM43-0,3-RSM43	6914319	C060 / C057		•	–	IP67 / IP67
RKM43-0,5-RSM43	6914311	C060 / C057		•	–	IP67 / IP67
RKM43-1-RSM43	6914312	C060 / C057		•	–	IP67 / IP67
RKM43-2-RSM43	6914313	C060 / C057		•	–	IP67 / IP67
RKM43-4-RSM43	6914314	C060 / C057		•	–	IP67 / IP67
RKM43-6-RSM43	6914315	C060 / C057		•	–	IP67 / IP67
RKM43-10-RSM43	6914316	C060 / C057		•	–	IP67 / IP67
RKM43-15-RSM43	6914317	C060 / C057		•	–	IP67 / IP67

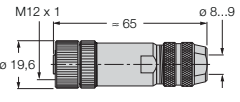
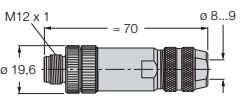
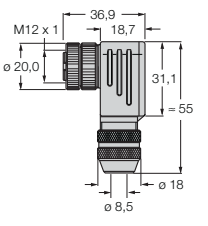
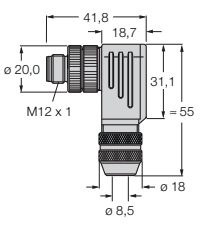
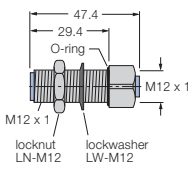
Vorkonfektionierte Versorgungskabel für *piconet*[®]
Premoulded power cables for *piconet*[®]
Câbles d'alimentation préconfectionnés pour *piconet*[®]

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Kabeltyp	Kabellänge	Werkstoffe/Materials/Matériaux (DIN 852)		
	Cable type	Cable length	Kabelmantel Cable jacket Gaine de protection	Überwurfmutter Coupling nut Écrou de serrage	Griffteil Grip Manchon
	Type de câble	Longueur de câble			
	(DIN 710, 712)	[m]			
	IPS	2	PUR	CuZn-Ni	PUR
	IPS	5	PUR	CuZn-Ni	PUR
	IPS	10	PUR	CuZn-Ni	PUR
	IPS	2	PUR	CuZn-Ni	PUR
	IPS	5	PUR	CuZn-Ni	PUR
	IPS	10	PUR	CuZn-Ni	PUR
 	IPS	0.12	PUR	CuZn-Ni	PUR
	IPS	0.15	PUR	CuZn-Ni	PUR
	IPS	0.5	PUR	CuZn-Ni	PUR
	IPS	1	PUR	CuZn-Ni	PUR
	IPS	2	PUR	CuZn-Ni	PUR
	IPS	5	PUR	CuZn-Ni	PUR
 	IPS	0.15	PUR	CuZn-Ni	PUR
	IPS	0.5	PUR	CuZn-Ni	PUR
	IPS	1	PUR	CuZn-Ni	PUR
	IPS	2	PUR	CuZn-Ni	PUR
	IPS	5	PUR	CuZn-Ni	PUR

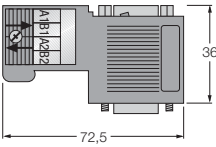
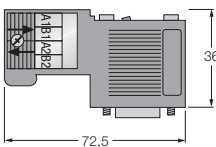
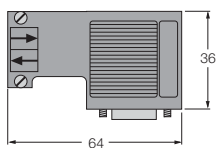
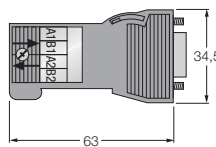
Typenbezeichnung Type Type	Ident-Nr. Ident no. No. d'ident.	Anschluss Connection Connexion (IEC 806)	Steckverbinder Codierung Connector coding Codage de connecteur	Schleppkettenfähig Trailing capability Utilisable sur chaînes de transport de câble	Zulassungen Approvals Homologations	Schutzart Degree of protection Degré de protection
IPSKP4-2/S90	6900323	C059		•	–	IP67
IPSKP4-5/S90	6900325	C059		•	–	IP67
IPSKP4-10/S90	6900321	C059		•	–	IP67
IPSWKP4-2/S90	6900331	C059		•	–	IP67
IPSWKP4-5/S90	6900333	C059		•	–	IP67
IPSWKP4-10/S90	6900329	C059		•	–	IP67
IPSKP4-0,12-SSP4/S90/S2154	8030976	C059 / C062		•	–	IP67 / IP67
IPSKP4-0,15-SSP4/S90	6900334	C059 / C062		•	–	IP67 / IP67
IPSKP4-0,5-SSP4/S90	6900320	C059 / C062		•	–	IP67 / IP67
IPSKP4-1-SSP4/S90	6900322	C059 / C062		•	–	IP67 / IP67
IPSKP4-2-SSP4/S90	6900324	C059 / C062		•	–	IP67 / IP67
IPSKP4-5-SSP4/S90	6900326	C059 / C062		•	–	IP67 / IP67
IPSWKP4-0,15-SWSP4/S90	6900327	C059 / C062		•	–	IP67 / IP67
IPSWKP4-0,5-SWSP4/S90	6900328	C059 / C062		•	–	IP67 / IP67
IPSWKP4-1-SWSP4/S90	6900330	C059 / C062		•	–	IP67 / IP67
IPSWKP4-2-SWSP4/S90	6900332	C059 / C062		•	–	IP67 / IP67
IPSWKP4-5-SWSP4/S90	6900319	C059 / C062		•	–	IP67 / IP67

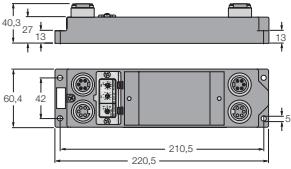
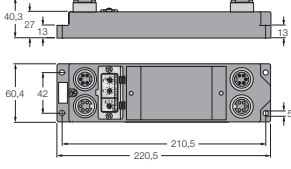
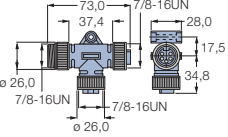
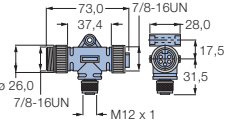
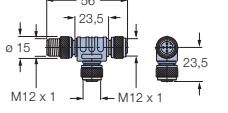
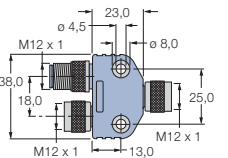
PROFIBUS-DP **Zubehör**
Accessories
Accessoires

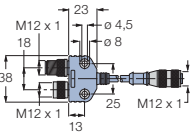
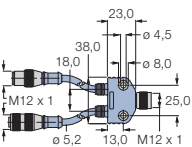
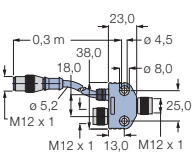
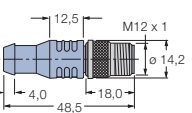
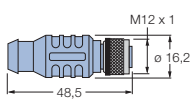
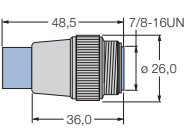
Abmessung Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection Connexion Fig. (Fxxx)	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	PROFIBUS-DP Repeater, M12 B-codiert, bis 12 MBit/s, IP67/ PROFIBUS-DP Repeater, M12 B-coded, up to 12 MBps, IP67/ Repeater PROFIBUS-DP, M12 codé B, jusque 12 MBit/s, IP67	1 x 7/8" (F052) 1 x M12 (F100) 4 x M12 (F083)	REP-DP 0002	6825354
	Bus-T-Stück, geschirmt, 12 MBit/s/ Bus tee, shielded, 12 MBps/ Raccord en T pour bus, blindé, 12 Mbits/s	2 x M12 (F100) 1 x M12 (F083)	RKSW4.5[5]-2RSSWS	6999021
	Bus-T-Stück, geschirmt, 12 MBit/s, direkte T-Stück Kopplung möglich/ Bus tee, shielded, 12 MBps, direct coupling possible/ Raccord en T pour bus, blindé, 12Mbit/s, connexion directe de plusieurs raccords en T possible	1 x M12 (F104) 1 x M12 (F083) 1 x M12 (F100)	RKSW-2RSSW45-0001	6914180
	Bus-Y-Stück, komplett geschirmt, 12 MBit/s/ Bus Y junction, fully shielded, 12 MBps/ Raccord en Y pour bus, entièrement blindé, 12 Mbit/s	2 x M12 (F100) 1 x M12 (F083)	VB2-FSW-FKW-FSW-45	6996009
	Passiver Abschlusswiderstand/ Passive terminating resistor/ Résistance de fin de ligne passive	1 x M12 (F035)	RSS4.5-PDP-TR	6601590
	Aktiver Abschlusswiderstand/ Active terminating resistor/ Résistance de fin de ligne active	1 x M12 (F035) 1 x 7/8" (F006)	PDP-TRA	6825346

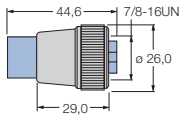
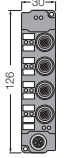
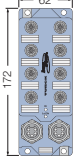
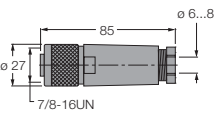
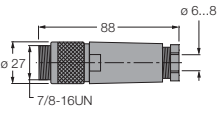
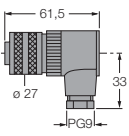
Abmessung Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection Connexion Fig. (Fxxx)	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	Konfektionierbare M12-Kupplung, gerade, Metallgehäuse, schirmbar/ Field-wireable female M12 connector, straight, metal housing, shieldable/ Connecteur femelle M12 confectionnable, droit, boîtier métallique, peut être blindé	1 x M12 (F034)	FW-M12KU5W-G-ZF-ME-SH-9	6604210
	Konfektionierbarer M12-Stecker, gerade, Metallgehäuse, schirmbar/ Field-wireable male M12 connector, straight, metal housing, shieldable/ Connecteur mâle M12 confectionnable, droit, boîtier métallique, peut être blindé	1 x M12 (F008)	FW-M12ST5W-G-ZF-ME-SH-9	6604211
	Konfektionierbare M12-Kupplung, abge- winkelt, Metallgehäuse, schirmbar/ Field-wireable female M12 connector, angled, metal housing, shieldable/ Connecteur femelle M12 confectionnable, coudé, boîtier métallique, peut être blindé	1 x M12 (F034)	BMWS8251-8,5	6904723
	Konfektionierbarer M12-Stecker, abge- winkelt, Metallgehäuse, schirmbar/ Field-wireable male M12 connector, angled, metal housing, shieldable/ Connecteur mâle M12 confectionnable, coudé, boîtier métallique, peut être blindé	1 x M12 (F008)	BMSWS8251-8,5	6904724
	M12-Durchführung, Stecker, Kupplung, Lochmaß 12,7 mm/ M12 feed-through connection male/female, through-hole 12.7 mm/ Traversée M12, connecteur mâle, connecteur femelle, diamètre de trou 12,7 mm	1 x M12 (F008) 1 x M12 (F034)	FKW-FSW45-M12	6602309

PROFIBUS-DP **Zubehör**
Accessories
Accessoires

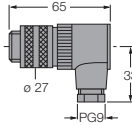
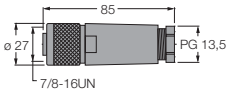
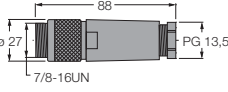
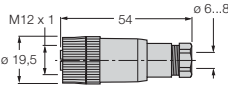
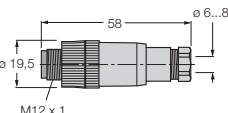
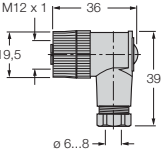
Abmessung Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection Connexion Fig. (Fxxx)	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	Abgewinkelter Stecker und Kupplung, 12 MBit/s, Bus IN und OUT, zuschaltbarer Abschlusswiderstand, Schneid-Klemm-Anschluss-technik/Right-angled male and female connector, 12 Mbps, bus IN and OUT, selectable terminating resistor, insulation displacement connection/ Connecteur mâle et femelle coudé, 12 MBit/s, Bus IN et OUT, résistance de fin de ligne activable, raccordement par technique de raccords autodénudants	1 x SUB-D (C064) 1 x SUB-D (C077)	6ES7972-0BB50-0XA0	6780101
	Abgewinkelter Stecker, 12 MBit/s, Bus IN und OUT, zuschaltbarer Abschlusswiderstand, Schneid-Klemm-Anschluss-technik/Right-angled male connector, 12 Mbps bus IN and OUT, selectable terminating resistor, insulation displacement connection/ Connecteur mâle coudé, 12 MBit/s, Bus IN et OUT, résistance de fin de ligne activable, raccordement par technique de raccords autodénudants	1 x SUB-D (C064)	6ES7972-0BA50-0XA0	6780102
	Abgewinkelter Stecker, 12 MBit/s, Bus IN und OUT, zuschaltbarer Abschlusswiderstand, Schraub-Anschluss-technik/Right-angled male connector, 12 Mbps, bus IN and OUT, selectable terminating resistor, screw connection/ Connecteur mâle coudé, 12 MBit/s, Bus IN et OUT, résistance de fin de ligne activable, raccordement par borne à vis	1 x SUB-D (C064)	6ES7972-0BA12-0XA0	6890934
	Gerader Stecker, 12 MBit/s, Bus IN und OUT, zuschaltbarer Abschlusswiderstand, Schneid-Klemm-Anschluss-technik/Right-angled male connector, 12 Mbps, bus IN and OUT, selectable terminating resistor, insulation displacement connection/ Connecteur mâle droit, 12 MBit/s, Bus IN et OUT, résistance de fin de ligne activable, raccordement par technique de raccords autodénudants	1 x SUB-D (C064)	6GK1500-0FC00	6780088

Abmessung Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection Connexion Fig. (Fxxx)	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	CAN/DeviceNet™ Repeater, 7/8", 5-polig, bis 500 KBit/s, IP67/ CAN/DeviceNet™ repeater, 7/8", 5-pole, up to 500 Kbps, IP67/ Repeater CAN/DeviceNet™, 7/8", 5 pôles, jusque 500 KBits/s, IP67	2 x 7/8" (F060) 2 x 7/8" (F065)	REP-DN	6825349
	DeviceNet™-Spanner, 7/8", 5-polig, bis 128 Byte Daten, IP67/ DeviceNet™ spanner, 7/8", 5-pole, up to 128 data bytes, IP67/ Modules spanner CAN/DeviceNet™, 7/8", 5 pôles, jusque 128 bytes de données, IP67	2 x 7/8" (F060) 2 x 7/8" (F065)	FDN-DN1	6603596
	T-Stück für Bus und Versorgung/ T piece for bus and power/ Raccord en T pour bus et alimentation	1 x 7/8" (F060) 2 x 7/8" (F065)	RSM-2RKM57	6602007
	T-Stück für Bus und Versorgung/ T piece for bus and power/ Raccord en T pour bus et alimentation	1 x 7/8" (F060) 1 x 7/8" (F065) 1 x M12 (F061)	RSM-FKM-RKM57	6602392
	T-Stück für Bus und Versorgung/ T piece for bus and power/ Raccord en T pour bus et alimentation	2 x M12 (F061) 1 x M12 (F098)	FSM-2FKM57	6622101
	Y-Stück für Bus und Versorgung Y piece for bus and power/ Raccord en Y pour bus et alimentation	2 x M12 (F061) 1 x M12 (F098)	VB2-FKM-FKM-FSM57	6602331

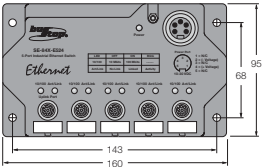
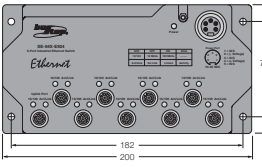
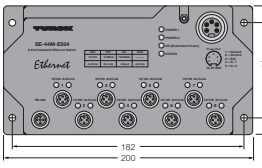
Abmessung Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection Connexion Fig. (Fxxx)	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	Y-Stück für Bus und Versorgung/ Y piece for bus and power/ Raccord en Y pour bus et alimentation	2 x M12 (F061) 1 x M12 (F098)	VB2-RKC572-1M-FKM-FSM	6996011
	Y-Stück für Bus und Versorgung/ Y piece for bus and power/ Raccord en Y pour bus et alimentation	2 x M12 (F061) 1 x M12 (F098)	VB2-FKM-RKC-RSC572-0,5M-0,5M	6602490
	Y-Stück für Bus und Versorgung/ Y piece for bus and power/ Raccord en Y pour bus et alimentation	2 x M12 (F061) 1 x M12 (F098)	VB2-FKM-FKM-RSC572-1M	6602613
	Abschlusswiderstand (Stecker)/ Terminating resistor (male)/ Résistance de fin de ligne (connecteur mâle)	1 x M12 (F038)	RSE57-TR2	6602308
	Abschlusswiderstand (Kupplung)/ Terminating resistor (female)/ Résistance de fin de ligne (connecteur femelle)	1 x M12 (F104)	RKE57-TR2	6602629
	Abschlusswiderstand (Stecker)/ Terminating resistor (male)/ Résistance de fin de ligne (connecteur mâle)	1 x 7/8" (F036)	RSM57-TR2	6602011

Abmessung Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection Connexion Fig. (Fxxx)	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	Abschlusswiderstand (Kupplung)/ Terminating resistor (female)/ Résistance de fin de ligne (connecteur femelle)	1 x 7/8" (F108)	RKM57-TR2	6602065
	4fach-Passiv-Verteiler, IP67/ 4-port passive junction, IP67/ Répartiteur passif 4 canaux, IP67	1 x M12 (F109) 4 x M12 (F061)	JBBS-57-E411	6603378
	8fach-Passiv-Verteiler, IP67, Spannungsüberwachung/ 8-port passive junction, IP67, voltage monitoring/ Répartiteur passif 8 canaux, IP67, surveillance de tension	1 x 7/8" (F060) 1 x 7/8" (F065) 8 x M12 (F061)	JBBS-57-E811-VM	6602068
	Konfektionierbare 7/8"-Kupplung, gerade, Klemmbereich: 6...8 mm/ Field-wireable female 7/8" connector, straight, clamping width: 6...8 mm/ Connecteur femelle 7/8" confectionnable, droit, largeur bride 6...8 mm	1 x 7/8" (F065)	B4151-0/9	6904717
	Konfektionierbarer 7/8"-Stecker, gerade, Klemmbereich: 6...8 mm/ Field-wireable male 7/8" connector, straight, clamping width: 6...8 mm/ Connecteur mâle 7/8" confectionnable, droit, largeur bride 6...8 mm	1 x 7/8" (F060)	BS4151-0/9	6904718
	Konfektionierbare 7/8"-Kupplung, abgewinkelt, Klemmbereich: 6...8 mm/ Field-wireable female 7/8" connector, angled, clamping width: 6...8 mm/ Connecteur femelle 7/8" confectionnable, coudé, largeur bride 6...8 mm	1 x 7/8" (F065)	B4251-0/9	6901113

Feldbustechnik/Fieldbus Technology/
Technique du bus de terrain

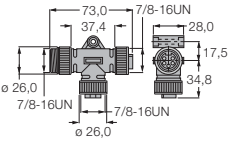
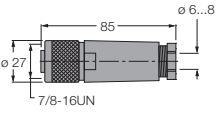
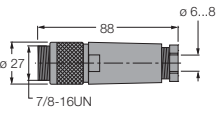
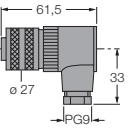
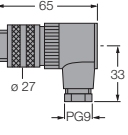
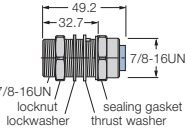
Abmessung Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection Connexion Fig. (Fxxx)	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	<p>Konfektionierbarer 7/8"-Stecker, abgewinkelt, Klemmbereich: 6...8 mm/ Field-wireable male 7/8" connector, angled, clamping width: 6...8 mm/ Connecteur mâle 7/8" confectionnable, coudé, largeur bride 6...8 mm</p>	1 x M12 (F061)	BS4251-0/9	6901112
	<p>Konfektionierbare 7/8"-Kupplung, gerade, Klemmbereich: 6...12 mm/ Field-wireable female 7/8" connector, straight, clamping width: 6...12 mm/ Connecteur femelle 7/8" confectionnable, droit, largeur bride 6...12 mm</p>	1 x 7/8" (F065)	B4151-0/13.5	6904715
	<p>Konfektionierbarer 7/8"-Stecker, gerade, Klemmbereich: 6...12 mm/ Field-wireable male 7/8" connector, straight, clamping width: 6...12 mm/ Connecteur mâle 7/8" confectionnable, droit, largeur bride 6...12 mm</p>	1 x 7/8" (F060)	BS4151-0/13.5	6904716
	<p>Konfektionierbare M12-Kupplung, gerade, Klemmbereich: 6...8 mm/ Field-wireable female M12 connector, straight, clamping width: 6...8 mm/ Connecteur femelle M12 confectionnable, droit, largeur bride 6...8 mm</p>	1 x M12 (F061)	B8151-0/9	6904604
	<p>Konfektionierbarer M12-Stecker, gerade, Klemmbereich: 6...8 mm/ Field-wireable male M12 connector, straight, clamping width: 6...8 mm/ Connecteur mâle M12 confectionnable, droit, largeur bride 6...8 mm</p>	1 x M12 (F098)	BS8151-0/9	6904613
	<p>Konfektionierbare M12-Kupplung, abgewinkelt, Klemmbereich: 6...8 mm/ Field-wireable female M12 connector, angled, clamping width: 6...8 mm/ Connecteur femelle M12 confectionnable, coudé, largeur bride 6...8 mm</p>	1 x M12 (F061)	B8251-0/9	6904603

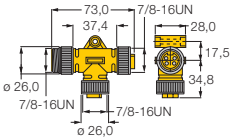
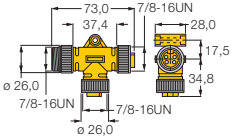
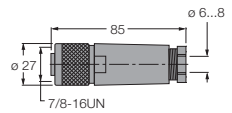
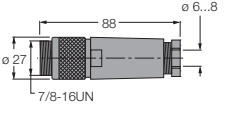
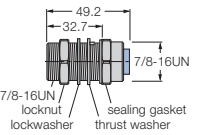
Abmessung Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection Connexion Fig. (Fxxx)	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	<p>Konfektionierbarer M12-Stecker, abgewinkelt, Klemmbereich: 6...8 mm/ Field-wireable male M12 connector, angled, clamping width: 6...8 mm/ Connecteur mâle M12 confectionnable, coudé, largeur bride 6...8 mm</p>	<p>1 x M12 (F098)</p>	<p>BS8251-0/9</p>	<p>6904615</p>
	<p>7/8"-Durchführung, Stecker, Kupplung, Lochmaß 22,5 mm/ 7/8" feed-through connection, male, female, hole diameter 22.5 mm/ Traversée 7/8", connecteur mâle, connecteur femelle, diamètre de trou 22,5 mm</p>	<p>1 x 7/8" (F060) 1 x 7/8" (F065)</p>	<p>RSF-RKF-57/22</p>	<p>6602218</p>
	<p>M12-Durchführung, Stecker, Kupplung, Lochmaß 12,7 mm/ M12 feed-through connection male, female, hole diameter 12.7 mm/ Traversée M12, connecteur mâle, connecteur femelle, diamètre de trou 12,7 mm</p>	<p>1 x M12 (F098) 1 x M12 (F061)</p>	<p>FKM-FS57-M12</p>	<p>6602223</p>

Abmessung Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection Connexion Fig. (Fxxx)	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	<p>5-Port Ethernet Switch, M12 D-kodiert, 10/100 MBit/s, IP67/ 5-port Ethernet switch, M12 D-coded, 10/100 MBps, IP67/ Switch Ethernet 5 ports, M12 codé D, 10/100 MBit/s, IP67</p>	<p>1 x 7/8" (F006) 5 x M12 (F103)</p>	SE-44X-E524	6607003
	<p>9 Port Ethernet Switch, M12 D-kodiert, 10/100 MBit/s, IP67/ 9-port Ethernet switch, M12 D-coded, 10/100 MBps, IP67/ Switch Ethernet 9 ports, M12 codé D, 10/100 MBit/s, IP67</p>	<p>1 x 7/8" (F006) 9 x M12 (F103)</p>	SE-44X-E924	6607002
	<p>Managebarer 8 Port Ethernet Switch, VLAN-Unterstützung, IGMP-Snooping, M12 D-kodiert, 10/100 MBit/s, IP67/ Manageable 8-port Ethernet switch, VLAN support, IGMP Snooping M12 D-coded, 10/100 MBps, IP67/ Switch Ethernet 8 ports supportable, support VLAN, IGMP Snooping, M12 codé D, IP67</p>	<p>1 x 7/8" (F115) 8 x M12 (F103) 1 x M12 (F116)</p>	SE-44M-E924	6607004

Abmessung Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection Connexion Fig. (Fxxx)	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	<p>1-fach M12 D-codiert/ RJ45 Gehäusedurchführung 1-port M12 D-coded/RJ45 feed-through 1 port M12 codé D Traversée de boîtier RJ45</p>	<p>1 x M12 (F103) 1 x RJ45 (F105)</p>	FKSDD-RJ45SF-44	6611523
	<p>RJ45-Gehäusedurchführung/ 4-fach M12 D-codiert RJ45 feed-through/4-port M12 D-coded Traversée de boîtier RJ45/ 4 ports M12 codé D</p>	<p>4 x M12 (F103) 4 x RJ45 (F105)</p>	BIC-44-E424	6604407
	<p>Konfektionierbarer M12-Stecker D-codiert, gerade, Metallgehäuse, schirmbar Field-wireable male M12 connector D-coded, metall housing, shieldable Connecteur mâle M12 confectionnable, codé D, droit, boîtier métallique, peut être blindé</p>	1 x M12 (C061)	FW-M12ST5D-G-SB-ME-SH-8	6604218
	<p>Konfektionierbare M12-Kupplung D-codiert, gerade, Metallgehäuse, schirmbar Field-wireable female M12 connector D-coded, metall housing, shieldable Connecteur femelle M12 confectionnable, codé D, droit, boîtier métallique, peut être blindé</p>	1 x M12 (C063)	FW-M12KU5D-G-SB-ME-SH-8	6604219

Kabeltyp 52 Zubehör
Cable type 52 Accessories
Type de câble 52 Accessoires

Abmessung Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection Connexion Fig. (Fxxx)	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	T-Stück für Versorgung/ T piece for power/ Raccord en T pour alimentation	2 x 7/8" (F037) 1 x 7/8" (F052)	RSM-2RKM50	6914950
	Konfektionierbare 7/8"-Kupplung, gerade, Klemmbereich: 6...8 mm/ Field-wireable female 7/8" connector, straight, clamping width: 6...8 mm/ Connecteur femelle 7/8" confectionnable, droit, largeur bride 6...8 mm	1 x 7/8" (F065)	B4151-0/9	6904717
	Konfektionierbarer 7/8"-Stecker, gerade, Klemmbereich: 6...8 mm/ Field-wireable male 7/8" connector, straight, clamping width: 6...8 mm/ Connecteur mâle 7/8" confectionnable, droit, largeur bride 6...8 mm	1 x 7/8" (F060)	BS4151-0/9	6904718
	Konfektionierbare 7/8"-Kupplung, abgewinkelt, Klemmbereich: 6...8 mm/ Field-wireable female 7/8" connector, angled, clamping width: 6...8 mm/ Connecteur femelle 7/8" confectionnable, coudé, largeur bride 6...8 mm	1 x 7/8" (F065)	B4251-0/9	6901113
	Konfektionierbarer 7/8"-Stecker, abgewinkelt, Klemmbereich: 6...8 mm/ Field-wireable male 7/8" connector, angled, clamping width: 6...8 mm/ Connecteur mâle 7/8" confectionnable, coudé, largeur bride 6...8 mm	1 x 7/8" (F060)	BS4251-0/9	6901112
	7/8"-Durchführung, Stecker, Kupplung, Lochmaß 22,5mm/ 7/8" M12 feed-through connection, male, female, hole diameter 22.5 mm/ Traversée 7/8", connecteur mâle, connecteur femelle, diamètre de trou 22,5 mm	1 x 7/8" (F060) 1 x 7/8" (F065)	RSF-RKF-57/22	6602218

Abmessung Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection Connexion Fig. (Fxxx)	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	T-Stück für Auxiliary-Power/ T piece for auxiliary power/ Raccord en T pour alimentation auxiliaire	1 x 7/8" (F015) 2 x 7/8" (F097)	RSM-2RKM40	6914828
	T-Stück für Auxiliary-Power (Keyway facing female)/ T piece for auxiliary power (keyway facing female)/ Raccord en T pour alimentation auxiliaire (keyway facing female)	1 x 7/8" (F015) 2 x 7/8" (F097)	RKM40-RKM40-L-RSM40	6914866
	Konfektionierbare 7/8"-Kupplung, gerade, Klemmbereich: 6...8 mm/ Field-wireable female 7/8" connector, straight, clamping width: 6...8 mm/ Connecteur femelle 7/8" confectionnable, droit, largeur bride 6...8 mm	1 x 7/8" (F097)	B4148-0/9	6914925
	Konfektionierbarer 7/8"-Stecker, gerade, Klemmbereich: 6...8 mm/ Field-wireable male 7/8" connector, straight, clamping width: 6...8 mm/ Connecteur mâle 7/8" confectionnable, droit, largeur bride 6...8 mm	1 x 7/8" (F015)	BS4148-0/9	6914522
	7/8"-Durchführung, Stecker, Kupplung, Lochmaß 22,5 mm/ 7/8" M12 feed-through connection, male, female, hole diameter 22.5 mm/ Traversée 7/8", connecteur mâle, connecteur femelle, diamètre de trou 22,5 mm	1 x 7/8" (F015) 1 x 7/8" (F108)	RSF-RKF-40/22	6915014

FOUNDATION™ fieldbus – Feldbussystem in der Prozess-Automatisierung

Neben dezentralen Peripheriesystemen haben sich auch Feldbussysteme in der Prozess-Automatisierung durchgesetzt. Als Feldbussysteme etabliert haben sich in diesem Bereich FOUNDATION™ fieldbus und PROFIBUS-PA. Die Vorteile dieser beiden Systeme sind die prozess-adaptierte Spezifikation sowie die echte Interoperabilität von Feldgeräten verschiedener Hersteller, sowohl untereinander als auch mit externen Hostsystemen.

Die beiden Feldbussysteme FOUNDATION™ fieldbus und PROFIBUS-PA erfüllen die Anforderungen der chemischen, pharmazeutischen und petrochemischen Industrie. Wesentliche Merkmale sind:

- Standardisiertes Anwendungsprofil
- Einsatz im explosionsgefährdeten Bereich
- Busspeisung und Feldbuskommunikation über geschirmte und verdrehte Zweidrahtleitungen
- Online-Geräteaustausch ohne Beeinträchtigung der Abläufe in der Anlage
- Diagnosefunktionen für Asset-Management

Umfangreiche Tests der Industrie und Interessensgemeinschaften bestätigen die uneingeschränkte Eignung beider Bussysteme für den Einsatz in Anlagen der Prozesstechnik.

Diagnostic-Power-Conditioner-System

- Segment- und Systemdiagnose
- Inbetriebnahmeunterstützung
- Langzeitdiagnose über FF-HSE
- FF-Funktionsblöcke für Diagnose-Alarme
- Diagnose über DTM und/oder DD
- Redundante Stromversorgung
- Hohe Ausgangsleistung für lange Feldbussegmente (800 mA, 30 VDC)
- Allseitige galvanische Trennung

Multibarrieren in IP66 (4-kanalig)

- Installation im Ex-Bereich (Zone 1)
- Galvanische Trennung zwischen den EEx i-Ausgängen und der EEx e-Hauptleitung sowie zwischen den EEx i-Ausgängen untereinander
- Einspeisung des Feldbusses in erhöhter Sicherheit EEx e
- Vier eigensichere Ausgänge EEx ia, 4 × 40 mA, kurzschlussfest und rückwirkungsfrei
- FISCO- und Entity-konforme Ausgänge (IEC TS 60079-27)
- Kurzschlussmeldung über LEDs (intern im Gehäuse)
- Integrierter Abschlusswiderstand (zuschaltbar)

FISCO- und FNICO-Power-Supply

- Integrierte Repeaterfunktion
- Zertifiziert nach FISCO oder FNICO
- Zuschaltbarer Abschlusswiderstand
- Zuschaltbare Spannungsversorgung für den Host

Verteilerbausteine in IP67 und IP20 (1-, 4-, 6- und 8-kanalig)

- Geräteausführungen als:
 - Ex-Verteiler (Einsatz in Zone 1 oder 2, Verteilung von EEx ia-Signalen in Zone 0)
 - Nicht-Ex-Verteiler
- Zuschaltbarer Abschlusswiderstand
- Gehäusematerial: pulverbeschichtetes Aluminium-Druckguss, Aluminium
- Anschlusstechnik: Flanschanschlüsse in Edelstahl, M12 × 1, 7/8" oder mit Kabelverschraubungen sowie Federzugklemmen

Kopfmessumformer

- Automatische Protokollumschaltung
- Ex-Zulassung (EEx ia und EEx n) DIN-Bauform B
- Lineare Widerstands-, Kompensator- und bipolare mV-Messungen

Überspannungsschutz für Feldgeräte

- Aluminium-Druckguss-Gehäuse
- Anschluss zum Potentialausgleich über M5 × 1-Bolzen am Gehäuse
- Schutzart IP20 und IP67

Steckverbinder

- Anschlussgröße: M12 × 1 oder 7/8" Bauform: gerade oder abgewinkelt
- Pinbelegung der Steckverbinder nach CENELEC-Standard EN 50044

Flanschverbindungen

- Konfektionierbar oder fertig konfektioniert
- Anschlussgröße: M12 × 1 oder 7/8"
- Lötbar und schraubbar Ausführungen
- Gehäusematerial aus Edelstahl

Feldbuskabel als Meterware und vorkonfektioniert

- Für Innen- und Außenbereich
- Für Anschlüsse in Schneidklemmtechnik, M12 × 1- oder 7/8"-Steckverbinder, PG9- oder M16/M20-Kabelverschraubung
- Einfache Montage mittels Fast-Assembly™-Technologie

Busabschlusswiderstände

- Ausführungen für eigensichere und nicht eigensichere Stromkreise
- M12 × 1 oder 7/8"
- Pinbelegung der Steckverbinder nach CENELEC-Standard EN 50044

FOUNDATION™ fieldbus – Fieldbus system in the process automation

Fieldbus systems have become prevalent in the field of process automation in addition to decentral peripheral systems. FOUNDATION™ fieldbus and PROFIBUS-PA are now the established fieldbus systems. The advantages of both systems are the process adapted specification and the real interoperability of field devices from various manufacturers and their compatibility with external host systems.

Both FOUNDATION™ fieldbus and PROFIBUS-PA fulfil the demands of the chemical, pharmaceutical and petrochemical industries.

The most important features are :

- standardized user profile
 - suited for use in explosion hazardous areas
 - bus supply and fieldbus communication via shielded and twisted pair cables
 - online device exchange without affecting system processes
 - diagnostics for Asset Management
- Comprehensive tests performed by the industry, interest groups and committees confirm the unlimited suitability of both bus systems for use in process engineering.

Diagnostic Power Conditioner System

- Segment and system diagnostics
- Commissioning support
- Longterm diagnostics via FF-HSE
- FF functions blocks for diagnostic alarms
- Diagnostics via DTM and/or DD
- Redundant power supply
- High output power for extended fieldbus segments (800 mA, 30 VDC)
- Complete galvanic isolation

Multibarriers in IP66 (4 channels)

- Installation in explosion hazardous areas (zone 1)
- Galvanic isolation between the EEx i outputs and the EEx e main cable as well as between the individual EEx i outputs
- Fieldbus power supply according to enhanced safety EEx e
- Four intrinsically safe EEx ia outputs, 4 × 40 mA, short-circuit protected and non-interacting
- FISCO and Entity conform outputs (IEC TS 60079-27)
- Short-circuit indication via LEDs (inside housing)
- Integrated terminating resistors (switch-in)



FOUNDATION™ fieldbus – Système pour bus de terrain dans l'automatisation de processus

FISCO and FNICO power supply

- Integrated repeater function
- Certified to FISCO and FNICO
- Switch-in terminating resistor
- Switch-in power supply for the host
- Output current:

Junction modules in IP67 and IP20 (1, 4, 6 and 8 channels)

- Device versions as:
 - Ex-junctions (for use in zone 1 or 2, distribution of EEx ia signals in zone 0)
 - Non Ex-junctions
- Connection of terminating resistor
- Housing material: powder-coated die-cast aluminium, aluminium
- Connection technology: flange connections in M12 x 1, 7/8" in stainless steel or with screwed cable glands as well as cage clamp terminals

Temperature transducers

- Automatic protocol conversion Ex approval (EEx ia and EEx n) DIN type B connector
- Linear resistance, compensator and bipolar mV measurements

Overvoltage protection for field devices

- Die-cast aluminium housing
- Connection to the equipotential bond via an M5 x 1 bolt on housing

Connector

- Connector size: M12 x 1 or 7/8", type: straight or angled
- Connector pin assignment in accordance with CENELEC standard EN 50044

Flange connections

- Field wireable or prefabricated
- Connector size: M12 x 1 or 7/8"
- Solderable and screw-type versions
- Stainless steel housings

Fieldbus cables by the metre or prefabricated

- For indoor and outdoor use
- For connections in insulation piercing technology, M12 x 1- or 7/8" connectors, PG9- or M16/M20 cable glands
- Simple installation using Fast-Assembly™ technology

Bus terminating resistors

- Versions for intrinsically safe and non-intrinsically safe circuits
- M12 x 1 or 7/8"
- Connector pin assignment in accordance with CENELEC standard EN 50044

En plus des systèmes de périphérie, les systèmes de bus de terrain sont également bien accueillis dans l'automatisation de process. Les systèmes de bus de terrain FOUNDATION™ fieldbus et PROFIBUS-PA se sont établis dans ce domaine. Les avantages de ces deux systèmes sont dans la spécification adaptée au process ainsi que dans la vraie interopérabilité d'appareils de terrain de plusieurs fabricants bien en relation réciproque qu'avec les systèmes hôtes externes.

Les systèmes de bus de terrain FOUNDATION™ fieldbus et PROFIBUS-PA remplissent les exigences de l'industrie chimique, pharmaceutique et pétrochimique. Les caractéristiques les plus importantes sont:

- Profil d'application standardisé
- Utilisation dans la zone Ex
- Alimentation du bus et communication du bus de terrain par câbles 2 fils blindés et torsadés
- Echange de l'appareil en ligne sans influencer le fonctionnement de l'installation
- Fonctions de diagnostic pour Asset-Management

Les tests importants effectués par l'industrie et les groupements d'intérêt confirment la qualification illimitée des deux systèmes de bus pour l'utilisation dans les installations de la technique de process.

Système Diagnostic-Power-Conditioner

- Diagnostic de segment et de système
- Aide de mise en service
- Diagnostic de longue durée par FF-HSE
- Modules de fonction FF pour alarme de diagnostic
- Diagnostic par DTM et/ou DD
- Alimentation en courant redondante
- Puissance de sortie élevée pour des segments de bus de terrain de grande longueur (800 mA, 30 VDC)
- Séparation galvanique entrée, sortie et alimentation

Multibarrières en IP66 (4 canaux)

- Installation en zone Ex (zone 1)
- Séparation galvanique entre les sorties EEx i et la ligne principale EEx e ainsi que les sorties EEx i les unes entre les autres
- Alimentation du bus de terrain en sécurité élevée EEx e
- 4 Sorties à sécurité intrinsèque EEx ia, 4 x 40 mA, protégées contre les courts-circuits et exemptes de rétroaction
- Sorties en conformité avec FISCO et Entity (IEC TS 60079-27)
- Alarme de court-circuit par LED (à l'intérieur du boîtier)
- Résistance de fin de ligne intégrée (activable)

Alimentation FISCO et FNICO

- Fonction répétiteur intégrée
- Certification suivant FISCO ou FNICO
- Résistance de fin de ligne activable
- Alimentation en tension activable pour le hôte

Répartiteurs en IP67 et IP20 (1, 4, 6 et 8 canaux)

- Versions:
 - Répartiteur Ex (utilisation en zone 1 ou 2, distribution de signaux EEx ia dans la zone 0)
 - Répartiteur non Ex
- Résistance de fin de ligne activable
- Matériau de boîtier: fonte d'aluminium
- Connectique: raccords à bride en acier inoxydable, M12 x 1, 7/8" ou par presse-étoupe pour câble ou par bornes à ressort

Convertisseur en tête de sonde

- Changement de protocole automatique homologation Ex (EEx ia et EEx n) format DIN du type B
- Mesures mV linéaires de résistance, de compensation et bipolaires

Protection contre les surtensions pour les appareils de terrain

- Boîtier en fonte d'aluminium
- Raccordement de la liaison équipotentielle par boulons M5 x 1 au boîtier
- Degrés de protection IP20 et IP67

Connecteur

- Taille connecteur: M12 x 1 ou 7/8" format: droit ou coudé
- Affectation des broches des connecteurs suivant la norme CENELEC EN 50044

Raccords à bride

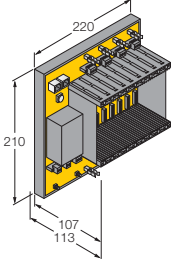
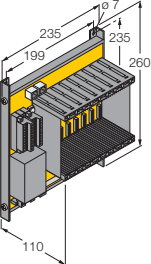
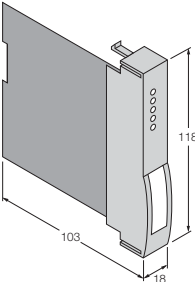
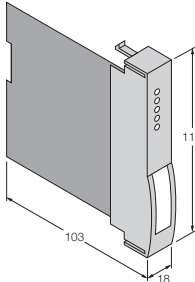
- Confectionnables ou confectionnés
- Taille connecteur: M12 x 1 ou 7/8"
- Versions à souder et à vis
- Matériau du boîtier en inox

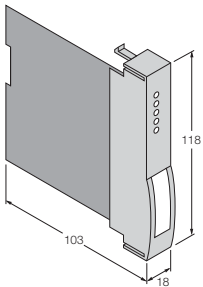
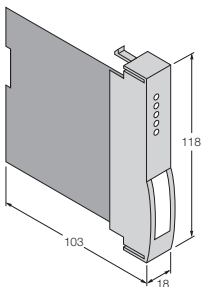
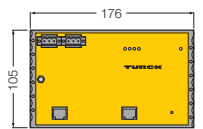
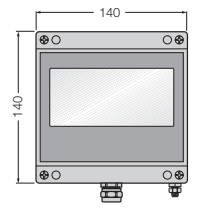
Câble de bus de terrain en pièce et préconfectionné

- Application tant intérieur qu'extérieur
- Pour connexions en technique de raccords autodénudants, connecteur M12 x 1 ou 7/8", presse-étoupe PG9 ou M16/M20
- Montage simple par technologie Fast-Assembly™

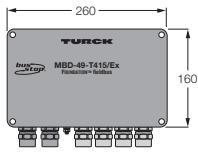
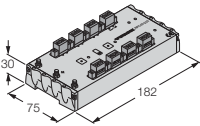
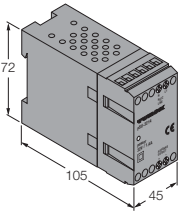
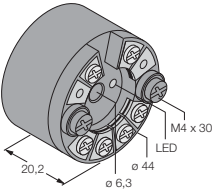
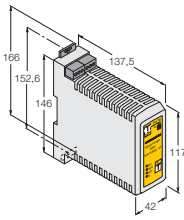
Résistances de fin de ligne bus

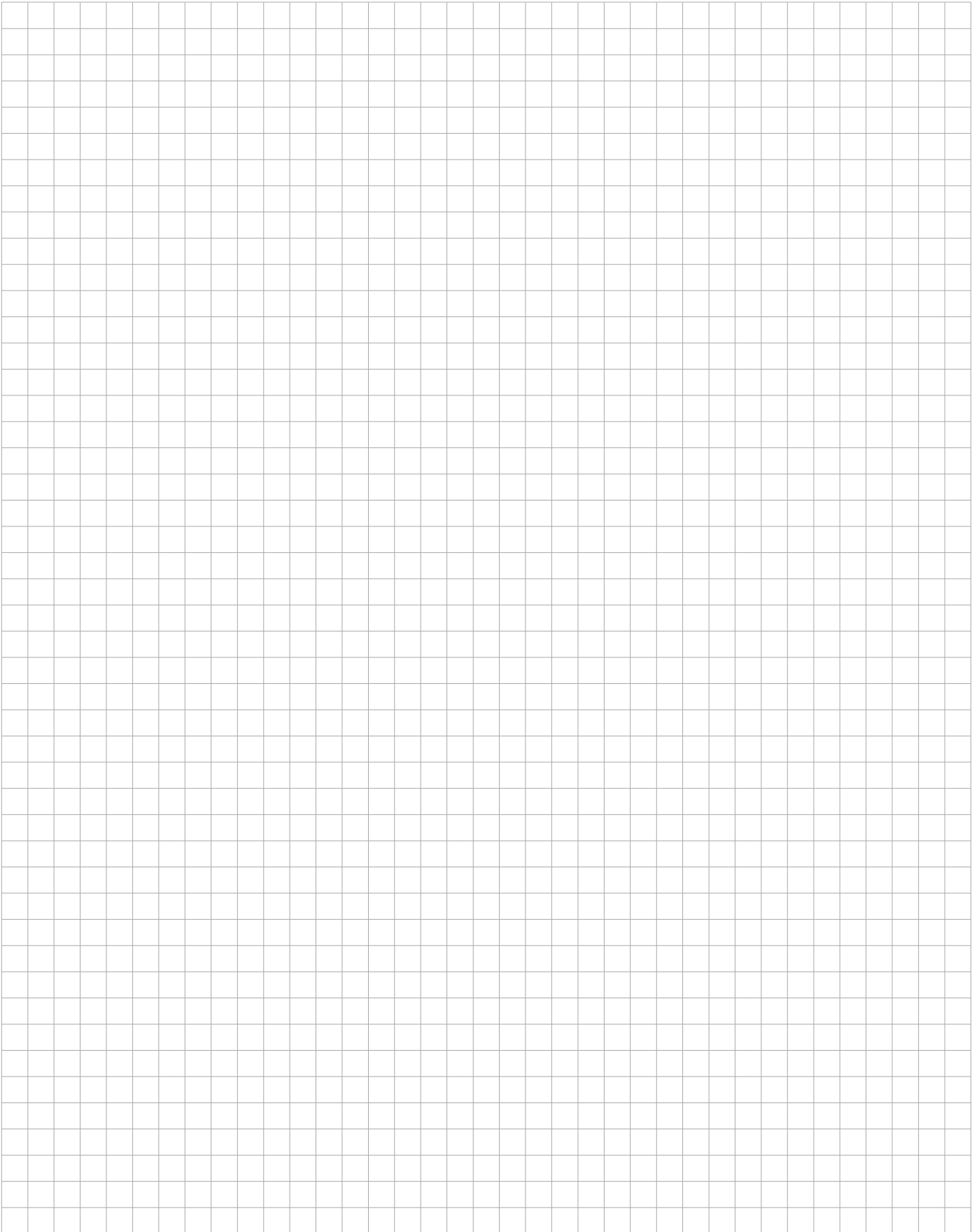
- Versions pour circuits de courant SI et non SI
- M12 x 1 ou 7/8"
- Affectation des broches des connecteurs suivant la norme CENELEC EN 50044

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Eingänge Inputs Entrées	Ausgänge Outputs Sorties	Kanäle Channels Canaux	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.	Beschreibung Description Description
	–	–	4	DPC-49-4RMB	6882024	Modulträger zur Aufnahme von bis zu 8 FOUNDATION™ fieldbus Stromversorgungsmod. für 4 H1-Segmente/ Module rack taking up to 8 FOUNDATION™ fieldbus power supply modules for 4 H1 segments/ Platine pour le logement de max. 8 modules d'alimentation en courant FOUNDATION™ fieldbus pour 4 segments H1
	–	–	4	DPC-49-4RMB/SY	6882025	wie DPC-49-4RMB, jedoch zusätzlich mit Systemsteckern und für redundante Host-Systeme mit Linienredundanz geeignet/ Like the DPC-49-4RMB, with additional connectors and suited for redundant Host systems with line redundancy/ tout comme le DPC-49-4RMB supplémentamment équipé de connecteurs de système et approprié aux systèmes hôte redondants avec redondance de ligne
	H1-Bus	H1-Bus ≥ 28 VDC < 800 mA	1	DPC-49-IPS1	6882023	FOUNDATION™ fieldbus-Stromversorgungsmodul/ FOUNDATION™ fieldbus-power supply module/ Module d'alimentation en courant FOUNDATION™ fieldbus
	–	–	–	BM-DPC	6882015	Blindmodul für nicht belegte Steckplätze auf dem DPC-Modul-Träger/ Dummy module for unused slots of the DPC module rack/ Module borgne pour les emplacements non occupés sur la platine DPC

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Eingänge Inputs Entrées	Ausgänge Outputs Sorties	Kanäle Channels Canaux	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.	Beschreibung Description Description
	-	-	-	DPC-49-ADU	6882012	Advanced-Diagnose-Modul zum Erfassen von physikalischen und Kommunikationsmesswerten der H1-Segmente für einen Modulträger/ Advanced diagnostic module to process physical and communication parameters of the H1 segments belonging to one module rack/ Module "Advanced Diagnose" pour la détection de valeurs de mesure de communication et physiques des segments H1 pour une platine
	-	-	-	DPC-49-DU	6882012	Diagnose-Modul zur redundanten Überwachung der Spannungsversorgung/ Diagnostic module for redundant monitoring of the voltage supply/ Module de diagnostic pour la surveillance redondante de l'alimentation en tension
	-	-	-	DPC-49-HSEFD/24VDC	6882014	HSE-Feldgerät, wertet die erfassten Messwerte des DPC-49-ADU aus und überträgt dies über FF-HSE, Erzeugung von FF-Alarmen/ HSE field device evaluates the measured values of the DPC-49-ADU and transmits them via FF-HSE, output of FF alarms/ L'appareil HSE évalue les valeurs de mesure détectées du DPC-49-ADU et les transmetts par le FF-HSE, la génération d'alarmes FF
	H1-Bus 9...30 VDC	-	3	FD-49-T317/Ex	6901312	Feldbusanzeige zur Abbildung von bis zu 3 Prozesswerten/ Fieldbus display for up to 3 process values/ Afficheur de bus de terrain pour la visualisation de 3 valeurs de process au maximum

Feldbusstechnik/Fieldbus Technology/
Technique du bus de terrain

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Eingänge Inputs Entrées	Ausgänge Outputs Sorties	Kanäle Channels Canaux	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.	Beschreibung Description Description
	H1-Bus 16...32 VDC	4 x 40 mA	4	MBD49-T415/Ex	6611247	Multibarriere, Feldbuseinspeisung in EEx e, 4 galv. getrennte EEx ia-Ausgänge/Multibarrier, fieldbus power supply in EEx e, 4 galv. isolated EEx ia outputs/ Multibarrière, alimentation bus de terrain en EEx e, 4 sorties EEx ia séparées galvaniquement
	2 x H1-Bus	2 x H1-Bus (500 mA)	2	RPC49-205	6603801	Power Conditioner für FOUNDATION™ fieldbus/ Power Conditioner for FOUNDATION™ fieldbus/ Power Conditioner pour FOUNDATION™ fieldbus
	1 x 110...250 VAC	1 x 32 VDC, 1,4 A	1	PSU-3214	7545024	Stromversorgung für Power Conditioner/Power supply for Power Conditioner/Alimentation-pour Power Conditioner
	H1-Bus 9...30 VDC	Thermoelements: E, J, K, L, N, T U, B, R, S, W3, W5 Pt25...Pt1000 Ni25...Ni1000 Cu10...Cu1000 linear resistance Potentiometer mV-Input	2	KMU-40Ex/1GD KMU-40Ex/3G	7506618 7506619	Kopfmessumformer für FOUNDATION™ fieldbus .../1GD: Einsatz in Zone 0 .../3G: Einsatz in Zone 2/ Temperature transmitters for FOUNDATION™ fieldbus .../1GD: suitable in Zone 0 .../3G: suitable in Zone 2/ Convertisseur en tête de sonde pour FOUNDATION™ fieldbus .../1GD: utilisé en zone 0 .../3G: utilisé en zone 2
	H1-Bus	H1-Bus (125 mA) H1-Bus (265 mA)	1	RPC49-10125/Ex RPC49-10265/Ex	6604157 6604158	Eigensichere Stromversorgung/ Intrinsically safe power supply/ Alimentation à sécurité intrinsèque



FOUNDATION™ Verteilerbausteine in IP67
fieldbus IP67 junction boxes
 Répartiteurs en IP67

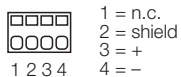
Bauform Housing style Format [mm]	Verbindungstechnik/Connection technology/Connexion		
	Bus-IN	Bus-OUT	Spur lines
(A) 	1 x M12 (F071)	1 x M12 (F073)	4 x M12 (F073)
	1 x M12 (F071)	1 x M12 (F073)	6 x M12 (F073)
(B) 	1 x M12 (F071)	1 x M12 (F073)	4 x M12 (F073)
	1 x M12 (F071)	1 x M12 (F073)	6 x M12 (F073)
(C) 	1 x 7/8" (F070)	1 x 7/8" (F072)	4 x 7/8" (F072)
	1 x 7/8" (F070)	1 x 7/8" (F072)	6 x 7/8" (F072)
(D) 	1 x 7/8" (F070)	1 x 7/8" (F072)	4 x 7/8" (F072)
	1 x 7/8" (F070)	1 x 7/8" (F072)	6 x 7/8" (F072)
(E) 	1 x M20 x 1,5 (Ø 6...12 mm) (F074)	1 x M20 x 1,5 (Ø 6...12 mm) (F074)	4 x M20 x 1,5 (Ø 6...12 mm) (F074)
	1 x M20 x 1,5 (Ø 6...12 mm) (F074)	1 x M20 x 1,5 (Ø 6...12 mm) (F074)	6 x M20 x 1,5 (Ø 6...12 mm) (F074)
(F) 	1 x M20 x 1,5 (Ø 6...12 mm) (F074)	1 x M20 x 1,5 (Ø 6...12 mm) (F074)	4 x M20 x 1,5 (Ø 6...12 mm) (F074)
	1 x M20 x 1,5 (Ø 6...12 mm) (F074)	1 x M20 x 1,5 (Ø 6...12 mm) (F074)	6 x M20 x 1,5 (Ø 6...12 mm) (F074)
(G) 	1 x 7/8" (F070)	1 x 7/8" (F072)	1 x 7/8" (F072)
	1 x M12 (F071)	1 x M12 (F073)	1 x M12 (F073)
(H) 	1 x M20 x 1,5 (Ø 6...12 mm) (F074)	1 x M20 x 1,5 (Ø 6...12 mm) (F074)	1 x M20 x 1,5 (Ø 6...12 mm) (F074)
	1 x 7/8" (F070)	1 x 7/8" (F072)	1 x 7/8" (F072)
(I) 	1 x M12 (F071)	1 x M12 (F073)	1 x M12 (F073)

Anschlussbelegung Pin configuration Schéma de raccordement	(F070)	(F072)	(F071)	(F073)
	<p>1 = - 2 = + 3 = shield 4 = n.c.</p>	<p>1 = - 2 = + 3 = shield 4 = n.c.</p>	<p>1 = - 2 = + 3 = shield 4 = n.c.</p>	<p>1 = - 2 = + 3 = shield 4 = n.c.</p>

Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.	Kanäle Channels Canaux	Maßbild Dimension drawing Schéma dimensionnel	Kurzschlusschutz pro Stichleitung Short-circuit protection per spur Protection contre les courts-circuits par „spur“	Material der Anschlüsse/Farbe Connector materials/colour Matériau des ports/couleur
JBBS-49-E413/3G	6611424	4	(A)	–	VA
JBBS-49-E613/3G	6611426	6	(B)	–	VA
JBBS-49SC-E413/3G	6611432	4	(A)	30, 35, 45, 60 mA	VA
JBBS-49SC-E613/3G	6611434	6	(B)	30, 35, 45, 60 mA	VA
JBBS49-M413/3G	6611428	4	(A)	–	VA
JBBS-49-M613/3G	6611430	6	(B)	–	VA
JBBS-49SC-M413/3G	6611436	4	(A)	30, 35, 45, 60 mA	VA
JBBS-49SC-M613/3G	6611438	6	(B)	30, 35, 45, 60 mA	VA
JBBS-49-T415/3G	6611444	4	(C)	–	PVC/BK
JBBS-49-T615/3G	6611446	6	(D)	–	PVC/BK
JBBS-49SC-T415/3G	6611440	4	(C)	30, 35, 45, 60 mA	PVC/BK
JBBS-49SC-T615/3G	6611442	6	(D)	30, 35, 45, 60 mA	PVC/BK
SPTM1-A49	6602677	1	(E)	–	VA
SPTE-A49	6603780	1	(F)	–	VA
SPTT1-A49	6602678	1	(G)	–	PVC/BK
RSV-2RKV49	6602319	1	(H)	–	PUR/YE
RSCV-2RKCV49	6603431	1	(I)	–	PUR/YE

**Anschlussbelegung
Pin configuration
Schéma de raccordement**

(F074)



Hinweis: Montage in Zone 2 möglich!
 Note: Mounting in zone 2 possible!
 Consigne: montage en zone 2 possible!

Bauform Housing style Format [mm]	Verbindungstechnik/Connection technology/Connexion		
	Bus-IN	Bus-OUT	Spur lines
	1 × M12 (F071)	1 × M12 (F073)	4 × M12 (F073)
	1 × M12 (F071)	1 × M12 (F073)	6 × M12 (F073)
	1 × M12 (F071)	1 × M12 (F073)	4 × M12 (F073)
	1 × M12 (F071)	1 × M12 (F073)	6 × M12 (F073)
	1 × 7/8" (F070)	1 × 7/8" (F072)	4 × 7/8" (F072)
	1 × 7/8" (F070)	1 × 7/8" (F072)	6 × 7/8" (F072)
	1 × 7/8" (F070)	1 × 7/8" (F072)	4 × 7/8" (F072)
	1 × 7/8" (F070)	1 × 7/8" (F072)	6 × 7/8" (F072)
	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	4 × M20 × 1,5 (Ø 6...12 mm) (F074)
	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	4 × M20 × 1,5 (Ø 6...12 mm) (F074)
	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	4 × M20 × 1,5 (Ø 6...12 mm) (F074)
	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	4 × M20 × 1,5 (Ø 6...12 mm) (F074)

Die zulässigen Werte für C_0 und L_0 entsprechen den zulässigen Werten der eigensicheren Energieversorgung unter Berücksichtigung von C_i und L_i des Verteilerbausteins./
The permissible values for C_0 and L_0 correspond to the permissible values for intrinsically-safety energy supply taking the C_i and L_i of the junction box into consideration./
Les valeurs admissibles pour C_0 et L_0 correspondent aux valeurs admissibles de l'alimentation en énergie en tenant compte du C_i et L_i du boîtier de distribution.

**FISCO-Parameter nach IEC TS 60079-27
FISCO parameters acc. to IEC TS 60079-27
Paramètres FISCO suivant IEC TS 60079-27**

$U_i = 17,5$ VDC
 $I_i = 380$ mA
 $P_i = 5,32$ W
 $C_i < 5$ nF
 L_i vernachlässigbar/negligible/négligeable
 $U_0 = 17,5$ VDC
 $I_0 = 380$ mA
 $P_0 = 5,32$ W

**Entity-Parameter
Entity parameters
Paramètres Entity**

$U_i = 24$ VDC
 $I_i = 250$ mA
 $P_i = 2,56$ W
 $C_i < 5$ nF
 L_i vernachlässigbar/negligible/négligeable
 $U_0 = 24$ VDC
 $I_0 = 250$ mA
 $P_0 = 2,56$ W

Anschlussbelegung Pin configuration Schéma de raccordement	(F070)	(F072)	(F071)	(F073)
		<p>1 = - 2 = + 3 = shield 4 = n.c.</p>	<p>1 = - 2 = + 3 = shield 4 = n.c.</p>	<p>1 = - 2 = + 3 = shield 4 = n.c.</p>

Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.	Kanäle Channels Canaux	Maßbild Dimension drawing Schéma dimensionnel	Kurzschlusschutz pro Stichleitung Short-circuit protection per spur Protection contre les courts-circuits par „spur“	Material der Anschlüsse/Farbe Connector materials/colour Matériau des ports/couleur
JBBS-49-E413/Ex	6611425	4	(A)	–	VA
JBBS-49-E613/Ex	6611427	6	(B)	–	VA
JBBS-49SC-E413/Ex	6611433	4	(A)	30, 35, 45, 60 mA	VA
JBBS-49SC-E613/Ex	6611435	6	(B)	30, 35, 45, 60 mA	VA
JBBS-49-M413/Ex	6611429	4	(A)	–	VA
JBBS-49-M613/Ex	6611431	6	(B)	–	VA
JBBS-49SC-M413/Ex	6611437	4	(A)	30, 35, 45, 60 mA	VA
JBBS-49SC-M613/Ex	6611439	6	(B)	30, 35, 45, 60 mA	VA
JBBS-49-T415B/Ex	6611445	4	(C)	–	PVC/BU
JBBS-49-T615B/Ex	6611447	6	(D)	–	PVC/BU
JBBS-49SC-T415B/Ex	6611441	4	(C)	30, 35, 45, 60 mA	PVC/BU
JBBS-49SC-T615B/Ex	6611443	6	(D)	30, 35, 45, 60 mA	PVC/BU

Anschlussbelegung Pin configuration Schéma de raccordement	(F074)
	<p>1 = n.c. 2 = shield 3 = + 4 = -</p>

Bauform Housing style Format [mm]	Verbindungstechnik/Connection technology/Connexion		
	Bus-IN	Bus-OUT	Spur lines
<p>(A)</p> <p>(B)</p> <p>(C)</p> <p>(D)</p>	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables
	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables
	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables
	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables
	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables
	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables
	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables
	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables

Hinweis: Zugelassen nach FISCO und FNICO, Montage in Zone 1 oder 2 möglich!/
Note: Approved per FISCO and FNICO, mounting in zone 1 or 2 possible!/
Consigne: Homologué par FISCO et FNICO, montage en zone 1 ou 2 possible!

Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.	Kanäle Channels Canaux	Maßbild Dimension drawing Schéma dimensionnel	Kurzschlusschutz pro Stichleitung Short-circuit protection per spur Protection contre les courts-circuits par „spur“	Material der Anschlüsse/Farbe Connector materials/colour Matériau des ports/couleur
JRBS-40-4R/Ex	6611456	4	(A)	–	PA/BK
JRBS-40-6R/Ex	6611457	6	(B)	–	PA/BK
JRBS-40-8R/Ex	6611458	8	(C)	–	PA/BK
JRBS-40-12R/Ex	6611462	12	(D)	–	PA/BK
JRBS-40SC-4R/Ex	6611459	4	(A)	30, 35, 45, 60 mA	PA/BK
JRBS-40SC-6R/Ex	6611460	6	(B)	30, 35, 45, 60 mA	PA/BK
JRBS-40SC-8R/Ex	6611461	8	(C)	30, 35, 45, 60 mA	PA/BK
JRBS-40SC-12R/Ex	6611463	12	(D)	30, 35, 45, 60 mA	PA/BK

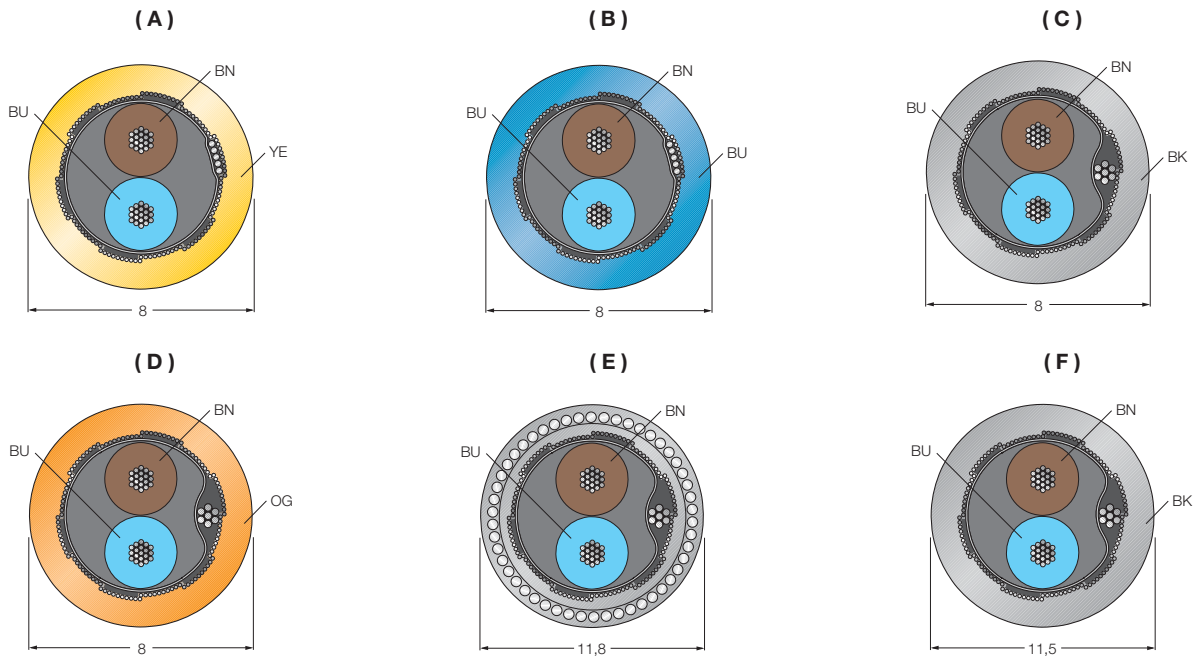


Bauform Housing style Format [mm]	Verbindungstechnik/Connection technology/Connexion		
	Bus-IN	Bus-OUT	Spur lines
<p>(A)</p> <p>(B)</p> <p>(C)</p> <p>(D)</p>	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort

Hinweis: FISCO und FNICO zugelassen, Montage in Zone 1 oder 2 möglich!/
Note: FISCO and FNICO approved, mounting in zone 1 or 2 possible!/
Consigne: Homologué par FISCO et FNICO, montage en zone 1 ou 2 possible!

Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.	Kanäle Channels Canaux	Maßbild Dimension drawing Schéma dimensionnel	Kurzschlusschutz pro Stichleitung Short-circuit protection per spur Protection contre les courts-circuits par „spur“	Material der Anschlüsse/Farbe Connector materials/colour Matériau des ports/couleur
JRBS-40-4C/Ex	6611448	4	(A)	–	PA/BK
JRBS-40-6C/Ex	6611449	6	(B)	–	PA/BK
JRBS-40-8C/Ex	6611450	8	(C)	–	PA/BK
JRBS-40-12C/Ex	6611454	12	(D)	–	PA/BK
JRBS-40SC-4C/Ex	6611451	4	(A)	30, 35, 45, 60 mA	PA/BK
JRBS-40SC-6C/Ex	6611452	6	(B)	30, 35, 45, 60 mA	PA/BK
JRBS-40SC-8C/Ex	6611453	8	(C)	30, 35, 45, 60 mA	PA/BK
JRBS-40SC-12C/Ex	6611455	12	(D)	30, 35, 45, 60 mA	PA/BK

FOUNDATION™ Kabelmeterware
fieldbus Bulk cable
Câble en pièce



Feldbus Fieldbus Bus de terrain	Kabeltyp Cable type Type de câble	Farbe Colour Couleur	Abb. Fig. Fig.	Material Kabelmantel Cable jacket material Matériau gaine de câble	UV-beständig UV resistant Résistant à l'UV	Halogenfrei Halogen-free Sans halogène	Armierung Armoured Armature
FOUNDATION™ fieldbus und/and/et PROFIBUS-PA	FBY-YE/SD	YE	(A)	PVC	•	–	–
	FBY-BU/SD	BU	(B)	PVC	•	–	–
	FBY-BK/SD	BK	(C)	PVC	•	–	–
	FBY-OG/SD	OG	(D)	PVC	•	–	–
	FBH-YE/SD	YE	(A)	SZH	•	•	–
	FBA-YE/SD	YE	(E)	PVC	•	–	•
	FBY-BK/LD	BK	(F)	PVC	•	–	–

Standard-Kabellängen für Meterware/Standard cable lengths for bulk cable/longueurs standard pour câble en pièce

FBY-.../SD				FBY-.../LD				FBH-.../SD				FBA-.../SD			
[m]				[m]				[m]				[m]			
100	250	500	1000	100	250	500	1000	100	250	500	1000	100	250	500	1000

Leiter-Querschnitt Conductor cross-section Section de conducteur [AWG/mm ²]	Nennstrom Rated current Courant nominal [A]	DC-Widerstand DC resistance Résistance DC [Ω/km]	Nom. Impedanz Nom. impedance Impédance nominale [Ω]	Schirmung Shielding Blindage	Flammwidrig gem. Flame retardent conform to Ininflammable suivant	Zulassungen Approvals Certificats
18/0,8	12	2 × 21,8	100 (31,25 kHz)	•	IEC 60332-3	UL
18/0,8	12	2 × 21,8	100 (31,25 kHz)	•	IEC 60332-3	UL
18/2,1	16	2 × 21,8	100 (31,25 kHz)	•	IEC 60332-3	UL
18/0,8	12	2 × 21,8	100 (31,25 kHz)	•	IEC 60332-3	UL
18/0,8	12	2 × 21,8	100 (31,25 kHz)	•	IEC 60332-3	UL
18/0,8	12	2 × 21,8	100 (31,25 kHz)	•	IEC 60332-3	UL
14/2,1	16	2 × 17,2	100 (31,25 kHz)	•	IEC 60332-3	UL

Feldbusstechnik/Fieldbus Technology/
Technique du bus de terrain

FOUNDATION™ fieldbus

Konfektionierte Leitungen für FOUNDATION™ fieldbus Prefabricated cables for FOUNDATION™ fieldbus Câbles confectionnés pour FOUNDATION™ fieldbus

Idealerweise ist die Länge einer Leitung genau auf die Bedingungen einer Anlage zugeschnitten. Deshalb bietet TURCK jetzt einen Just-in-Time-Lieferservice (JIT) für konfektionierte Leitungen.

Ideally, the length of the cord set is adjusted according to the requirements of the plant. For this reason TURCK now offers a Just-In-Time-delivery service (JIT) for premoulded cables.

Sous des conditions idéales la longueur des câbles à connecteur est adaptée aux exigences de l'application. C'est pourquoi TURCK offre le programme de livraison Just-In-Time (JIT) pour câbles préconfectionnés.

Das neue JIT-5D-Programm für perfekte Verbindungen:

- Just-in-Time-Lieferung innerhalb von nur 5 Tagen*
- Freie Auswahl der Leitungslänge
- Konfektionierte Feldbus- und Versorgungsleitungen
- Große Flexibilität bei der Planung und dem Aufbau Ihrer Applikation
- Hohe Kostenersparnis

The new JIT-5D-Programme for perfect connections:

- Just-In-Time delivery within 5 days only*
- Free choice of cable length
- Premoulded fieldbus and power cables
- High flexibility with respect to planning and mounting of your application
- High cost savings

Le nouveau programme JIT-5D pour des connexions parfaites:

- Livraison Just-in-Time en 5 jours seulement*
- Longueur du câble au choix
- Câbles pour bus de terrain et d'alimentation préconfectionnés
- Grande flexibilité pour la planification et la réalisation de votre installation
- Economie des frais de montage considérable

**1. Arbeitstag
Workday
Jour ouvrable**

**Bestellung bis 12 Uhr
Ordering until 12 pm
Commande avant 12.00 du matin**

**Produktion
Production
Production**

**3 Arbeitstage nach Bestellung Versand
Delivery 3 workdays after ordering
Envoi 3 jours ouvrables après la commande**

**JUST
IN
TIME!**

**Wareneingang beim Kunden
Arrival at the customer
Livraison chez le client**

**5. Arbeitstag*
Workday*
Jour ouvrable***

* gilt für Lieferungen innerhalb der Europäischen Union (EU)
valid for deliveries within the European Union (EU)
applicable pour les livraisons dans l'Union Européenne (UE)

RKCV - RSCV - FBY49x - *M / 5D

**Bauform-
geometrie/Geo-
metry/Géométrie**

R: gerade
straight
droit

W: abgewinkelt
angled
coudé

**Anschlussart/
Connection mode/
Type de connexion**

S: Stecker/male/mâle

K: Kupplung/female/
femelle

**Mechanischer Anschluss
Mechanical connection
Connexion mécanique**

C: M12

ohne/without/sans: 7/8"

S: M12 geschirmt/shielded
blindé

**Überwurfmutter/Codierung
Coupling nut/Coding
Ecrou de serrage/Codage**

M/ohne/without/sans:

Überwurfmutter:

Messing, vernickelt

coupling nut:

brass, nickel-plated

écrou de serrage:

laiton, nickelé

V: Überwurfmutter: Edelstahl

coupling nut: stainless steel

écrou de serrage: acier inox

W: Überwurfmutter: Messing,

vernickelt, Steckverbinder

invers codiert

coupling nut: brass, nickel-

plated, reverse-keyed con-

nectors

écrou de serrage: laiton,

nickelé, connecteur

codé inversement

**Just-in-time-Programme
(5 Tage/days/jours)**

Leitungslänge/cable length/longueur

1 ... 5 m (in 0,5-m-Schritten verfügbar)
(available in 0.5 m steps)

(disponible en pas de 0,5-m)

5 ... 50 m (in 1-m-Schritten verfügbar)

(available in 1 m steps)

(disponible en pas de 1-m)

Feldbussystem/Fieldbus system/Système de bus de terrain


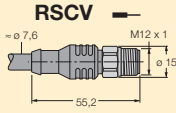
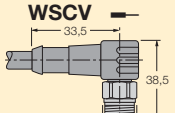
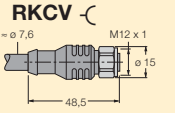
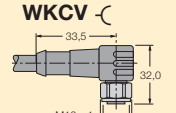



FBY49x: FOUNDATION™ fieldbus

x = Farbe: BU = blau, BK = schwarz, OG = orange, YE= gelb



x = colour: BU = blue, BK = black, OG = orange, YE= yellow

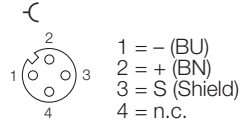
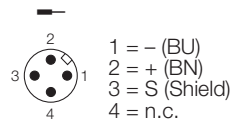
x = couleur: BU = bleu, BK = noir, OG = orange, YE= jaune


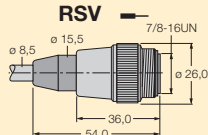
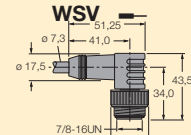
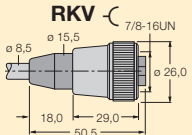
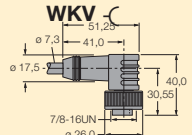



**für beidseitig konfektionierte Leitungen
for premoulded cables on both ends
pour câbles confectionnés des deux côtés**

M12 x 1		Typenbezeichnungen/Type/Type Kabeltyp/Cable type/Type de câble FBY49x, x = Farbe/colour/couleur (BU, BK, OG, YE), *M = Länge in Metern/length in metres/longueur en mètre)			
	 einseitig vorkonfektioniert/connector at one end/ préconfectionné d'un côté	 RSCV ~ø 7,6 M12 x 1 55,2 ø 15	 WSCV 33,5 36,5 M12 x 1 ø 15	 RKCVC ~ø 7,6 M12 x 1 48,5 ø 15	 WKCVC 33,5 32,0 M12 x 1 ø 15
RSCV 	RSCV-FBY49x- *M/5D	RSCV-RSCV-FBY49x- *M/5D	—	RSCV-RKCVC-FBY49x- *M/5D	—
WSCV 	WSCV-FBY49x- *M/5D	—	WSCV-WSCV-FBY49x- *M/5D	—	WSCV-WKCVC-FBY49x- *M/5D
RKCVC 	RKCVC-FBY49x- *M/5D	—	—	RKCVC-RKCVC-FBY49x- *M/5D	—



Pinbelegung/Pin configuration/Schéma de raccordement:

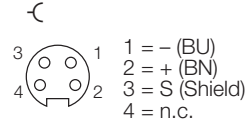
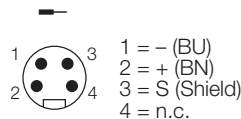
Stecker/male connector/connecteur mâle 
Kupplung/female connector/connecteur femelle 



7/8"		Typenbezeichnungen/Type/Type Kabeltyp/Cable type/Type de câble FBY49x, x = Farbe/colour/couleur (BU, BK, OG, YE), *M = Länge in Metern/length in metres/longueur en mètre)			
	 einseitig vorkonfektioniert/connector at one end/ préconfectionné d'un côté	 RSV 7/8-16UN ø 8,5 ø 15,5 ø 26,0 36,0 54,0	 WSV 51,25 ø 7,3 41,0 ø 17,5 34,0 43,5 7/8-16UN ø 26,0	 RKVC 7/8-16UN ø 8,5 ø 15,5 ø 26,0 18,0 29,0 50,5	 WKCVC 51,25 ø 7,3 41,0 ø 17,5 30,55 40,0 7/8-16UN ø 26,0
RSV 	RSV-FBY49x- *M/5D	RSV-RSV-FBY49x- *M/5D	—	RSV-RKVC-FBY49x- *M/5D	—
WSV 	WSV-FBY49x- *M/5D	—	WSV-WSV-FBY49x- *M/5D	—	WSV-WKVC-FBY49x- *M/5D
RKVC 	RKVC-FBY49x- *M/5D	—	—	RKVC-RKVC-FBY49x- *M/5D	—

Pinbelegung/Pin configuration/Schéma de raccordement:

Stecker/male connector/connecteur mâle 
Kupplung/female connector/connecteur femelle 



Steckverbinder

Überwurfmutter: Edelstahl
 Kontakte: vergoldet
 Griffkörper: PA
 Schutzart: IP67

Kabelaufbau

Außenmantel: Polyvinyl-Chlorid (PVC)
 Adernisolation: PE-Schaumstoff mit PR-Mantel
 Farbkodierung: BN, BU
 Isolierhülle: extrudierte Spezialmischung
 Schirm: eine Seite plastikbeschichtetes Aluminiumband, metallische Außenfläche mit Kontakt zu verzinnem Kupfergeflecht und verseilter Beilaufitze
 Durchmesser: ≤ 8 mm
 Leiter: 18/7 AWG (0,8 mm²), verseiltes blankes Kupfer

Connectors

Coupling nut: Stainless steel
 Contacts: Gold-plated
 Grip: PA
 Protection degree: IP67

Cable layout

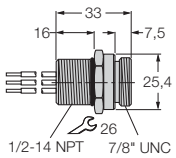
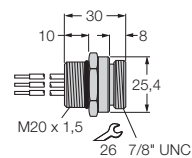
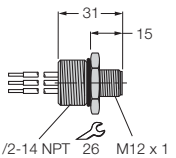
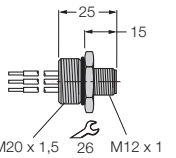
Outer jacket: Polyvinyl chloride (PVC)
 Core isolation: PE-foam with PR-jacket
 Colour code: BN, BU
 Insulation: Extruded special compound
 Shield: One side plastic coated with aluminium strip, metal exterior with contact to tin-plated copper braid and stranded drain wire
 Diameter: ≤ 8 mm
 Conductor: 18/7 AWG (0.8 mm²), stranded blank copper

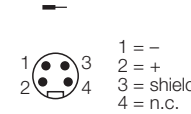
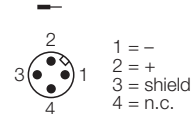
Connecteurs

Ecrou de serrage: acier inox
 Contacts: dorés
 Corps de manchon: PA
 Degré de protection: IP67

Structure de câble

Gaine extérieure: chlorure de polyvinyle (CPV)
 Isolation conducteurs: mousse synthétique PE avec gaine PR
 Codification par couleur: BN, BU
 Gaine isolante: mélange special extrudé
 Blindage: bande d'aluminium couverte d'une couche plastique d'un côté, face extérieure métallique avec contact au fil de cuivre étamé et au conducteur multibrin toronné
 Diamètre: ≤ 8 mm
 Conducteur: 18/7 AWG (0,8 mm²), cuivre nu toronné

Abmessungen Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection technology Connexion	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	<p>Konfektionierbarer 7/8"-Flansch, Stecker, Gewinde 1/2-14 NPT, Kabellänge 0,3 m/ Field wireable 7/8" flange, male connector, 1/2-14 NPT thread, cable length 0.3 m/ Bride 7/8" confectionnable, connecteur mâle, filetage 1/2-14 NPT, longueur de câble 0,3 m</p>	1 x 7/8" (F070)	RSFV49-0,3M/14,5/C1117	6603396
	<p>Konfektionierbarer 7/8"-Flansch, Stecker, Gewinde M20 x 1,5, Kabellänge 0,3 m/ Field wireable 7/8" flange, male connector, M20 x 1,5 thread, cable length 0.3 m/ Bride 7/8" confectionnable, connecteur mâle, filetage M20 x 1,5, longueur de câble 0,3 m</p>	1 x 7/8" (F070)	RSFV49-0,3M/M20/C1117	6603583
	<p>Konfektionierbarer M12 x 1-Flansch, Stecker, Gewinde 1/2-14 NPT, Kabellänge 0,3 m/ Field wireable M12 x 1 flange, male connector, 1/2-14 NPT thread, cable length 0.3 m/ Bride M12 x 1 confectionnable, connecteur mâle, filetage 1/2-14 NPT, longueur de câble 0,3 m</p>	1 x M12 (F071)	FSV49-0,3M/14,5/C1117	6602107
	<p>Konfektionierbarer M12 x 1-Flansch, Stecker, Gewinde M20 x 1,5, Kabellänge 0,3 m/ Field wireable M12 x 1 flange, male connector, M20 x 1,5 thread, cable length 0.3 m/ Bride M12 x 1 confectionnable, connecteur mâle, filetage M20 x 1,5, longueur de câble 0,3 m</p>	1 x M12 (F071)	FSV49-0,3M/M20/C1117	6603682

Anschlussbelegung Pin configuration Schéma de raccordement	(F070)	(F071)
		

Abmessungen Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection technology Connexion	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	<p>Konfektionierbarer 7/8"-Flansch, Kupplung, Gewinde 1/2-14 NPT, Kabellänge 0,3 m/ Field wireable 7/8" flange, female connector, 1/2-14 NPT thread, cable length 0.3 m/ Bride 7/8" confectionnable, connecteur femelle, filetage 1/2-14 NPT, longueur de câble 0,3 m</p>	1 x 7/8" (F072)	RKFV49-0,3M/14,5	6602475
	<p>Konfektionierbarer 7/8"-Flansch, Kupplung, Gewinde M20 x 1,5, Kabellänge 0,3 m/ Field wireable 7/8" flange, female connector, M20 x 1,5 thread, cable length 0.3 m/ Bride 7/8" confectionnable, connecteur femelle, filetage M20 x 1,5, longueur de câble 0,3 m</p>	1 x 7/8" (F072)	RKFV49-0,3M/M20	6603584
	<p>Konfektionierbarer M12 x 1-Flansch, Kupplung, Gewinde 1/2-14 NPT, Kabellänge 0,3 m/ Field wireable M12 x 1 flange, female connector, 1/2-14 NPT thread, cable length 0.3 m/ Bride M12 x 1 confectionnable, connecteur femelle, filetage 1/2-14 NPT, longueur de câble 0,3 m</p>	1 x M12 (F073)	FKV49-0,3M/14,5/C1117	6603298
	<p>Konfektionierbarer M12 x 1-Flansch, Kupplung, Gewinde M20 x 1,5, Kabellänge 0,3 m/ Field wireable M12 x 1 flange, female connector, M20 x 1,5 thread, cable length 0.3 m/ Bride M12 x 1 confectionnable, connecteur femelle, filetage M20 x 1,5, longueur de câble 0,3 m</p>	1 x M12 (F073)	FKV49-0,3M/M20/C1117	6603683

Anschlussbelegung Pin configuration Schéma de raccordement	(F072)	(F073)

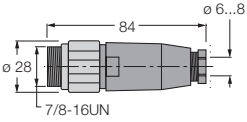
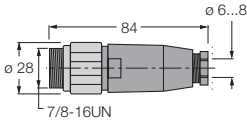
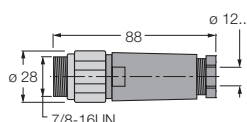
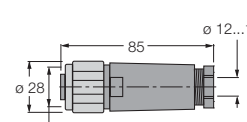
Abmessungen Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection technology Connexion	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	<p>Konfektionierbarer 7/8"-Flansch, Stecker, lötfähig/ Field wireable 7/8" flange, male connector, field solderable/ Bride 7/8" confectionnable, connecteur mâle, brasable</p>	1 x 7/8" (F070)	RSFV49	6602199
	<p>Konfektionierbarer 7/8"-Flansch, Kupplung, lötfähig/ Field wireable 7/8" flange, female connector, field solderable/ Bride 7/8" confectionnable, connecteur femelle, brasable</p>	1 x 7/8" (F072)	RKFV49	6602198
	<p>Konfektionierbarer M12 x 1-Flansch, Stecker, lötfähig/ Field wireable M12 x 1 flange, male connector, field solderable/ Bride M12 x 1 confectionnable, connecteur mâle, brasable</p>	1 x M12 (F071)	FSV49	6604378
	<p>Konfektionierbarer M12 x 1-Flansch, Kupplung, lötfähig/ Field wireable M12 x 1 flange, female connector, field solderable/ Bride M12 x 1 confectionnable, connecteur femelle, brasable</p>	1 x M12 (F073)	FKV49	6603426

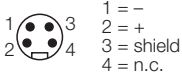
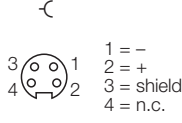
Anschlussbelegung Pin configuration Schéma de raccordement	(F070)	(F072)	(F071)	(F073)

FOUNDATION™ 7/8"-Steckverbinder
fieldbus 7/8" Connectors
 Connecteurs 7/8"

TURCK

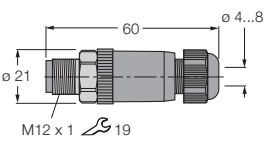
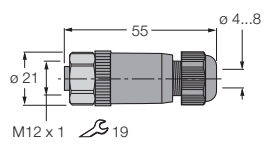
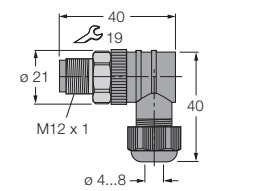
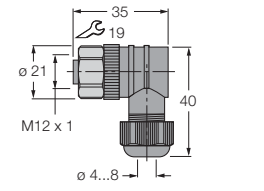
Industrial
Automation

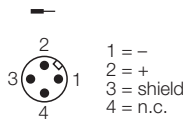
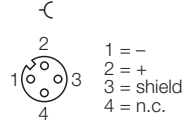
Abmessungen Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection technology Connexion	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	Feldkonfektionierb. 7/8"-Stecker, gerade, Kabeldurchlass 6...8 mm/ Field wireable 7/8" straight male connector, 6...8 mm cable entry/ Connecteur mâle 7/8" confectionnable, droit, passage de câble 6...8 mm	1 x 7/8" (F070)	BSV4140-0/9	6914542
	Feldkonfektionierb. 7/8"-Kuppl., gerade, Kabeldurchlass 6...8 mm/ Field wireable 7/8" straight female connector, 6...8 mm cable entry/ Connecteur femelle 7/8" confectionnable, droit, passage de câble 6...8 mm	1 x 7/8" (F072)	BKV4140-0/9	6914543
	Feldkonfektionierb. 7/8"-Stecker, gerade, Kabeldurchlass 12...14 mm/ Field wireable 7/8" straight male connector, 12...14 mm cable entry/ Connecteur mâle 7/8" confectionnable, droit, passage de câble 12...12 mm	1 x 7/8" (F070)	BSV4140-0/16	6914541
	Feldkonfektionierb. 7/8"-Kuppl., gerade, Kabeldurchlass 12...14 mm Field wireable 7/8" straight female connector, 12...14 mm cable entry Connecteur femelle 7/8" confectionnable, droit, passage de câble 12...12 mm	1 x 7/8" (F072)	BKV4140-0/16	6914544

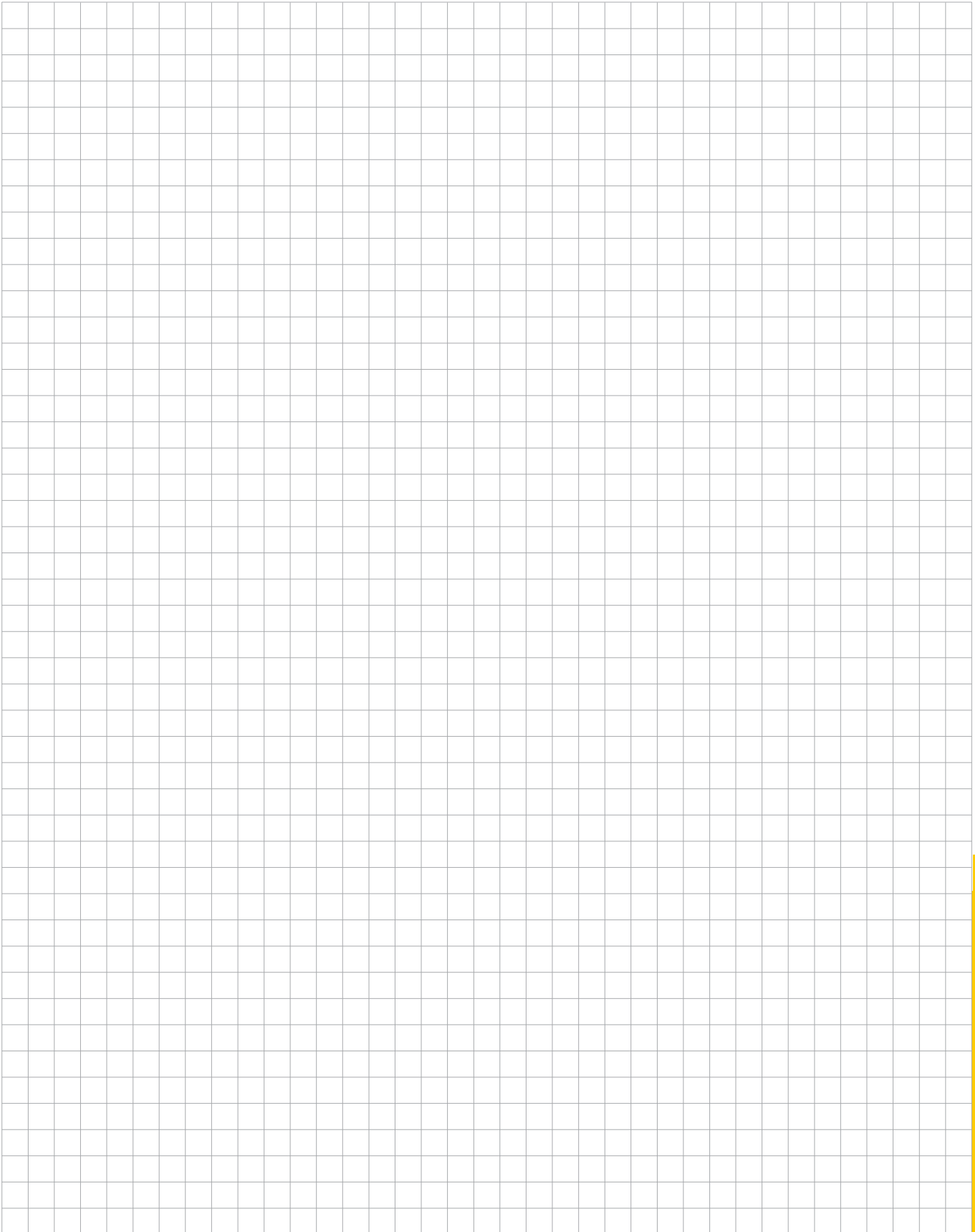
Anschlussbelegung Pin configuration Schéma de raccordement	(F070)	(F072)
	 <p>1 = - 2 = + 3 = shield 4 = n.c.</p>	 <p>1 = - 2 = + 3 = shield 4 = n.c.</p>

Feldbustechnik/Fieldbus Technology/
Technique du bus de terrain

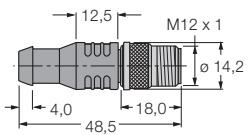
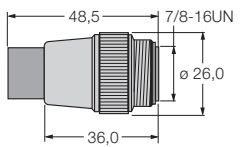
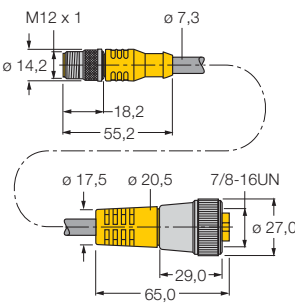
FOUNDATION™ M12 x 1-Steckverbinder
fieldbus M12 x 1 connectors
Connecteurs M12 x 1

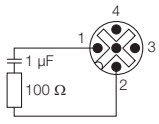
Abmessungen Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection technology Connexion	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	Feldkonfektionierbarer M12 x 1-Stecker, gerade, Kabeldurchlass 4...8 mm/ Field wireable M12 x 1 straight male connector, 4...8 mm cable entry/ Connecteur mâle M12 x 1 confectionnable, droit, passage de câble 4...8 mm	1 x M12 (F071)	BSV8140-0/9	6914537
	Feldkonfektionierbare M12 x 1-Kuppl., gerade, Kabeldurchlass 4...8 mm/ Field wireable 7/8" straight female connector, 4...8 mm cable entry/ Connecteur femelle M12 x 1 confectionnable, droit, passage de câble 4...8 mm	1 x M12 (F073)	BKV8140-0/9	6914538
	Feldkonfektionierb. M12 x 1-Stecker, abgewink., Kabeldurchlass 4...8 mm/ Field wireable M12 x 1 right angle male connec- tor, 4...8 mm cable entry/ Connecteur mâle M12 x 1 confectionnable, coudé, passage de câble 4...8 mm	1 x M12 (F071)	BSV8240-0/9	6914539
	Feldkonfektionierb. M12 x 1-Kuppl., abgewink., Kabeldurchlass 4...8 mm/ Field wireable M12 x 1 right angle female con- nect., 4...8 mm cable entry/ Connecteur femelle M12 x 1 confectionnable, coudé, passage de câble 4...8 mm	1 x M12 (F073)	BKV8240-0/9	6914540

Anschlussbelegung Pin configuration Schéma de raccordement	(F071)	(F073)
		



FOUNDATION™ Abschlusswiderstände
fieldbus Terminating resistors
 Résistances de fin de ligne

Bauform Housing style Format [mm]	Verbindungstechnik/Connection technology/Connexion		
	Bus-IN	Bus-OUT	Drop lines
<p>(A)</p> 	1 x M12 (F045)	-	-
	1 x 7/8" (F046)	-	-
	1 x 7/8" (F046)	-	-
	1 x M12 (F071)	1 x 7/8" (F072)	-
<p>(B)</p> 			
<p>(C)</p> 			

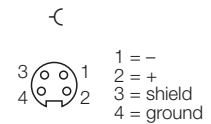
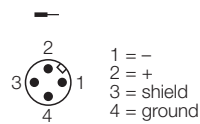
Anschlussbelegung Pin configuration Schéma de raccordement	(F045)	(F046)
		

Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.	Anzahl der Anschlüsse Number of connections Nombre de ports	Maßbild Dimension drawing Schéma dimensionnel	Kurzschlusschutz pro Stichleitung Short-circuit protection per drop Protection contre les courts-circuits par „drop“	Material der Anschlüsse/Farbe Connector materials/colour Matériau des ports/couleur
RSEV49-TR	6602096	1/-	(A)	-	VA
RSV49-TR	6602094	1/-	(B)	-	VA
RSV-49TR-Ex	6602709	1/-	(B)	-	VA
RSCV-RKV493B-0,3M	6603582	1/1	(C)	-	VA

**Anschlussbelegung
Pin configuration
Schéma de raccordement**

(F071)

(F072)



PROFIBUS-PA – Feldbussystem in der Prozess-Automatisierung

Neben dezentralen Peripheriesystemen haben sich auch Feldbussysteme in der Prozess-Automatisierung durchgesetzt. Als Feldbussysteme etabliert haben sich in diesem Bereich FOUNDATION™ fieldbus und PROFIBUS-PA. Die Vorteile dieser beiden Systeme sind die prozess-adaptierte Spezifikation sowie die echte Interoperabilität von Feldgeräten verschiedener Hersteller, sowohl untereinander als auch mit externen Hostsystemen.

Die beiden Feldbussysteme FOUNDATION™ fieldbus und PROFIBUS-PA erfüllen die Anforderungen der chemischen, pharmazeutischen und petrochemischen Industrie. Wesentliche Merkmale sind:

- Standardisiertes Anwendungsprofil
- Einsatz im explosionsgefährdeten Bereich
- Busspeisung und Feldbuskommunikation über geschirmte und verdrehte Zweidrahtleitungen
- Online-Geräteaustausch ohne Beeinträchtigung der Abläufe in der Anlage
- Diagnosefunktionen für Asset-Management

Umfangreiche Tests der Industrie und Interessensgemeinschaften bestätigen die uneingeschränkte Eignung beider Bussysteme für den Einsatz in Anlagen der Prozesstechnik.

Multibarrieren in IP66 (4-kanalig)

- Installation im Ex-Bereich (Zone 1)
- Galvanische Trennung zwischen den EEx i-Ausgängen und der EEx e-Hauptleitung sowie zwischen den EEx i-Ausgängen untereinander
- Einspeisung des Feldbusses in erhöhter Sicherheit EEx e
- Vier eigensichere Ausgänge EEx ia, 4 × 40 mA, kurzschlussfest und rückwirkungsfrei
- FISCO- und Entity-konforme Ausgänge (IEC TS 60079-27)
- Kurzschlussmeldung über LEDs (intern im Gehäuse)
- Integrierter Abschlusswiderstand (zuschaltbar)

Verteilerbausteine in IP67 und IP20 (1-, 4-, 6- und 8-kanalig)

- Geräteausführungen als:
 - Ex-Verteiler (Einsatz in Zone 1 oder 2, Verteilung von EEx ia-Signalen in Zone 0)
 - Nicht-Ex-Verteiler

- Zuschaltbarer Abschlusswiderstand
- Gehäusematerial: pulverbeschichtetes Aluminium-Druckguss, Aluminium
- Anschlusstechnik: Flanschanschlüsse in Edelstahl, M12 x 1, 7/8" oder mit Kabelverschraubungen sowie Federzugklemmen

Kopfmessumformer

- Automatische Protokollumschaltung Ex-Zulassung (EEx ia und EEx n) DIN-Bauform B
- Lineare Widerstands-, Kompensator- und bipolare mV-Messungen

Überspannungsschutz für Feldgeräte

- Aluminium-Druckguss-Gehäuse
- Anschluss zum Potentialausgleich über M5 x 1-Bolzen am Gehäuse
- Schutzart IP20 und IP67

Steckverbinder

- Anschlussgröße: M12 x 1 oder 7/8" Bauform: gerade oder abgewinkelt
- Pinbelegung der Steckverbinder nach CENELEC-Standard EN 50044

Flanschverbindungen

- Konfektionierbar oder fertig konfektioniert
- Anschlussgröße: M12 x 1 oder 7/8"
- Lötbar und schraubbar Ausführungen
- Gehäusematerial aus Edelstahl

Feldbuskabel als Meterware und vorkonfektioniert

- Für Innen- und Außenbereich
- Für Anschlüsse in Schneidklemmtechnik, M12 x 1- oder 7/8"-Steckverbinder, PG9- oder M16/M20-Kabelverschraubung
- Einfache Montage mittels Fast-Assembly™-Technologie

Busabschlusswiderstände

- Ausführungen für eigensichere und nicht eigensichere Stromkreise
- M12 x 1 oder 7/8"
- Pinbelegung der Steckverbinder nach CENELEC-Standard EN 50044

PROFIBUS-PA – Fieldbus system in the process automation

Fieldbus systems have become prevalent in the field of process automation in addition to decentral peripheral systems. PROFIBUS-PA and FOUNDATION™ fieldbus are now the established fieldbus systems.

The advantages of both of these systems are the process adapted specification and the real interoperability of field devices from various manufacturers and their compatibility with external host systems.

Both FOUNDATION™ fieldbus and PROFIBUS-PA fulfil the demands of the chemical, pharmaceutical and petrochemical industries.

The most important features are:

- standardized user profile
- suited for use in explosion hazardous areas
- bus supply and fieldbus communication via shielded and twisted pair cables
- online device exchange without affecting system processes

Multibarriers in IP66 (4 channels)

- Installation in explosion hazardous areas (zone 1)
- Galvanic isolation between the EEx i outputs and the EEx e main cable as well as between the individual EEx i outputs
- Fieldbus power supply according to enhanced safety EEx e
- Four intrinsically safe EEx ia outputs, 4 × 40 mA, short-circuit protected and non-interacting
- FISCO and Entity conform outputs (IEC TS 60079-27)
- Short-circuit indication via LEDs (inside housing)
- Integrated terminating resistors (switch-in)

Junction modules in IP67 and IP20 (1, 4, 6 and 8 channels)

- Device versions as:
 - Ex-junctions (for use in zone 1 or 2, distribution of EEx ia signals in zone 0)
 - Non Ex-junctions
- Connection of terminating resistor
- Housing material: powder-coated die-cast aluminium, aluminium



PROFIBUS-PA – Système pour bus de terrain dans l'automatisation de processus

- Connection technology: flange connections in M12 x 1, 7/8" in stainless steel or with screwed cable glands as well as cage clamp terminals

Temperature transducers

- Automatic protocol conversion Ex approval (EEx ia and EEx n) DIN type B connector
- Linear resistance, compensator and bipolar mV measurements

Overvoltage protection for field devices

- Die-cast aluminium housing
- Connection to the equipotential bond via an M5 x 1 bolt on housing

Connector

- Connector size: M12 x 1 or 7/8", type: straight or angled
- Connector pin assignment in accordance with CENELEC standard EN 50044

Flange connections

- Field wireable or prefabricated
- Connector size: M12 x 1 or 7/8"
- Solderable and screw-type versions
- Stainless steel housings

Fieldbus cables by the metre or prefabricated

- For indoor and outdoor use
- For connections in insulation piercing technology, M12 x 1- or 7/8" connectors, PG9- or M16/M20 cable glands
- Simple installation using Fast-Assembly™ technology

Bus terminating resistors

- Versions for intrinsically safe and non-intrinsically safe circuits
- M12 x 1 or 7/8"
- Connector pin assignment in accordance with CENELEC standard EN 50044

En plus des systèmes de périphérie, les systèmes de bus de terrain sont également bien accueillis dans l'automatisation de process. Les systèmes de bus de terrain FOUNDATION™ fieldbus et PROFIBUS-PA se sont établis dans ce domaine. Les avantages de ces deux systèmes sont dans la spécification adaptée au process ainsi que dans la vraie interopérabilité d'appareils de terrain de plusieurs fabricants bien en relation réciproque qu'avec les systèmes hôtes externes.

Les systèmes de bus de terrain FOUNDATION™ fieldbus et PROFIBUS-PA remplissent les exigences de l'industrie chimique, pharmaceutique et pétrochimique. Les caractéristiques les plus importantes sont:

- Profil d'application standardisé
- Utilisation dans la zone Ex
- Alimentation du bus et communication du bus de terrain par câbles 2 fils blindés et torsadés
- Echange de l'appareil en ligne sans influencer le fonctionnement de l'installation
- Fonctions de diagnostic pour Asset-Management

Les tests importants effectués par l'industrie et les groupements d'intérêt confirment la qualification illimitée des deux systèmes de bus pour l'utilisation dans les installations de la technique de process.

Multibarrières en IP66 (4 canaux)

- Installation en zone Ex (zone 1)
- Séparation galvanique entre les sorties EEx i et la ligne principale EEx e ainsi que les sorties EEx i les unes entre les autres
- Alimentation du bus de terrain en sécurité élevée EEx e
- 4 Sorties à sécurité intrinsèque EEx ia, 4 x 40 mA, protégées contre les courts-circuits et exemptes de rétroaction
- Sorties en conformité avec FISCO et Entity (IEC TS 60079-27)
- Alarme de court-circuit par LED (à l'intérieur du boîtier)
- Résistance de fin de ligne intégrée (activable)

Répartiteurs en IP67 et IP20 (1, 4, 6 et 8 canaux)

- Versions:
 - Répartiteur Ex (utilisation en zone 1 ou 2, distribution de signaux EEx ia dans la zone 0)
 - Répartiteur non Ex
- Résistance de fin de ligne activable
- Matériau de boîtier: fonte d'aluminium
- Connectique: raccords à bride en acier inoxydable, M12 x 1, 7/8" ou par presse-étoupe pour câble ou par bornes à ressort

Convertisseur en tête de sonde

- Changement de protocole automatique homologation Ex (EEx ia et EEx n) format DIN du type B
- Mesures mV linéaires de résistance, de compensation et bipolaires

Protection contre les surtensions pour les appareils de terrain

- Boîtier en fonte d'aluminium
- Raccordement de la liaison équipotentielle par boulons M5 x 1 au boîtier
- Degrés de protection IP20 et IP67

Connecteur

- Taille connecteur: M12 x 1 ou 7/8" format: droit ou coudé
- Affectation des broches des connecteurs suivant la norme CENELEC EN 50044

Raccords à bride

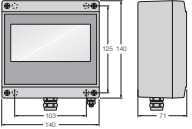
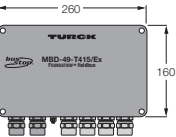
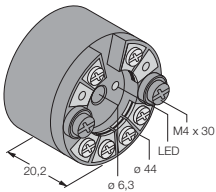
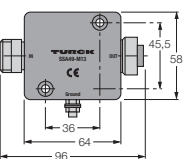
- Confectionnables ou confectionnés
- Taille connecteur: M12 x 1 ou 7/8"
- Versions à souder et à vis
- Matériau du boîtier en inox

Câble de bus de terrain en pièce et préconfectionné

- Application tant intérieur qu'extérieur
- Pour connexions en technique de raccords autodénudants, connecteur M12 x 1 ou 7/8", presse-étoupe PG9 ou M16/M20
- Montage simple par technologie Fast-Assembly™

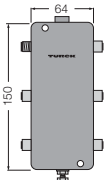
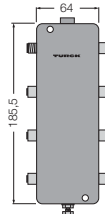
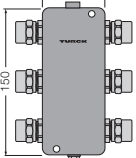
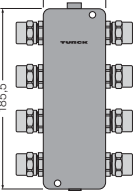
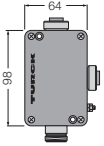
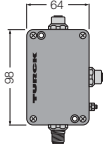
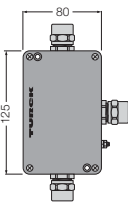
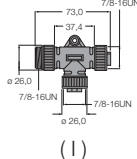
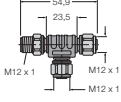
Résistances de fin de ligne bus

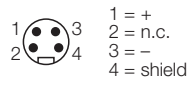
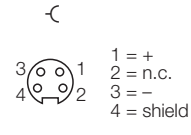
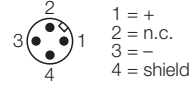
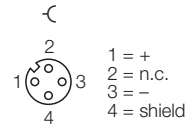
- Versions pour circuits de courant SI et non SI
- M12 x 1 ou 7/8"
- Affectation des broches des connecteurs suivant la norme CENELEC EN 50044

Abmessungen/Bauform Dimensions/Housing style Dimensions/Format [mm]	Eingänge Inputs Entrées	Ausgänge Outputs Sorties	Kanäle Channels Canaux	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident	Beschreibung Description Description
	H1-Bus 9...30 VDC	–	3	FD-48-T317/Ex	6901315	Feldbusanzeige zur Abbildung von bis zu 3 Prozesswerten/ Fieldbus display for up to 3 process values/ Afficheur de bus de terrain pour la visualisation de 3 valeurs de process au maximum
	H1-Bus 16...32 VDC	4 x 40 mA	4	MBD48-T415/Ex	6611270	Multibarriere, Feldbuseinspeisung in EEx e, 4 galv. getrennte EEx ia-Ausgänge/Multibarrier, fieldbus-power supply in EEx e, 4 galv. isolated EEx ia outputs/ Multibarrière, alimentation bus de terrain en EEx e, 4 sorties EEx ia séparées galvaniquement
	H1-Bus 9...30 VDC	Thermoelements: E, J, K, L, N, T U, B, R, S, W3, W5 Pt25...Pt1000 Ni25...Ni1000 Cu10...Cu1000 linear resistance Potentiometer mV-Input	2	KMU-40Ex/1GD KMU-40Ex/3G	7506618 7506619	Kopfmessumformer für PROFIBUS-PA .../1GD: Einsatz in Zone 0 .../3G: Einsatz in Zone 1/ Temperature transmitters for PROFIBUS-PA .../1GD: suitable in Zone 0 .../3G: suitable in Zone 1/ Convertisseur en tête de sonde pour PROFIBUS-PA .../1GD: utilisé en zone 0 .../3G: utilisé en zone 1
	Bus-IN	Bus-OUT	1	SSA48-M13 SSA48-E13	6884095 6884096	Überspannungsschutz Anschlussart: ...M: 7/8" ...E: M12/ Surge suppressor, Connection type: ...M: 7/8" ...E: M12/ Protecteur de surtensions, type de connexion: ...M: 7/8" ...E: M12



PROFIBUS-PA Verteilerbausteine in IP67
IP67 junction boxes
Répartiteurs en IP67

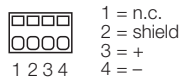
Bauform Housing style Format [mm]	Verbindungstechnik/Connection technology/Connexion		
	Bus-IN	Bus-OUT	Drop lines
(A) 	1 × M12 (F068)	1 × M12 (F069)	4 × M12 (F069)
	1 × M12 (F068)	1 × M12 (F069)	6 × M12 (F069)
(B) 	1 × M12 (F068)	1 × M12 (F069)	4 × M12 (F069)
	1 × M12 (F068)	1 × M12 (F069)	6 × M12 (F069)
(C) 	1 × 7/8" (F066)	1 × 7/8" (F067)	4 × 7/8" (F067)
	1 × 7/8" (F066)	1 × 7/8" (F067)	6 × 7/8" (F067)
(D) 	1 × 7/8" (F066)	1 × 7/8" (F067)	4 × 7/8" (F067)
	1 × 7/8" (F066)	1 × 7/8" (F067)	6 × 7/8" (F067)
(E) 	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	4 × M20 × 1,5 (Ø 6...12 mm) (F074)
	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	6 × M20 × 1,5 (Ø 6...12 mm) (F074)
(F) 	1 × 7/8" (F066)	1 × 7/8" (F067)	1 × 7/8" (F067)
	1 × M12 (F068)	1 × M12 (F069)	1 × M12 (F069)
(G) 	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	1 × M20 × 1,5 (Ø 6...12 mm) (F074)
	1 × 7/8" (F066)	1 × 7/8" (F067)	1 × 7/8" (F067)
(H) 	1 × 7/8" (F066)	1 × 7/8" (F067)	1 × 7/8" (F067)
	1 × M12 (F068)	1 × M12 (F069)	1 × M12 (F069)
(I) 	1 × 7/8" (F066)	1 × 7/8" (F067)	1 × 7/8" (F067)
	1 × M12 (F068)	1 × M12 (F069)	1 × M12 (F069)

Anschlussbelegung Pin configuration Schéma de raccordement	(F066)	(F067)	(F068)	(F069)
				

Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.	Kanäle Channels Canaux	Maßbild Dimension drawing Schéma dimensionnel	Kurzschlusschutz pro Stickleitung Short-circuit protection per drop Protection contre les courts-circuits par „drop“	Material der Anschlüsse/Farbe Connector materials/colour Matériau des ports/couleur
JBBS-48-E413/3G	6611400	4	(A)	-	VA
JBBS-48-E613/3G	6611402	6	(B)	-	VA
JBBS-48SC-E413/3G	6611408	4	(A)	30, 35, 45, 60 mA	VA
JBBS-48SC-E613/3G	6611410	6	(B)	30, 35, 45, 60 mA	VA
JBBS48-M413/3G	6602363	4	(A)	-	VA
JBBS-48-M613/3G	6602554	6	(B)	-	VA
JBBS-48SC-M413/3G	6611412	4	(A)	30, 35, 45, 60 mA	VA
JBBS-48SC-M613/3G	6611414	6	(B)	30, 35, 45, 60 mA	VA
JBBS-48-T415/3G	6611420	4	(C)	-	PVC/BK
JBBS-48-T615/3G	6611422	6	(D)	-	PVC/BK
JBBS-48SC-T415/3G	6611416	4	(C)	30, 35, 45, 60 mA	PVC/BK
JBBS-48SC-T615/3G	6611418	6	(D)	30, 35, 45, 60 mA	PVC/BK
SPTM1-A48	6602414	1	(E)	-	VA
SPTE-A48	6611028	1	(F)	-	VA
SPTT1-A48	6602415	1	(G)	-	PVC/BK
RSV-2RKV48	6602360	1	(H)	-	PUR/BK
RSCV-2RKC48	6603431	1	(I)	-	PUR/YE

**Anschlussbelegung
Pin configuration
Schéma de raccordement**

(F074)



Hinweis: Montage in Zone 2 möglich!
 Note: Mounting in zone 2 possible!
 Consigne: montage en zone 2 possible!

Bauform Housing style Format [mm]	Verbindungstechnik/Connection technology/Connexion		
	Bus-IN	Bus-OUT	Drop lines
	1 × M12 (F068)	1 × M12 (F069)	4 × M12 (F069)
	1 × M12 (F068)	1 × M12 (F069)	6 × M12 (F069)
	1 × M12 (F068)	1 × M12 (F069)	4 × M12 (F069)
	1 × M12 (F068)	1 × M12 (F069)	6 × M12 (F069)
	1 × 7/8" (F066)	1 × 7/8" (F067)	4 × 7/8" (F067)
	1 × 7/8" (F066)	1 × 7/8" (F067)	6 × 7/8" (F067)
	1 × 7/8" (F066)	1 × 7/8" (F067)	4 × 7/8" (F068)
	1 × 7/8" (F066)	1 × 7/8" (F067)	6 × 7/8" (F068)
	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	4 × M20 × 1,5 (Ø 6...12 mm) (F074)
	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	4 × M20 × 1,5 (Ø 6...12 mm) (F074)
	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	4 × M20 × 1,5 (Ø 6...12 mm) (F074)
	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	1 × M20 × 1,5 (Ø 6...12 mm) (F074)	4 × M20 × 1,5 (Ø 6...12 mm) (F074)

Die zulässigen Werte für C_0 und L_0 entsprechen den zulässigen Werten der eigensicheren Energieversorgung unter Berücksichtigung von C_i und L_i des Verteilerbausteins./

The permissible values for C_0 and L_0 correspond to the permissible values for intrinsically-safety energy supply taking the C_i and L_i of the junction box into consideration./

Les valeurs admissibles pour C_0 et L_0 correspondent aux valeurs admissibles de l'alimentation en énergie en tenant compte du C_i et L_i du boîtier de distribution.

FISCO-Parameter nach IEC TS 60079-27
FISCO parameters acc. to IEC TS 60079-27
Paramètres FISCO suivant IEC TS 60079-27

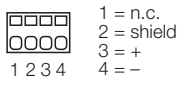
$U_i = 17,5$ VDC
 $I_i = 380$ mA
 $P_i = 5,32$ W
 $C_i < 5$ nF
 L_i vernachlässigbar/negligible/négligeable
 $U_0 = 17,5$ VDC
 $I_0 = 380$ mA
 $P_0 = 5,32$ W

Entity-Parameter
Entity parameters
Paramètres Entity

$U_i = 24$ VDC
 $I_i = 250$ mA
 $P_i = 2,56$ W
 $C_i < 5$ nF
 L_i vernachlässigbar/negligible/négligeable
 $U_0 = 24$ VDC
 $I_0 = 250$ mA
 $P_0 = 2,56$ W

Anschlussbelegung Pin configuration Schéma de raccordement	(F066)	(F067)	(F068)	(F069)

Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.	Kanäle Channels Canaux	Maßbild Dimension drawing Schéma dimensionnel	Kurzschlusschutz pro Stichleitung Short-circuit protection per drop Protection contre les courts-circuits par „drop“	Material der Anschlüsse/Farbe Connector materials/colour Matériau des ports/couleur
JBBS-48-E413/Ex	6611401	4	(A)	–	VA
JBBS-48-E613/Ex	6611403	6	(B)	–	VA
JBBS-48SC-E413/Ex	6611409	4	(A)	30, 35, 45, 60 mA	VA
JBBS-48SC-E613/Ex	6611411	6	(B)	30, 35, 45, 60 mA	VA
JBBS-48-M413/Ex	6611405	4	(A)	–	VA
JBBS-48-M613/Ex	6611407	6	(B)	–	VA
JBBS-48SC-M413/Ex	6611413	4	(A)	30, 35, 45, 60 mA	VA
JBBS-48SC-M613/Ex	6611415	6	(B)	30, 35, 45, 60 mA	VA
JBBS-48-T415B/Ex	6611421	4	(C)	–	PVC/BU
JBBS-48-T615B/Ex	6611423	6	(D)	–	PVC/BU
JBBS-48SC-T415B/Ex	6611417	4	(C)	30, 35, 45, 60 mA	PVC/BU
JBBS-48SC-T615B/Ex	6611419	6	(D)	30, 35, 45, 60 mA	PVC/BU

Anschlussbelegung Pin configuration Schéma de raccordement	(F074)
	 <p>1 = n.c. 2 = shield 3 = + 4 = -</p>



Bauform Housing style Format [mm]	Verbindungstechnik/Connection technology/Connexion		
	Bus-IN	Bus-OUT	Drop lines
<p>(A)</p> <p>(B)</p> <p>(C)</p> <p>(D)</p>	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables
	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables
	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables
	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables
	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables
	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables
	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables
	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables	Abziehbare Schraubklemmen/ Removable screw terminals/ Bornes à vis débrochables

Hinweis: Zugelassen nach FISCO und FNICO, Montage in Zone 1 oder 2 möglich!/
 Note: Approved per FISCO and FNICO, mounting in zone 1 or 2 possible!/
 Consigne: Homologué par FISCO et FNICO, montage en zone 1 ou 2 possible!

Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.	Kanäle Channels Canaux	Maßbild Dimension drawing Schéma dimensionnel	Kurzschlusschutz pro Stichleitung Short-circuit protection per drop Protection contre les courts-circuits par „drop“	Material der Anschlüsse/Farbe Connector materials/colour Matériau des ports/couleur
JRBS-40-4R/Ex	6611456	4	(A)	–	PA/BK
JRBS-40-6R/Ex	6611457	6	(B)	–	PA/BK
JRBS-40-8R/Ex	6611458	8	(C)	–	PA/BK
JRBS-40-12R/Ex	6611462	12	(D)	–	PA/BK
JRBS-40SC-4R/Ex	6611459	4	(A)	30, 35, 45, 60 mA	PA/BK
JRBS-40SC-6R/Ex	6611460	6	(B)	30, 35, 45, 60 mA	PA/BK
JRBS-40SC-8R/Ex	6611461	8	(C)	30, 35, 45, 60 mA	PA/BK
JRBS-40SC-12R/Ex	6611463	12	(D)	30, 35, 45, 60 mA	PA/BK



Bauform Housing style Format [mm]	Verbindungstechnik/Connection technology/Connexion		
	Bus-IN	Bus-OUT	Drop lines
<p>(A)</p>	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
<p>(B)</p>	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
<p>(C)</p>	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
<p>(D)</p>	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort
	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort	Federzugklemmen/ Cage clamp terminals/ Bornes à ressort

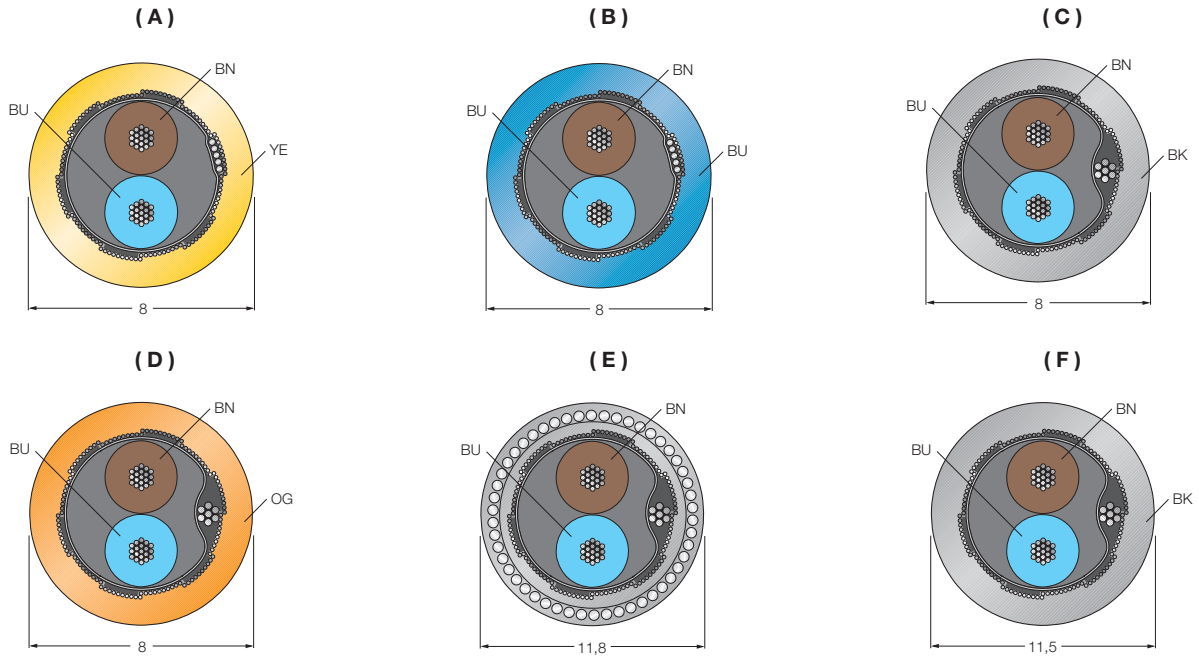
Hinweis: FISCO und FNICO zugelassen, Montage in Zone 1 oder 2 möglich!

Note: FISCO and FNICO approved, mounting in zone 1 or 2 possible!

Consigne: Homologué par FISCO et FNICO, montage en zone 1 ou 2 possible!

Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.	Kanäle Channels Canaux	Maßbild Dimension drawing Schéma dimensionnel	Kurzschlusschutz pro Stichleitung Short-circuit protection per drop Protection contre les courts-circuits par „drop“	Material der Anschlüsse/Farbe Connector materials/colour Matériau des ports/couleur
JRBS-40-4C/Ex	6611448	4	(A)	–	PA/BK
JRBS-40-6C/Ex	6611449	6	(B)	–	PA/BK
JRBS-40-8C/Ex	6611450	8	(C)	–	PA/BK
JRBS-40-12C/Ex	6611454	12	(D)	–	PA/BK
JRBS-40SC-4C/Ex	6611451	4	(A)	30, 35, 45, 60 mA	PA/BK
JRBS-40SC-6C/Ex	6611452	6	(B)	30, 35, 45, 60 mA	PA/BK
JRBS-40SC-8C/Ex	6611453	8	(C)	30, 35, 45, 60 mA	PA/BK
JRBS-40SC-12C/Ex	6611455	12	(D)	30, 35, 45, 60 mA	PA/BK

PROFIBUS-PA **Kabelmeterware**
Bulk cable
Câble en pièce



Feldbus Fieldbus Bus de terrain	Kabeltyp Cable type Type de câble	Farbe Colour Couleur	Abb. Fig. Fig.	Material Kabelmantel Cable jacket material Matériau gaine de câble	UV-beständig UV resistant Résistant à l'UV	Halogenfrei Halogen-free Sans halogène	Armierung Armoured Armature
FOUNDATION™ fieldbus und/and/et PROFIBUS-PA	FBY-YE/SD	YE	(A)	PVC	•	–	–
	FBY-BU/SD	BU	(B)	PVC	•	–	–
	FBY-BK/SD	BK	(C)	PVC	•	–	–
	FBY-OG/SD	OG	(D)	PVC	•	–	–
	FBH-YE/SD	YE	(A)	SZH	•	•	–
	FBA-YE/SD	YE	(E)	PVC	•	–	•
	FBY-BK/LD	BK	(F)	PVC	•	–	–

Standard-Kabellängen für Meterware/Standard cable lengths for bulk cable/longueurs standard pour câble en pièce

FBY-.../SD				FBY-.../LD				FBH-.../SD				FBA-.../SD			
[m]				[m]				[m]				[m]			
100	250	500	1000	100	250	500	1000	100	250	500	1000	100	250	500	1000

Leiter-Querschnitt Conductor cross-section Section de conducteur [AWG/mm ²]	Nennstrom Rated current Courant nominal [A]	DC-Widerstand DC resistance Résistance DC [Ω/km]	Nom. Impedanz Nom. impedance Impédance nominale [Ω]	Schirmung Shielding Blindage	Flammwidrig gem. Flame retardent conform to Ininflammable suivant	Zulassungen Approvals Certificats
18/0,8	12	2 × 21,8	100 (31,25 kHz)	•	IEC 60332-3	UL
18/0,8	12	2 × 21,8	100 (31,25 kHz)	•	IEC 60332-3	UL
18/2,1	16	2 × 21,8	100 (31,25 kHz)	•	IEC 60332-3	UL
18/0,8	12	2 × 21,8	100 (31,25 kHz)	•	IEC 60332-3	UL
18/0,8	12	2 × 21,8	100 (31,25 kHz)	•	IEC 60332-3	UL
18/0,8	12	2 × 21,8	100 (31,25 kHz)	•	IEC 60332-3	UL
14/2,1	16	2 × 17,2	100 (31,25 kHz)	•	IEC 60332-3	UL

Feldbus-Technik/Fieldbus Technology/
Technique du bus de terrain

PROFIBUS-PA Konfektionierte Leitungen für PROFIBUS-PA Prefabricated cables for PROFIBUS-PA Câbles confectionnés pour PROFIBUS-PA

Idealerweise ist die Länge einer Leitung genau auf die Bedingungen einer Anlage zugeschnitten. Deshalb bietet TURCK jetzt einen Just-in-Time-Lieferservice (JIT) für konfektionierte Leitungen.

Das neue JIT-5D-Programm für perfekte Verbindungen:

- Just-in-Time-Lieferung innerhalb von nur 5 Tagen*
- Freie Auswahl der Leitungslänge
- Konfektionierte Feldbus- und Versorgungleitungen
- Große Flexibilität bei der Planung und dem Aufbau Ihrer Applikation
- Hohe Kostenersparnis

Ideally, the length of the cord set is adjusted according to the requirements of the plant. For this reason TURCK now offers a Just-In-Time-delivery service (JIT) for premoulded cables.

The new JIT-5D-Programme for perfect connections:

- Just-In-Time delivery within 5 days only*
- Free choice of cable length
- Premoulded fieldbus and power cables
- High flexibility with respect to planning and mounting of your application
- High cost savings

Sous des conditions idéales la longueur des câbles à connecteur est adaptée aux exigences de l'application. C'est pourquoi TURCK offre le programme de livraison Just-In-Time (JIT) pour câbles préconfectionnés.

Le nouveau programme JIT-5D pour des connexions parfaites:

- Livraison Just-in-Time en 5 jours seulement*
- Longueur du câble au choix
- Câbles pour bus de terrain et d'alimentation préconfectionnés
- Grande flexibilité pour la planification et la réalisation de votre installation
- Economie des frais de montage considérable

**1. Arbeitstag
Workday
Jour ouvrable**

**Bestellung bis 12 Uhr
Ordering until 12 pm
Commande avant 12.00 du matin**

**Produktion
Production
Production**

**3 Arbeitstage nach Bestellung Versand
Delivery 3 workdays after ordering
Envoi 3 jours ouvrables après la commande**

**JUST
IN
TIME!**

**Wareneingang beim Kunden
Arrival at the customer
Livraison chez le client**

**5. Arbeitstag*
Workday*
Jour ouvrable***

* gilt für Lieferungen innerhalb der Europäischen Union (EU) valid for deliveries within the European Union (EU) applicable pour les livraisons dans l'Union Européenne (UE)

RKCV - RSCV - FBY48x - *M / 5D

**Bauform-
geometrie/Geo-
metry/Géométrie**

R: gerade
straight
droit

W: abgewinkelt
angled
coudé

**Anschlussart/
Connection mode/
Type de connexion**

S: Stecker/male/mâle

K: Kupplung/female/
femelle

**Mechanischer Anschluss
Mechanical connection
Connexion mécanique**

C: M12

ohne/without/sans: 7/8"

S: M12 geschirmt/shielded
blindé

**Überwurfmutter/Codierung
Coupling nut/Coding
Ecrou de serrage/Codage**

M/ohne/without/sans:

Überwurfmutter:

Messing, vernickelt

coupling nut:

brass, nickel-plated

écrou de serrage:

laiton, nickelé

V: Überwurfmutter: Edelstahl

coupling nut: stainless steel

écrou de serrage: acier inox

W: Überwurfmutter: Messing,

vernickelt, Steckverbinder

invers codiert

coupling nut: brass, nickel-

plated, reverse-keyed con-

nectors

écrou de serrage: laiton,

nickelé, connecteur

codé inversement

**Just-in-time-Programme
(5 Tage/days/jours)**

Leitungslänge/cable length/longueur

1 ... 5 m (in 0,5-m-Schritten verfügbar)
(available in 0.5 m steps)

(disponible en pas de 0,5-m)

5 ... 50 m (in 1-m-Schritten verfügbar)

(available in 1 m steps)

(disponible en pas de 1-m)

Feldbussystem/Fieldbus system/Système de bus de terrain


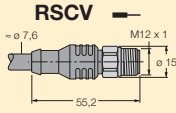
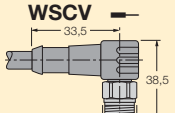
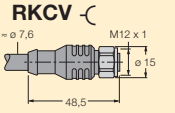
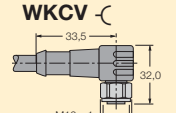



FBY48x: PROFIBUS-PA

x = Farbe: BU = blau, BK = schwarz, OG = orange, YE= gelb



x = colour: BU = blue, BK = black, OG = orange, YE= yellow

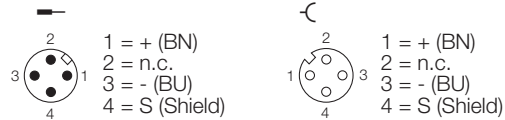
x = couleur: BU = bleu, BK = noir, OG = orange, YE= jaune


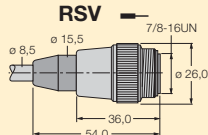
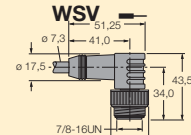
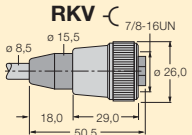
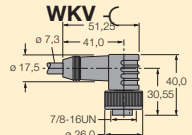



**für beidseitig konfektionierte Leitungen
for premoulded cables on both ends
pour câbles confectionnés des deux côtés**

M12 x 1	Typenbezeichnungen/Type/Type Kabeltyp/Cable type/Type de câble FBY48x, x = Farbe/colour/couleur (BU, BK, OG, YE), *M = Länge in Metern/length in metres/longueur en mètre				
 einseitig vorkonfektioniert/connecter at one end/ préconfectionné d'un côté	 RSCV	 WSCV	 RKCV	 WKCV	
RSCV 	RSCV-FBY48x- *M/5D	RSCV-RSCV-FBY48x- *M/5D	—	RSCV-RKCV-FBY48x- *M/5D	—
WSCV 	WSCV-FBY48x- *M/5D	—	WSCV-WSCV-FBY48x- *M/5D	—	WSCV-WKCV-FBY48x- *M/5D
RKCV 	RKCV-FBY48x- *M/5D	—	—	RKCV-RKCV-FBY48x- *M/5D	—



Pinbelegung/Pin configuration/Schéma de raccordement:

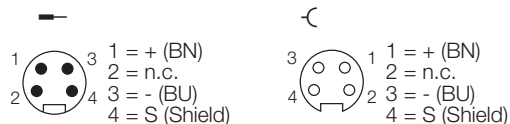
Stecker/male connector/connecteur mâle 
 Kupplung/female connector/connecteur femelle 



7/8"	Typenbezeichnungen/Type/Type Kabeltyp/Cable type/Type de câble FBY48x, x = Farbe/colour/couleur (BU, BK, OG, YE), *M = Länge in Metern/length in metres/longueur en mètre				
 einseitig vorkonfektioniert/connecter at one end/ préconfectionné d'un côté	 RSV	 WSV	 RKV	 WKV	
RSV 	RSV-FBY48x- *M/5D	RSV-RSV-FBY48x- *M/5D	—	RSV-RKV-FBY48x- *M/5D	—
WSV 	WSV-FBY48x- *M/5D	—	WSV-WSV-FBY48x- *M/5D	—	WSV-WKV-FBY48x- *M/5D
RKV 	RKV-FBY48x- *M/5D	—	—	RKV-RKV-FBY48x- *M/5D	—

Pinbelegung/Pin configuration/Schéma de raccordement:

Stecker/male connector/connecteur mâle 
 Kupplung/female connector/connecteur femelle 



Steckverbinder

Überwurfmutter: Edelstahl
 Kontakte: vergoldet
 Griffkörper: PA
 Schutzart: IP67

Kabelaufbau

Außenmantel: Polyvinyl-Chlorid (PVC)
 Adernisolation: PE-Schaumstoff mit PR-Mantel
 Farbkodierung: BN, BU
 Isolierhülle: extrudierte Spezialmischung
 Schirm: eine Seite plastikbeschichtetes Aluminiumband, metallische Außenfläche mit Kontakt zu verzinnem Kupfergeflecht und verseilter Beilaufitze
 Durchmesser: ≤ 8 mm
 Leiter: 18/7 AWG (0,8 mm²), verseiltes blankes Kupfer

Connectors

Coupling nut: Stainless steel
 Contacts: Gold-plated
 Grip: PA
 Protection degree: IP67

Cable layout

Outer jacket: Polyvinyl chloride (PVC)
 Core isolation: PE-foam with PR-jacket
 Colour code: BN, BU
 Insolation: Extruded special compound
 Shield: One side plastic coated with aluminium strip, metal exterior with contact to tin-plated copper braid and stranded drain wire
 Diameter: ≤ 8 mm
 Conductor: 18/7 AWG (0.8 mm²), stranded blank copper

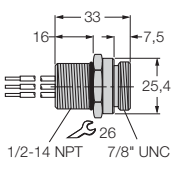
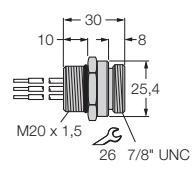
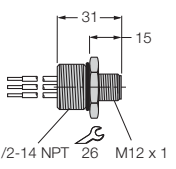
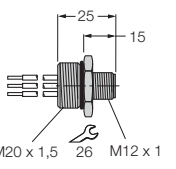
Connecteurs

Ecrou de serrage: acier inox
 Contacts: dorés
 Corps de manchon: PA
 Degré de protection: IP67

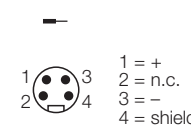
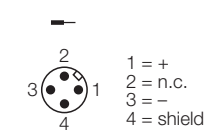
Structure de câble

Gaine extérieure: chlorure de polyvinyle (CPV)
 Isolation conducteurs: mousse synthétique PE avec gaine PR
 Codification par couleur: BN, BU
 Gaine isolante: mélange special extrudé
 Blindage: bande d'aluminium couverte d'une couche plastique d'un côté, face extérieure métallique avec contact au fil de cuivre étamé et au conducteur multibrin toronné
 Diamètre: ≤ 8 mm
 Conducteur: 18/7 AWG (0,8 mm²), cuivre nu toronné

PROFIBUS-PA Flansche
Flanges
Brides

Abmessungen Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection technology Connexion	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	<p>Konfektionierbarer 7/8"-Flansch, Stecker, Gewinde 1/2-14 NPT, Kabellänge 0,3 m/ Field wireable 7/8" flange, male connector, 1/2-14 NPT thread, cable length 0.3 m/ Bride 7/8" confectionnable, connecteur mâle, filetage 1/2-14 NPT, longueur de câble 0,3 m</p>	1 x 7/8" (F066)	RSFV48-0,3M/14,5/C1117	6611022
	<p>Konfektionierbarer 7/8"-Flansch, Stecker, Gewinde M20 x 1,5, Kabellänge 0,3 m/ Field wireable 7/8" flange, male connector, M20 x 1,5 thread, cable length 0.3 m/ Bride 7/8" confectionnable, connecteur mâle, filetage M20 x 1,5, longueur de câble 0,3 m</p>	1 x 7/8" (F066)	RSFV48-0,3M/M20/C1117	6603617
	<p>Konfektionierbarer M12 x 1-Flansch, Stecker, Gewinde 1/2-14 NPT, Kabellänge 0,3 m/ Field wireable M12 x 1 flange, male connector, 1/2-14 NPT thread, cable length 0.3 m/ Bride M12 x 1 confectionnable, connecteur mâle, filetage 1/2-14 NPT, longueur de câble 0,3 m</p>	1 x M12 (F068)	FSV48-0,3M/14,5/C1117	6611024
	<p>Konfektionierbarer M12 x 1-Flansch, Stecker, Gewinde M20 x 1,5, Kabellänge 0,3 m/ Field wireable M12 x 1 flange, male connector, M20 x 1,5 thread, cable length 0.3 m/ Bride M12 x 1 confectionnable, connecteur mâle, filetage M20 x 1,5, longueur de câble 0,3 m</p>	1 x M12 (F068)	FSV48-0,3M/M20/C1117	6611026

Anschlussbelegung
Pin configuration
Schéma de raccordement

(F066)	(F068)
	

Abmessungen Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection technology Connexion	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	<p>Konfektionierbarer 7/8"-Flansch, Kupplung, Gewinde 1/2-14 NPT, Kabellänge 0,3 m/ Field wireable 7/8" flange, female connector, 1/2-14 NPT thread, cable length 0.3 m/ Bride 7/8" confectionnable, connecteur femelle, filetage 1/2-14 NPT, longueur de câble 0,3 m</p>	1 x 7/8" (F067)	RK FV48-0,3M/14,5/C1117	6611023
	<p>Konfektionierbarer 7/8"-Flansch, Kupplung, Gewinde M20 x 1,5, Kabellänge 0,3 m/ Field wireable 7/8" flange, female connector, M20 x 1,5 thread, cable length 0.3 m/ Bride 7/8" confectionnable, connecteur femelle, filetage M20 x 1,5, longueur de câble 0,3 m</p>	1 x 7/8" (F067)	RK FV48-0,3M/M20/C1117	6603610
	<p>Konfektionierbarer M12 x 1-Flansch, Kupplung, Gewinde 1/2-14 NPT, Kabellänge 0,3 m/ Field wireable M12 x 1 flange, female connector, 1/2-14 NPT thread, cable length 0.3 m/ Bride M12 x 1 confectionnable, connecteur femelle, filetage 1/2-14 NPT, longueur de câble 0,3 m</p>	1 x M12 (F069)	FK V48-0,3M/14,5/C1117	6611025
	<p>Konfektionierbarer M12 x 1-Flansch, Kupplung, Gewinde M20 x 1,5, Kabellänge 0,3 m/ Field wireable M12 x 1 flange, female connector, M20 x 1,5 thread, cable length 0.3 m/ Bride M12 x 1 confectionnable, connecteur femelle, filetage M20 x 1,5, longueur de câble 0,3 m</p>	1 x M12 (F069)	FK V48-0,3M/M20/C1117	6611027

**Anschlussbelegung
Pin configuration
Schéma de raccordement**

	(F067)	(F069)

Abmessungen Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection technology Connexion	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	<p>Konfektionierbarer 7/8"-Flansch, Stecker, lötbar/ Field wireable 7/8" flange, male connector, field solderable/ Bride 7/8" confectionnable, connecteur mâle, brasable</p>	1 x 7/8" (F066)	RSFV48	6604441
	<p>Konfektionierbarer 7/8"-Flansch, Kupplung, lötbar/ Field wireable 7/8" flange, female connector, field solderable/ Bride 7/8" confectionnable, connecteur femelle, brasable</p>	1 x 7/8" (F067)	RKFV48	6604406
	<p>Konfektionierbarer M12 x 1-Flansch, Stecker, lötbar/ Field wireable M12 x 1 flange, male connector, field solderable/ Bride M12 x 1 confectionnable, connecteur mâle, brasable</p>	1 x M12 (F068)	FSV49	6604378
	<p>Konfektionierbarer M12 x 1-Flansch, Kupplung, lötbar/ Field wireable M12 x 1 flange, female connector, field solderable/ Bride M12 x 1 confectionnable, connecteur femelle, brasable</p>	1 x M12 (F069)	FKV49	6603426

Anschlussbelegung Pin Configuration Schéma de raccordement	(F066)	(F067)	(F068)	(F069)

PROFIBUS-PA 7/8"-Steckverbinder
7/8" Connectors
Connecteurs 7/8"



Abmessungen Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection technology Connexion	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	Feldkonfektionierb. 7/8"-Stecker, gerade, Kabeldurchlass 6...8 mm/ Field wireable 7/8" straight male connector, 6...8 mm cable entry/ Connecteur mâle 7/8" confectionnable, droit, passage de câble 6...8 mm	1 x 7/8" (F066)	BSV4140-0/9	6614542
	Feldkonfektionierb. 7/8"-Kuppl., gerade, Kabeldurchlass 6...8 mm/ Field wireable 7/8" straight female connector, 6...8 mm cable entry/ Connecteur femelle 7/8" confectionnable, droit, passage de câble 6...8 mm	1 x 7/8" (F067)	BKV4140-0/9	6914543
	Feldkonfektionierb. 7/8"-Stecker, gerade, Kabeldurchlass 12...14 mm/ Field wireable 7/8" straight male connector, 12...14 mm cable entry/ Connecteur mâle 7/8" confectionnable, droit, passage de câble 12...12 mm	1 x 7/8" (F066)	BSV4140-0/16	6914541
	Feldkonfektionierb. 7/8"-Kuppl., gerade, Kabeldurchlass 12...14 mm Field wireable 7/8" straight female connector, 12...14 mm cable entry Connecteur femelle 7/8" confectionnable, droit, passage de câble 12...12 mm	1 x 7/8" (F067)	BKV4140-0/16	6914544

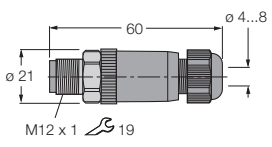
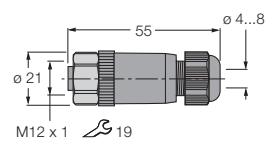
Anschlussbelegung Pin Configuration Schéma de raccordement	(F066)	(F067)

Feldbustechnik/Fieldbus Technology/
Technique du bus de terrain

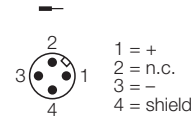
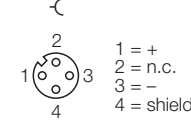
PROFIBUS-PA M12 x 1-Steckverbinder
M12 x 1 connectors
Connecteurs M12 x 1

Abmessungen Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection technology Connexion	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	Feldkonfektionierbarer M12 x 1-Stecker, gerade, Kabeldurchlass 4...8 mm/ Field wireable M12 x 1 straight male connector, 4...8 mm cable entry/ Connecteur mâle M12 x 1 confectionnable, droit, passage de câble 4...8 mm	1 x M12 (F068)	BSV8140-0/9	6914537
	Feldkonfektionierbare M12 x 1-Kuppl., gerade, Kabeldurchlass 4...8 mm/ Field wireable 7/8" straight female connector, 4...8 mm cable entry/ Connecteur femelle M12 x 1 confectionnable, droit, passage de câble 4...8 mm	1 x M12 (F069)	BKV8140-0/9	6914538
	Feldkonfektionierb. M12 x 1-Stecker, abgewink., Kabeldurchlass 4...8 mm/ Field wireable M12 x 1 right angle male connector, 4...8 mm cable entry/ Connecteur mâle M12 x 1 confectionnable, coudé, passage de câble 4...8 mm	1 x M12 (F068)	BSV8240-0/9	6914539
	Feldkonfektionierb. M12 x 1-Kuppl., abgewink., Kabeldurchlass 4...8 mm/ Field wireable M12 x 1 right angle female con- nect., 4...8 mm cable entry/ Connecteur femelle M12 x 1 confectionnable, coudé, passage de câble 4...8 mm	1 x M12 (F069)	BKV8240-0/9	6914540

Anschlussbelegung Pin configuration Schéma de raccordement	(F068)	(F069)

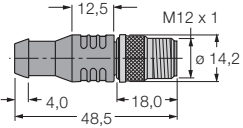
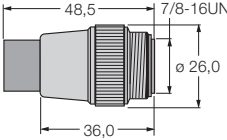
Abmessungen Dimensions Dimensions [mm]	Anwendung Application Application	Verbindungs- technik Connection technology Connexion	Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.
	Feldkonfektionierbarer M12 x 1-Stecker, gerade, Kabeldurchlass 4...9 mm/ voll geschirmt/Field wireable M12 x 1 straight male connector, PG9 cable gland, 4...9 mm/ cable entry/fully shielded/ Connecteur mâle M12 x 1 confectionnable, droit, presse-étoupe PG9, passage de câble 4...9 mm/entièrement blindé	1 x M12 (F068)	BMSS8141-0/9	6904701
	Feldkonfektionierbare M12 x 1-Kuppl., gerade, Kabelversch. PG9, Kabeldurchlass 4...9 mm/ voll geschirmt/Field wireable M12 x 1 straight female connector, PG9 cable gland, 4...9 mm/ cable entry/fully shielded/Connecteur femelle M12 x 1 confectionnable, droit, presse-étoupe PG9, passage de câble 4...9 mm/entièrement blindé	1 x M12 (F069)	BMS8141-0/9	6904702

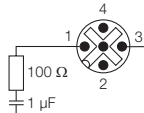
**Anschlussbelegung
Pin configuration
Schéma de raccordement**

(F068)	(F069)
	

Feldbustechnik/Fieldbus Technology/
Technique du bus de terrain

PROFIBUS-PA **Abschlusswiderstände**
Terminating resistors
Résistances de fin de ligne

Bauform Housing style Format [mm]	Verbindungstechnik/Connection technology/Connexion		
	Bus-IN	Bus-OUT	Drop lines
<p>(A)</p> 	1 × M12 (F042)	–	–
	1 × 7/8" (F043)	–	–
	1 × M12 (F042)	–	–
<p>(B)</p> 			

Anschlussbelegung Pin configuration Schéma de raccordement	(F042)	(F043)
		

Typenbezeichnung Type Type	Ident-Nr. Ident-no. No. d'ident.	Anzahl der Anschlüsse Number of connections Nombre de ports	Maßbild Dimension drawing Schéma dimensionnel	Kurzschlusschutz pro Stichleitung Short-circuit protection per drop Protection contre les courts-circuits par „drop“	Material der Anschlüsse/Farbe Connector materials/colour Matériau des ports/couleur
RSEV-48TR-Ex	6602560	1/-	(A)	-	VA
RSMV-48TR-Ex	6602370	1/-	(B)	-	VA
RSE-48TR-Ex	6602250	1/-	(A)	-	CuZn-Ni

excom® – Remote-I/O-System

excom® – Vorteile im Ex-Einsatz

- Ex-Remote-I/O-System zum Einsatz in Zone 1 und 2
- Redundante Stromversorgungen und Gateways
- Eigensicherer Anschluss an PROFIBUS-DP mit V1-Funktionalität
- Online-Parametrierung und Online-Konfiguration aller Parameter möglich
- Durchgängige HART®-Parametrierung vom Prozessleitsystem bis zum Feld
- Arbeitstemperaturbereich von -20...+60 °C
- Austausch und Erweiterung aller Komponenten im laufenden Betrieb
- Stecken und Ziehen der Module ohne Werkzeuge mit einer Hand
- 128 binäre oder 64 analoge eigensichere Kanäle über eine Busadresse
- Forcen und Ersatzwertaufschaltung für analoge und binäre E/A

excom® ist ein Remote-I/O-System für den Einsatz in explosionsgefährdeten Bereichen. Es bietet busfähige, dezentrale Ein-/Ausgangsmodule in Schutzart IP20 zum Anschluss von binären und analogen eigensicheren Feldgeräten.

Die Ex-Schutzart des Systems erlaubt den Einsatz in den Zonen 1 und 2. Die Feldstromkreise sind für die Zone 0 zugelassen.

Systemaufbau

Das System besteht aus Netzteilen, Gateways, E/A-Modulen sowie Modulträgern zur Aufnahme aller Komponenten. In den Modulträgern integriert ist die Backplane. Die Backplane dient zur Energieverteilung, zum Datentransport und enthält die Anschlussebene für die Feldgeräte.

Die Netzteile stellen die Stromversorgung des gesamten Systems sicher. Für den ordnungsgemäßen Betrieb reicht ein Netzteil aus. Um die Verfügbarkeit zu erhöhen, kann bei Verwendung des Modulträgers MT18 ein weiteres Netzteil angeschlossen werden (Redundanz).

excom® – Remote I/O system

excom® – particularly suited for explosion hazardous applications

- Intrinsically safe remote I/O system for application in zones 1 and 2
- Redundant power supplies and gateways
- Intrinsically safe connection to PROFIBUS-DP with V1 functionality
- Online parameterisation and configuration of all parameters
- Consistent HART® parameterisation of field devices via the process control system
- Operating temperature -20...+60 °C
- Exchange of components and system expansion during operation
- Insertion and removal of modules without any tools
- 128 binary or 64 analogue intrinsically safe channels via a single bus address
- Forcing and substitute value programming for analogue and binary I/O

excom® is a remote I/O system for use in potentially explosion hazardous locations. It provides bus-compatible, decentralised input and output modules in protection degree IP20 for connection of binary and analogue intrinsically safe field devices.

The explosion protection type of the systems allows use in zones 1 and 2. The fieldbus circuits are approved for use in zone 0.



excom® – Système d'E/S déporté

System construction

The system consists of power supplies, gateways, I/O modules and a module rack to accommodate all components. The backplane is integrated into the module rack. The backplane is designed to distribute energy, transmit data and to provide the connection level for the field devices.

The power supply units ensure reliable supply of the entire system. A single power supply is sufficient to ensure correct system operation. In order to enhance system availability, a second supply unit may be connected (redundancy) when using the module rack type MT18.

excom® – avantages en zone Ex

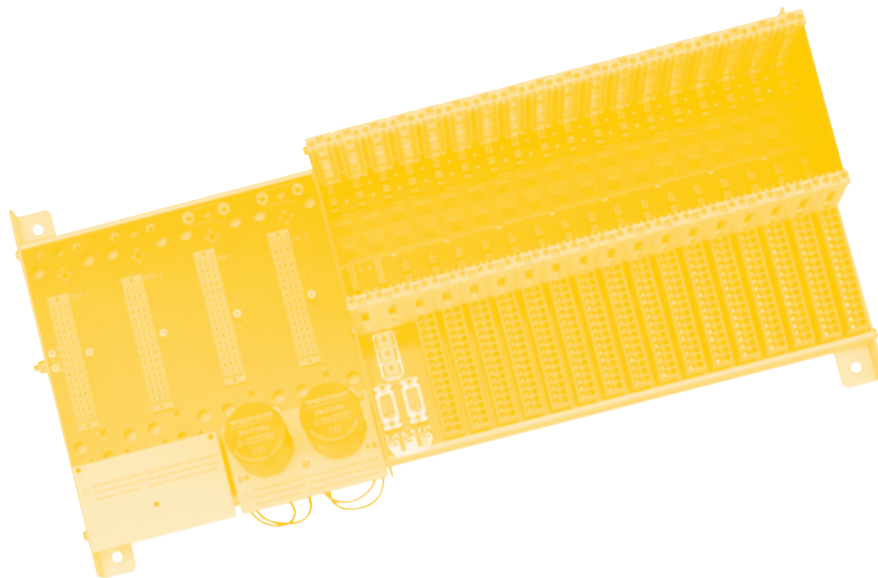
- Système d'E/S déporté pour utilisation en Zones 1 et 2
- Alimentation et communication redondantes
- Connexion de sécurité intrinsèque à PROFIBUS-DP avec fonctionnalités V1
- Transparence HART® du système de commande à l'appareil de terrain
- Plage de température de fonctionnement: -20 °C...+60 °C
- Extension du système et remplacement de l'ensemble des modules possible en fonctionnement
- Mise en place et insertion des modules sans outil particulier
- 128 canaux binaires ou 64 signaux analogiques de sécurité intrinsèque sous une unique adresse bus
- Possibilité de forcer et de paramétrer les positions de repli pour les E/S analogiques et binaires

excom® est un système d'entrées/sorties déportées pour zones explosibles. Il propose des modules d'E/S décentralisées, compatibles bus de terrain, dans le mode de protection IP20, pour le raccordement d'appareils de terrain binaires et analogiques en sécurité intrinsèque.

Le mode de protection Ex du système permet son implantation en Zone 1 et en Zone 2. Les appareils de terrain peuvent être utilisés en Zone 0.

Structure du système

Le système se compose de modules d'alimentation, de modules de communication, de modules d'E/S ainsi que d'une platine permettant d'accueillir l'ensemble des composants. La platine sert à distribuer l'énergie, à transporter les données et à raccorder les E/S au système. Un deuxième module d'alimentation peut être utilisé (redundance) avec la platine MT18.



excom® – Feldbuskomponenten

Gateways

Die Gateways sind Master für den internen Datenbus und Slaves zum übergeordneten Feldbus. Sie regeln den gesamten Datenverkehr zwischen einem E/A-Modul und dem Prozessleitsystem (PLS). Um die Verfügbarkeit und Ausfallsicherheit zu erhöhen, kann bei Verwendung des MT18 ein zweites Gateway gesteckt werden (Redundanz).

E/A-Module

Die E/A-Module sind die Schnittstelle zur Peripherie. Die Ein-/Ausgänge erlauben den Anschluss von Feldgeräten in Schutzart EEx ia IIC. Es können insgesamt bis zu 16 E/A-Module mit einem Modulträger betrieben werden. Die E/A-Module werden eigensicher aus der Backplane versorgt, es ist keine zusätzliche Stromversorgung notwendig.

Der Anschluss aller Module ist einfach zu handhaben: Gateways, Stromversorgungen und E/A-Module werden auf den Modulträger gesteckt. Damit sind alle internen Verbindungen hergestellt, es muss nur noch die Peripherie angeschlossen werden.

Alle Module können im laufendem Betrieb gesteckt und gezogen werden (Hot Swapping). Auch der Austausch defekter Geräte im laufenden Betrieb ist dadurch sichergestellt. Es wird automatisch überprüft, ob das neue Modul mit den Steckplatzvorgaben übereinstimmt. Die Parametrierung von Ersatzwerten wird vom System unterstützt.

Die interne Zykluszeit für ein voll ausgebautes System liegt unterhalb von 5 ms bei rein binärer Verarbeitung, bei analogen Signalen < 20 ms. Die Reaktionszeit ist zusätzlich abhängig von dem verwendeten PLS und dem eingesetzten Feldbus.

Der Anschluss von HART®-fähigen Feldgeräten wird unterstützt. Eine durchgängige HART®-Kommunikation bis zum PLS ist über den PROFIBUS-DPV1 möglich.

SPS-/PLS-Anschlüsse:

excom® kann an jedes System mit PROFIBUS-DP-Anschaltung (Masterfunktionalität) angeschlossen werden.

Um den vollen Funktionsumfang zu erhalten, ist ein Master mit PROFIBUS-DPV1-Funktionalität zu wählen.

excom® – Fieldbus components

Gateways

The gateways fulfil both master and slave functions: as a master they control the internal data bus and as a slave they communicate with the higher level fieldbus. The gateway handles the entire communication procedure between the I/O module and the process control system (PLC). A second gateway can be inserted, provided the module rack MT18 is used, thus increasing availability and fail-safety of the system.

I/O modules

The I/O modules are the interface to the periphery. The inputs and outputs serve to connect field devices in protection type EEx ia IIC. Up to 16 I/O modules may be operated in conjunction with a single module rack. The backplane provides the intrinsically safe supply of the I/O modules - an additional power supply is not needed.

Connection of modules is easily accomplished: gateways, power supplies and I/O modules are simply plugged into the rack. Thus all internal connections are established. Now the field components may be connected.



excom® – Composants pour bus de terrain

Modules can be plugged into and removed from the rack during operation (hot swapping). Defect devices can be exchanged during operation. The system automatically checks whether the new module accords to the designated slot. The system supports substitute value programming.

The internal cycle time of a fully assembled system is below 5 ms for binary processing and below 20 ms for analogue signals. The response time also depends on the type of PLC and fieldbus used in the application. The system supports connection of HART®-compatible field devices. Consistent HART® communication up to the PLC is possible via the PROFIBUS-DPV1.

PCS/PLC connection:
excom® may be connected to any system with PROFIBUS-DP interfacing (master functionality).

To obtain the full function range of the system, it is recommended to use a master system with PROFIBUS-DPV1- functionality.

Passerelles

Les passerelles sont maîtres pour le bus de données interne et esclave pour le bus de terrain supérieur. Ils régulent l'ensemble des échanges de données entre un module d'E/S et le système de commande (API). Un deuxième module d'interface peut être monté (redondance) sur la platine MT18.

Modules d'E/S

Les modules d'E/S constituent l'interface avec les appareils de terrain. Les E/S autorisent le raccordement des appareils de terrain en mode de protection EEx ia IIC. Jusqu'à 16 modules peuvent être regroupés sur une platine. La platine fournit l'alimentation de sécurité intrinsèque aux modules d'E/S. Le raccordement des modules est très simple: passerelles, alimentations et modules d'E/S sont simplement enfilés sur la platine. Seuls les appareils de terrain restent par la suite à raccorder.

Tous les modules peuvent être connectés/déconnectés en fonctionnement (hot swapping). L'échange de composants défectueux en fonctionnement ne pose donc aucun problème. Le système contrôle automatiquement si le nouveau module correspond à l'affectation des emplacements.

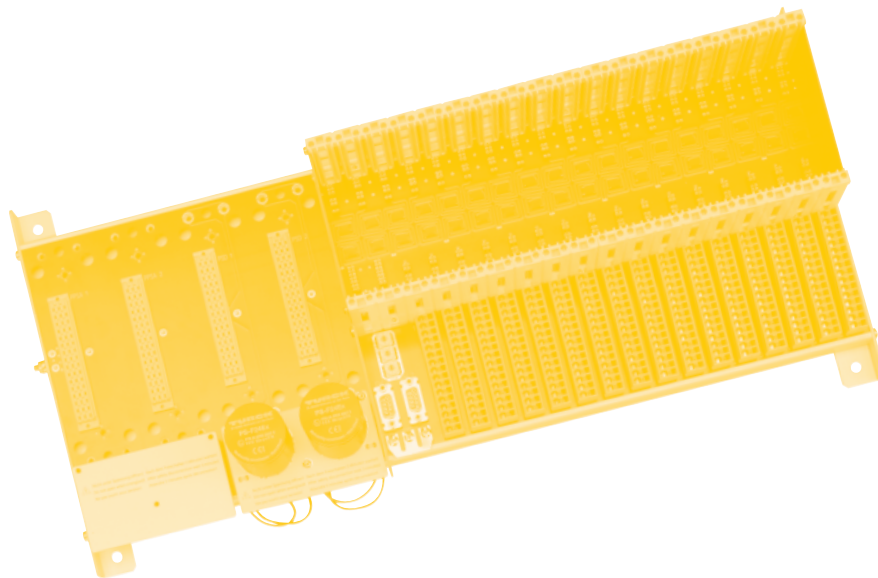
Le système permet de paramétrer des valeurs de repli.

Le temps de cycle interne d'un système complet est inférieur à 5ms dans le cas de signaux binaires, inférieur à 20ms dans le cas de signaux analogiques. Le temps de réaction dépend également du type de commande et du type de bus utilisé.

Il est possible de raccorder des appareils de terrain compatibles HART®. La communication HART® est possible via le PROFIBUS-DPV1.

Connexion API/SNCC:
excom® peut être raccordé à tout système de commande équipé d'une connexion PROFIBUS-DP (fonctionnalité de maître)

Afin de pouvoir utiliser l'ensemble des possibilités du système, il est recommandé d'utiliser un Maître avec fonctionnalités PROFIBUS-DPV1.



Geräteigenschaften/Device features/ Caractéristiques de l'appareil

Typenbezeichnung Type Type	Eingang Input Entrée	Ausgang Output Sortie	Anzahl E/A Number of I/O Nombre E/S	Galvanische Trennung zwischen den Kanälen Galvanic isolation between channels Séparation galvanique entre les canaux	Beschreibung Description Description
GDP1,5-FW...	–	–	–	–	Gateway – PROFIBUS-DP-Interface Passerelle PROFIBUS-DP
DM80Ex	NAMUR	binary/digital	8 E/A 8 I/O 8 E/S	–	8-kanaliges, digitales Ein-/Ausgangsmodul 8 channel, digital input/output module Module d'E/S digitaux, 8 canaux
DF20Ex	NAMUR	–	2 E 2 I 2 E	–	2-kanaliges Frequenzmodul 2 channel frequency module Module de fréquence, 2 canaux
DI40Ex	NAMUR	–	4 E 4 I 4 E	●	4-kanaliges, digitales Eingangsmodul 4 channel digital input module Module d'entrée digitale, 4 canaux
DO40Ex	–	binary/digital	4 A 4 O 4 S	●	4-kanaliges, digitales Ausgangsmodul 4 channel digital output module Module de sortie digitale, 4 canaux
AI40Ex	analog analogue analogique	–	4 E 4 I 4 E	●	4-kanaliges analoges Eingangsmodul, aktiv 4-channel analogue input module, active Module d'entrée analogique à 4 canaux, actif
AI41Ex	analog analogue analogique	–	4 E 4 I 4 E	●	4-kanaliges analoges Eingangsmodul, passiv 4-channel analogue input module, passive Module d'entrée analogique à 4 canaux, passif
AI43Ex	analog analogue analogique	–	4 E 4 I 4 E	●	4-kanaliges analoges Eingangsmodul, passiv 4-channel analogue input module, passive Module d'entrée analogique à 4 canaux, passif
AO40Ex	–	analog analogue analogique	4 A 4 O 4 S	●	4-kanaliges analoges Ausgangsmodul 4 channel analogue output module Module de sortie analogique, 4 canaux
AIH40Ex	analog analogue analogique	–	4 E 4 I 4 E	–	4-kanal. analoges Eingangsmodul, HART®, aktiv 4 channel analogue input module, HART®, active Module d'entrée analogique, HART®, 4 canaux, actif
AIH41Ex	analog ¹⁾ analogue ¹⁾ analogique ¹⁾	–	4 E 4 I 4 E	–	4-kanal. analoges Eingangsmodul, HART®, passiv 4 channel analogue input module, HART®, passive Module d'entrée analogique, HART®, 4 canaux, passif
AOH40Ex	–	analog analogue analogique	4 A 4 O 4 S	–	4-kanaliges analoges Ausgangsmodul, HART® 4 channel analogue output module, HART® Module de sortie analogique, HART®, 4 canaux
TI40Ex	analog ²⁾ analogue ²⁾ analogique ²⁾	–	4 E 4 I 4 E	●	4-kanaliges Eingangsmodul für Temp.-Fühler 4 channel input module for temperature sensors Module d'entrée à 4 canaux pour sonde de température
MT18/9	–	–	–	–	Modulträger zur Aufnahme von 16/8 Mod. Module rack for 16/8 modules Platine pour 16/8 modules
PSD24Ex	–	–	–	–	24-VDC-Netzteil 24 VDC power supply module Alimentation 24 VDC
PPSA230Ex/ PPSA115Ex	–	–	–	–	AC/DC Vorschaltteil AC/DC upstream device Ballast AC/DC

1) speisend/source mode/avec fonction d'alimentation 2) nicht speisend/sink mode/sans fonction d'alimentation

Erforderliche Systemkomponenten

Um ein System aufzubauen, sind mindestens folgende Komponenten notwendig:

- 1 x MT9-Modulträger ohne Redundanzfunktion oder
- 1 x MT18-Modulträger mit Redundanzfunktion
- 1 x PSD24Ex Netzteil 24 VDC
- 1 x GDP1,5 PROFIBUS-DP-Gateway und je nach Anwendung binäre oder analoge Ein- und Ausgangsmodule aus dem Typenspektrum:

- | | |
|---------|--|
| DM80Ex | binäres Ein-/Ausgangsmodul zum Anschluss von NAMUR-Sensoren und Kleinleistungs-Aktuatoren |
| DF20Ex | digitales Eingangsmodul zur Impulszählung binärer Eingangssignale oder zur Frequenzmessung von binären Impulsfolgen von NAMUR-Sensoren |
| DI40EX | binäres Eingangsmodul zum Anschluss von NAMUR-Sensoren oder mechanischen Kontakten |
| DO40Ex | binäres Ausgangsmodul zum Anschluss von EEx i-Magnetventilen < 0,5 W |
| AI40Ex | analoges Eingangsmodul zum Anschluss von 2-Leiter-Transmittern |
| AI41Ex | analoges Eingangsmodul zum Anschluss von 4-Leiter-Transmittern |
| AI43Ex | analoges Eingangsmodul zum Anschluss von Potentiometern |
| AO40Ex | analoges Ausgangsmodul zum Anschluss von analogen Aktuatoren |
| AIH40Ex | analoges Eingangsmodul zum Anschluss von 2-Leiter-Transmittern mit HART®-Funktionalität |
| AIH41Ex | analoges Eingangsmodul zum Anschluss von 4-Leiter-Transmittern mit HART®-Funktionalität |
| AOH40Ex | analoges Ausgangsmodul zum Anschluss von analogen Aktuatoren mit HART®-Funktionalität |
| TI40Ex | analoges Eingangsmodul zum Anschluss von Temperaturfühlern |

Parts needed for system construction

To set up a system, the following components are needed:

- 1 x MT9 module rack without redundancy function or
- 1 x MT18 module rack with redundancy function
- 1 x PSD24Ex power supply 24 VDC
- 1 x GDP1,5 PROFIBUS-DP gateway and - depending on the specific application requirements - a choice of binary or analogue input and output modules:

- | | |
|---------|--|
| DM80Ex | binary input/output module for connection of NAMUR sensors and low power actuators |
| DF20Ex | digital counter module for pulse counting of binary input signals or for frequency measurements of binary pulse sequences of NAMUR sensors |
| DI40EX | binary input module for connection of NAMUR sensors or mechanical contacts |
| DO40Ex | binary output module for connection of EEx i solenoids of < 0.5 W |
| AI40Ex | analogue input module for connection of 2-wire transmitters |
| AI41Ex | analogue input module for connection of 4-wire transmitters |
| AI43Ex | analogue input module for connection of potentiometers |
| AO40Ex | analogue output module for connection of analogue actuators |
| AIH40Ex | analogue input module for connection of 2-wire transmitters with HART® functionality |
| AIH41Ex | analogue input module for connection of 4-wire transmitters with HART® functionality |
| AOH40Ex | analogue output module for connection of analogue actuators with HART® functionality |
| TI40Ex | analogue input module for connection of temperature detectors |

Composants nécessaires

Les composants suivants sont indispensables à la réalisation d'un système:

- 1x MT9 sans possibilité de redondance ou
- 1x platine MT18 avec possibilité de redondance
- 1x PSD24EX, alimentation 24 VDC
- 1x GDP1.5, passerelle PROFIBUS-DP suivant les applications, des modules d'E/S binaires ou analogiques:

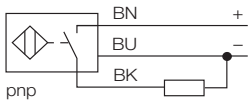
- | | |
|---------|--|
| DM80Ex | Module d'E/S binaires pour le raccordement de détecteurs NAMUR et actionneurs faible puissance |
| DF20Ex | Module d'entrée digitale pour le comptage d'impulsions de signaux d'entrée binaires ou pour la mesure de fréquences d'un train d'impulsions binaires de détecteurs NAMUR |
| DI40EX | Module d'entrée binaire pour le raccordement de détecteurs NAMUR ou de contacts mécaniques |
| DO40Ex | Module de sortie binaire pour piloter des électrovannes EExi < 0,5W |
| AI40Ex | module d'entrée analogique pour le raccordement de transmetteurs 2 fils |
| AI41Ex | module d'entrée analogique pour le raccordement de transmetteurs 4 fils |
| AI43Ex | module d'entrée analogique pour le raccordement de potentiomètres |
| AO40EX | Module de sorties analogiques, pour le raccordement d'actionneurs analogiques |
| AIH40Ex | Module d'entrées analogiques, pour le raccordement de transmetteurs 2-fils avec fonctionnalité HART® |
| AIH41Ex | Module d'entrées analogiques, pour le raccordement de transmetteurs 4-fils avec fonctionnalité HART® |
| AOH40Ex | Module de sortie analogique pour le raccordement d'actionneurs analogiques |
| TI40Ex | Module d'entrées analogiques, pour le raccordement de sondes de température |

Anschlussbilder – Sensortechnik

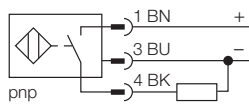
Wiring diagrams – Sensors

Schémas de raccordement – Détecteurs

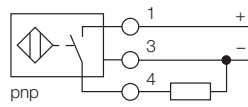
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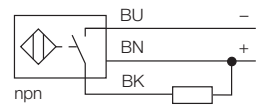
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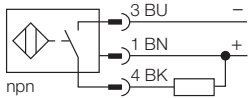
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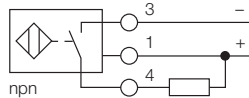
(S004)



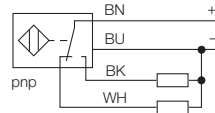
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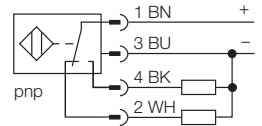
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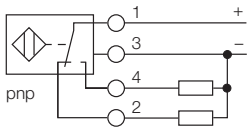
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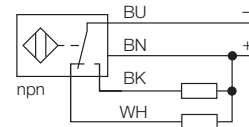
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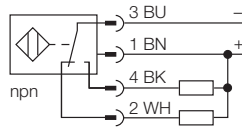
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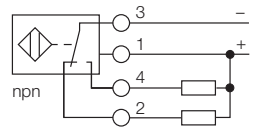
(S010)



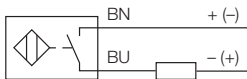
(S011)



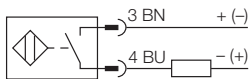
(S012)



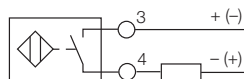
(S013)



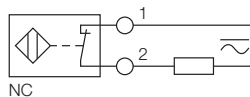
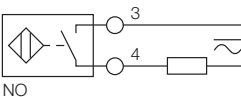
(S014)



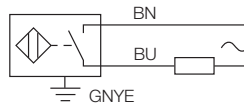
(S015)



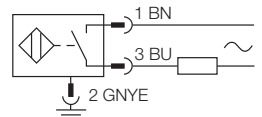
(S016)



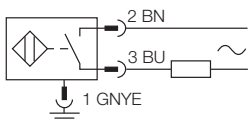
(S017)



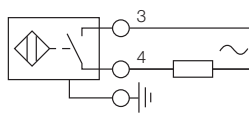
(S018)



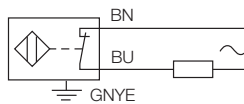
(S019)



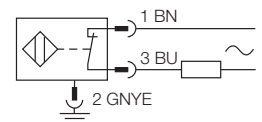
(S020)



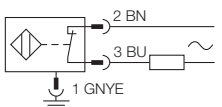
(S021)



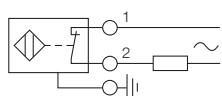
(S022)



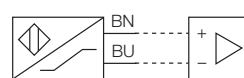
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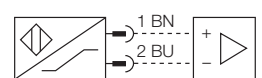
(S024)



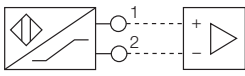
(S025)



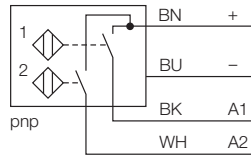
(S026)



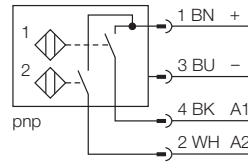
(S027)



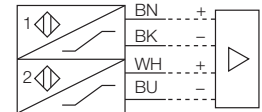
(S028)



(S029)



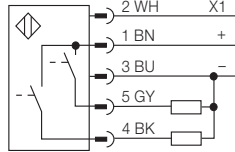
(S030)



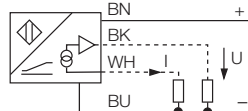
(S031)



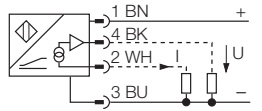
(S032)



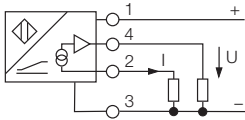
(S033)



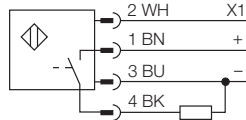
(S034)



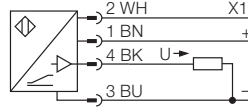
(S035)



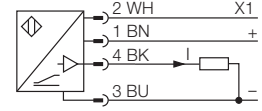
(S036)



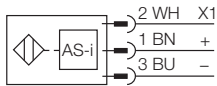
(S037)



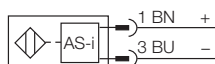
(S038)



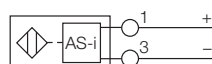
(S039)



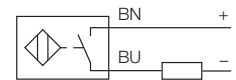
(S040)



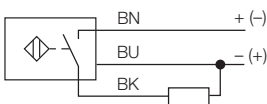
(S041)



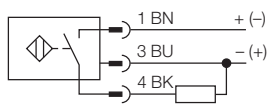
(S042)



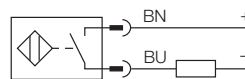
(S043)



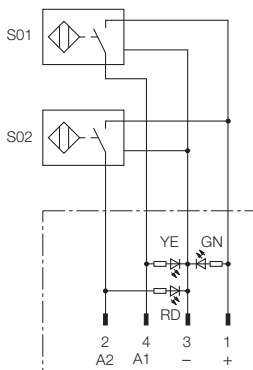
(S044)



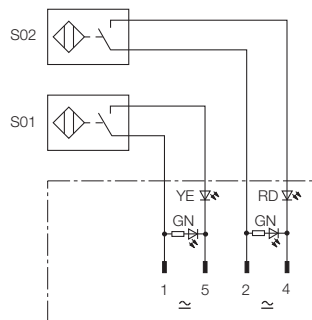
(S045)



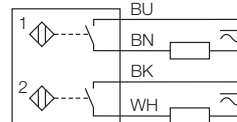
(S046)



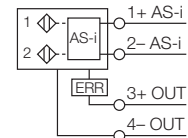
(S047)



(S048)



(S049)

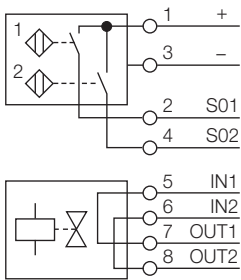


Anschlussbilder – Sensortechnik

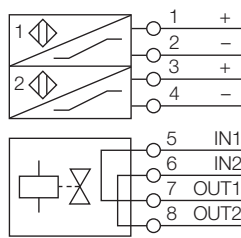
Wiring diagrams – Sensors

Schémas de raccordement – Détecteurs

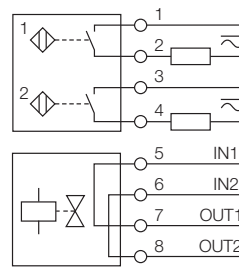
(S050)



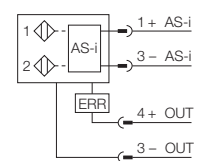
(S051)



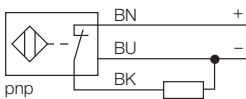
(S052)



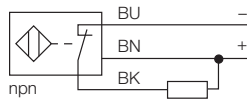
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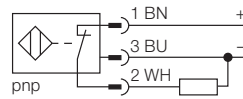
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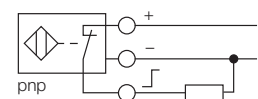
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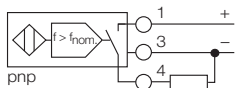
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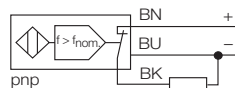
(S057)



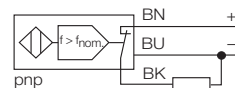
(S058)



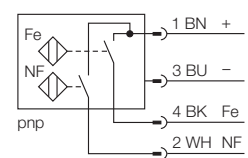
(S059)



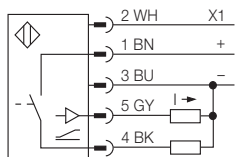
(S060)



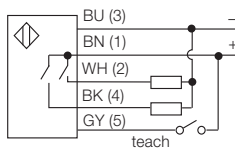
(S061)



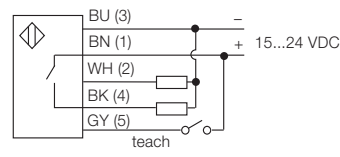
(S062)



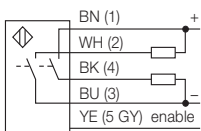
(S063)



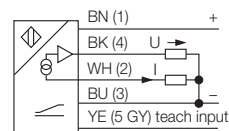
(S064)



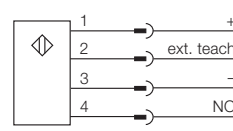
(S065)



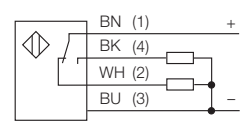
(S066)



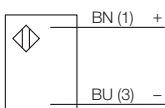
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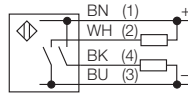
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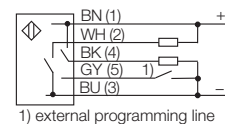
(S069)



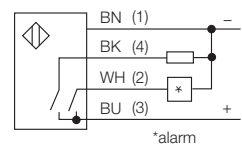
(S070)



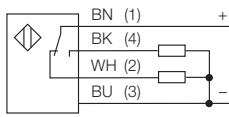
(S071)



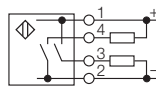
1) external programming line



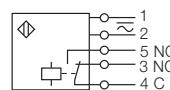
(S072)



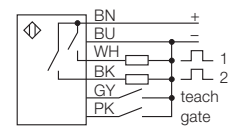
(S073)



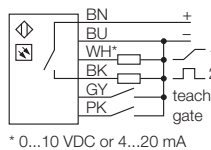
(S074)



(S075)

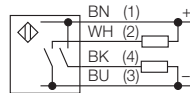


(S076)

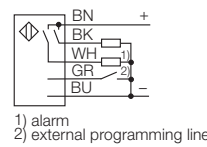


* 0...10 VDC or 4...20 mA

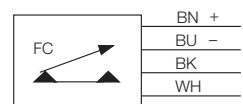
(S077)



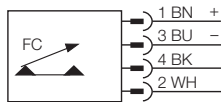
(S078)



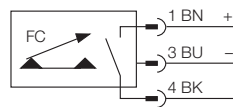
(S079)



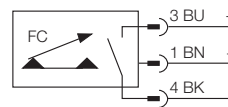
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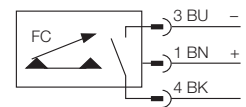
(S081)



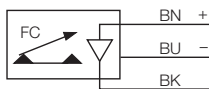
(S082)



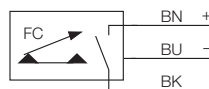
(S083)



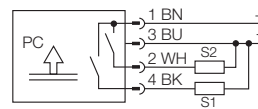
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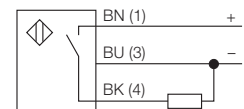
(S085)



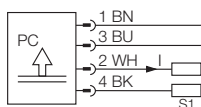
(S086)



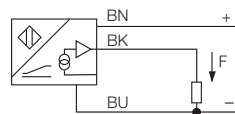
(S087)



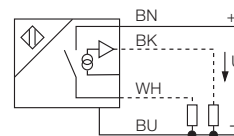
(S088)



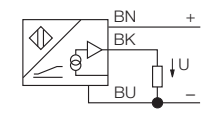
(S089)



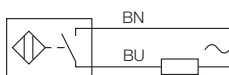
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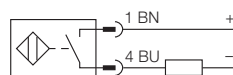
(S091)



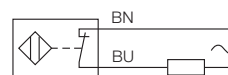
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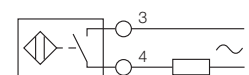
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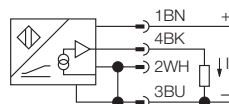
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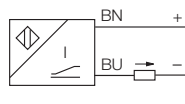
(S095)



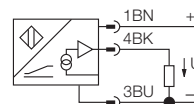
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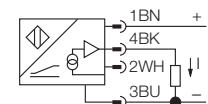
(S097)



(S098)



(S099)

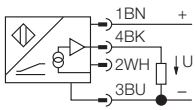


Anschlussbilder – Sensortechnik

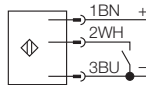
Wiring diagrams – Sensors

Schémas de raccordement – Détecteurs

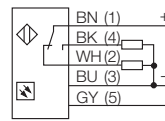
(S100)



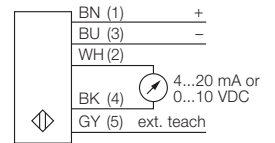
(S101)



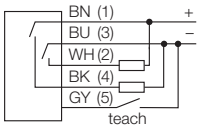
(S102)



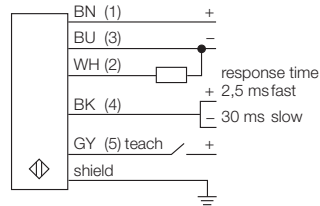
(S103)



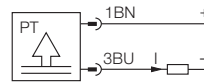
(S104)



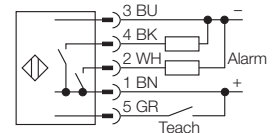
(S105)



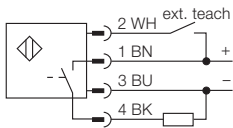
(S106)



(S107)



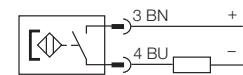
(S108)



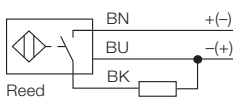
(S109)

Conductor colours	Conn. pin design	
black	1	Common
red	2	Power +
green	3	Z +
brown	4	Z -
blue	5	A +
orange	6	A -
yellow	7	B +
white	8	Burst input
violet	9	Zero input
grey	10	B -

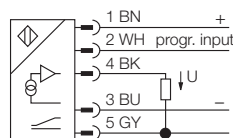
(S110)



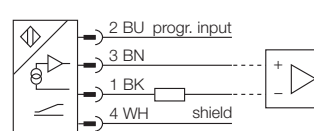
(S111)



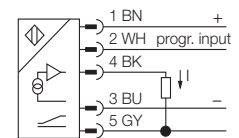
(S112)



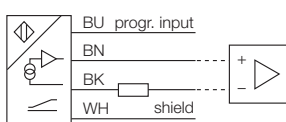
(S113)



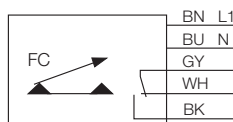
(S114)



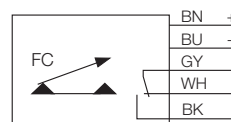
(S115)



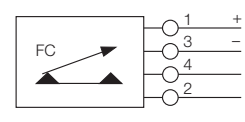
(S116)



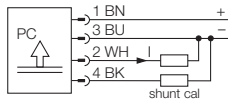
(S117)



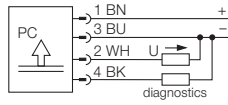
(S118)



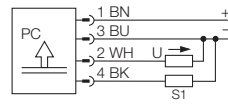
(S119)



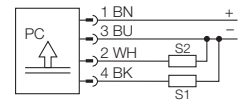
(S120)



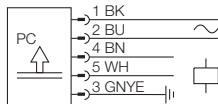
(S121)



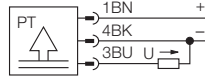
(S122)



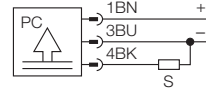
(S123)



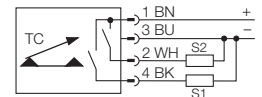
(S124)



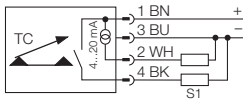
(S125)



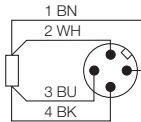
(S126)



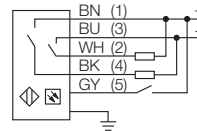
(S127)



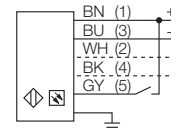
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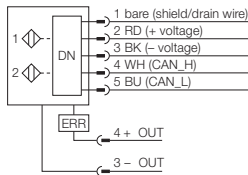
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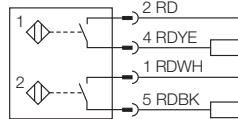
(S130)



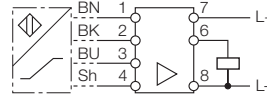
(S131)



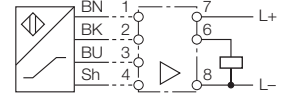
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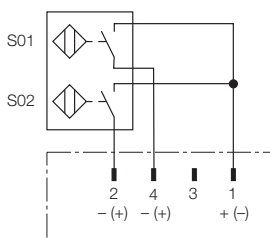
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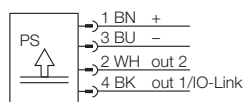
(S134)



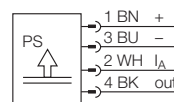
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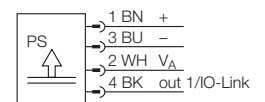
(S136)



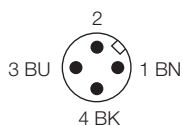
(S137)



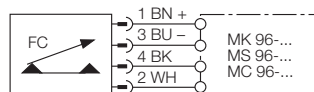
(S138)



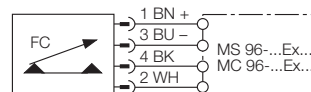
(S139)



(S140)



(S141)



(S142)

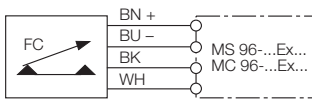


Anschlussbilder – Sensortechnik

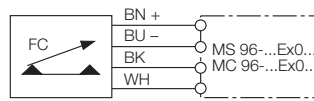
Wiring diagrams – Sensors

Schémas de raccordement – Détecteurs

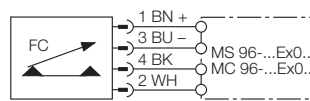
(S143)



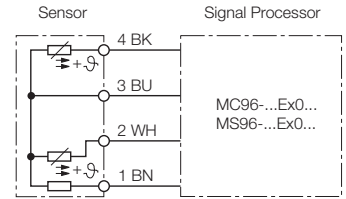
(S144)



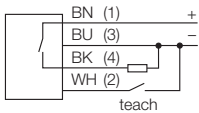
(S145)



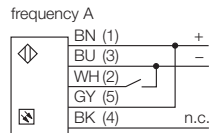
(S146)



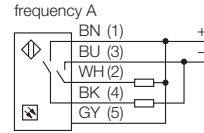
(S147)



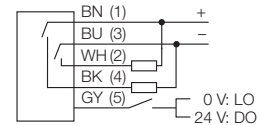
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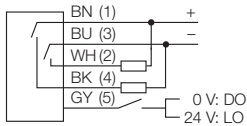
(S149)



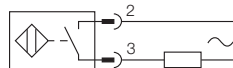
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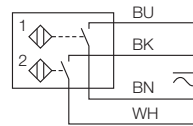
(S151)



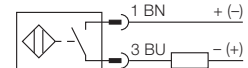
(S152)



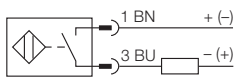
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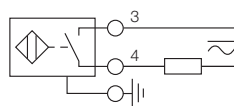
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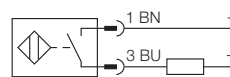
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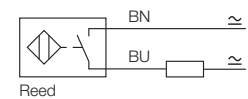
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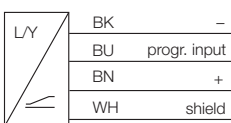
(S157)



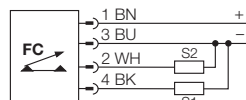
(S158)



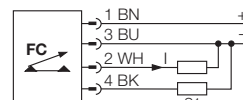
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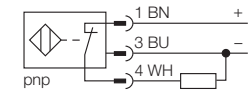
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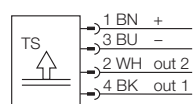
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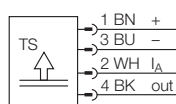
(S162)



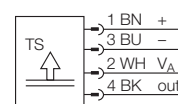
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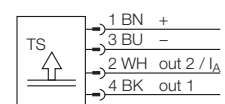
(S164)



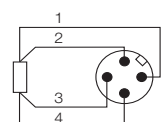
(S165)



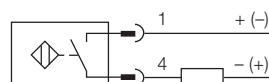
(S166)



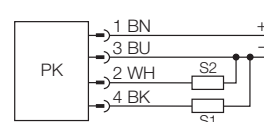
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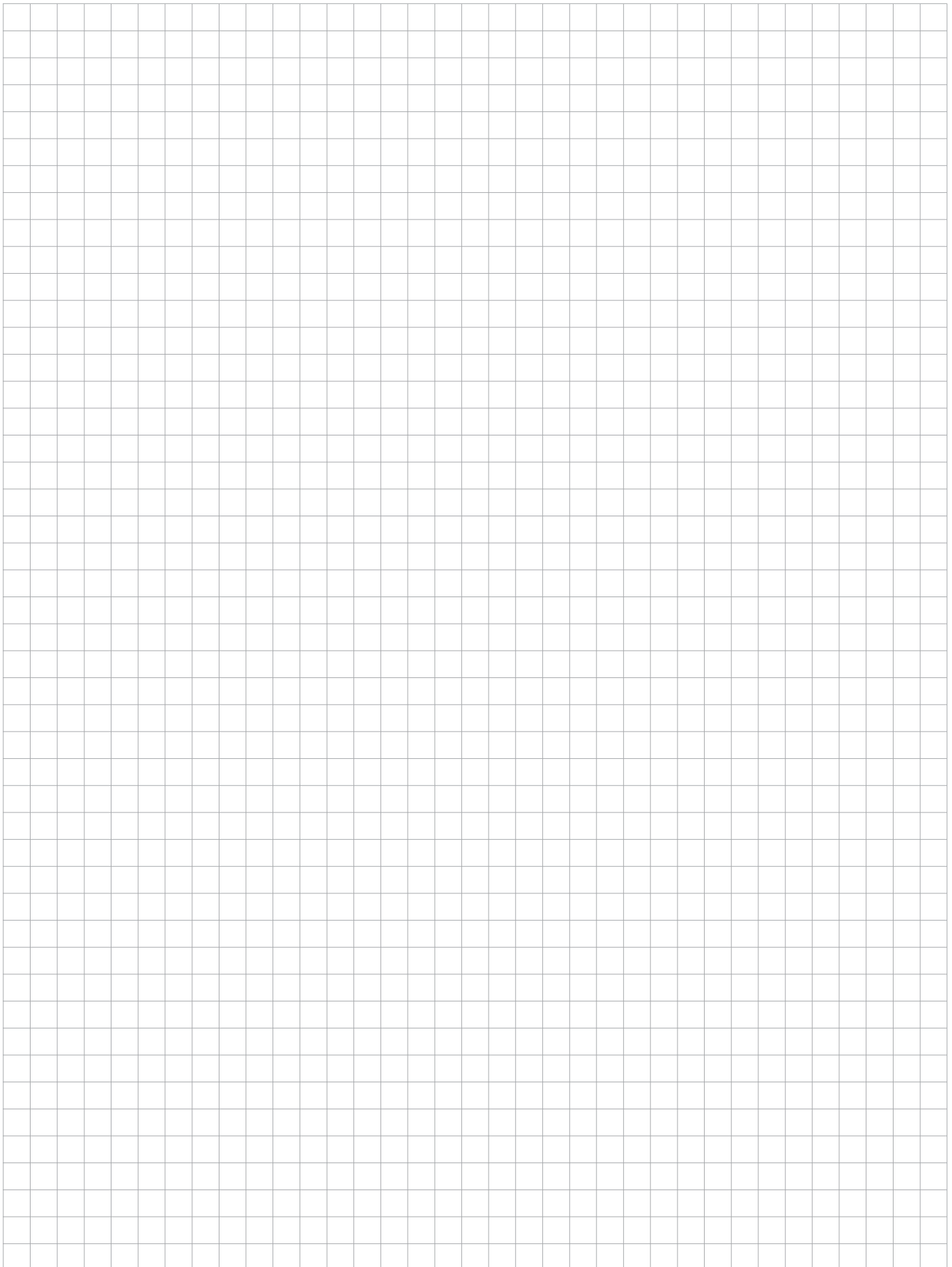


(S179)



(S182)



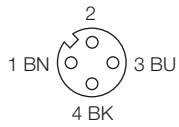


Anschlussbilder – Steckverbindersysteme und Verteilerbausteine

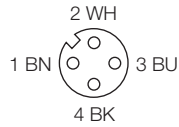
Wiring diagrams – Connector Systems and Multiboxes

Schémas de raccordement – Systèmes de connexion et boîtiers de distribution

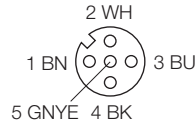
(C001)



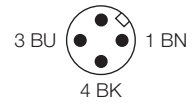
(C002)



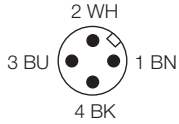
(C003)



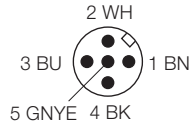
(C004)



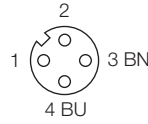
(C005)



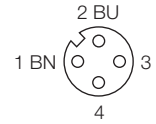
(C006)



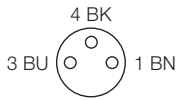
(C007)



(C008)



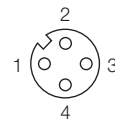
(C009)



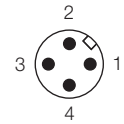
(C010)



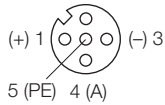
(C011)



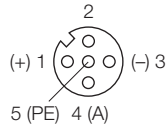
(C012)



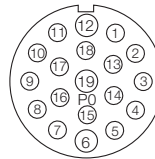
(C013)



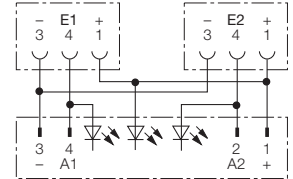
(C014)



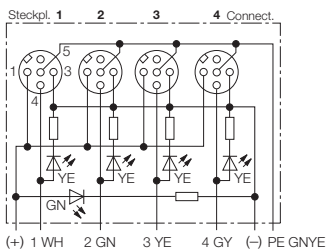
(C015)



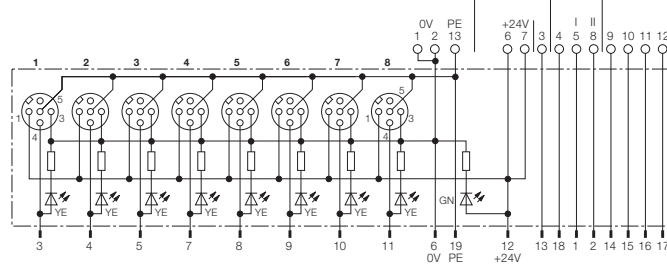
(C016)



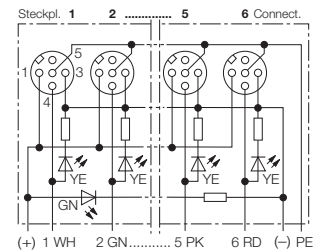
(C017)



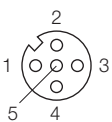
(C018)



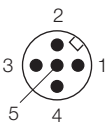
(C019)



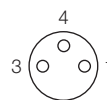
(C020)



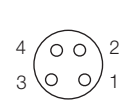
(C021)



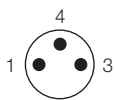
(C022)



(C023)



(C024)



(C025)



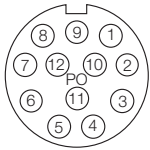
(C026)



(C027)



(C028)



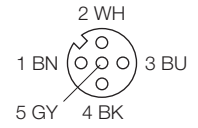
(C029)



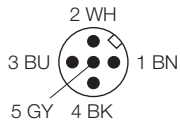
(C030)



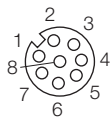
(C031)



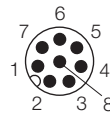
(C032)



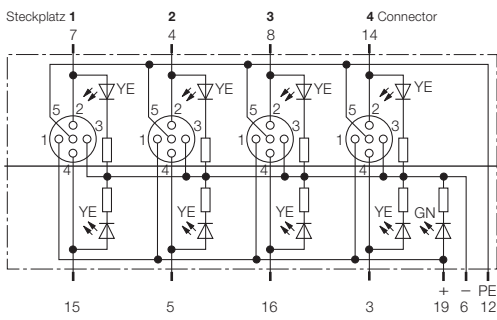
(C033)



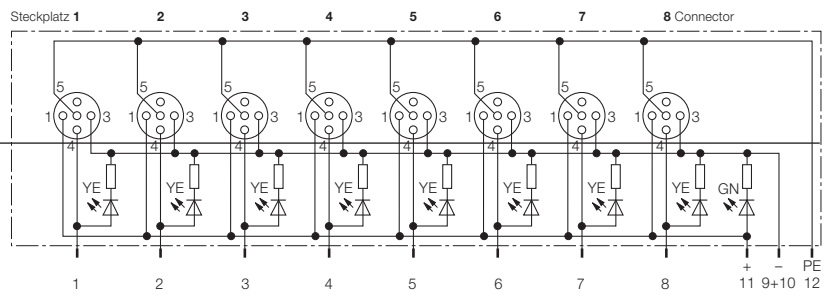
(C034)



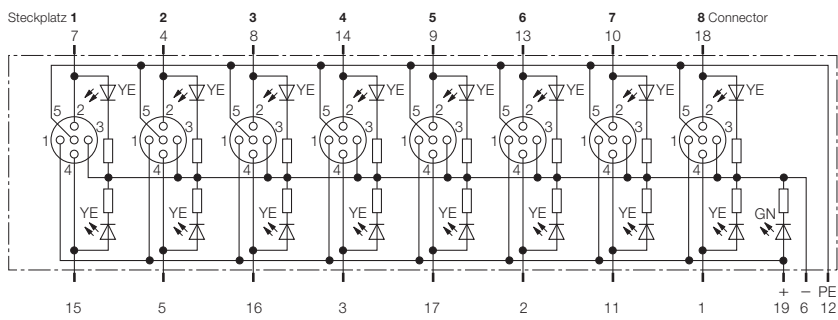
(C035)



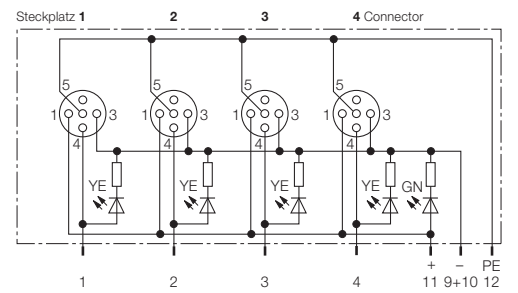
(C036)



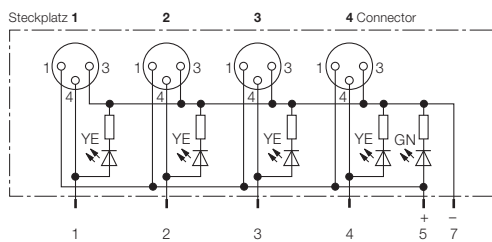
(C037)



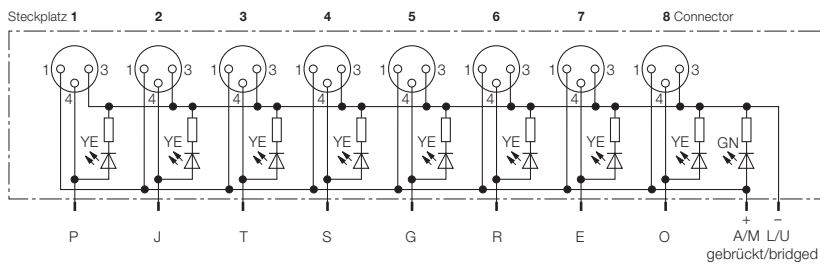
(C038)



(C039)



(C040)

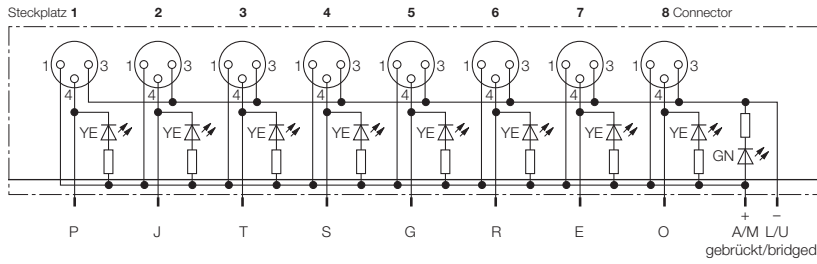


Anschlussbilder – Steckverbindersysteme und Verteilerbausteine

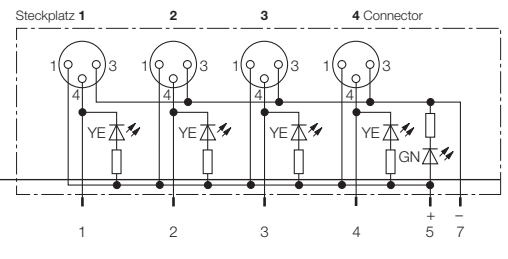
Wiring diagrams – Connector Systems and Multiboxes

Schémas de raccordement – Systèmes de connexion et boîtiers de distribution

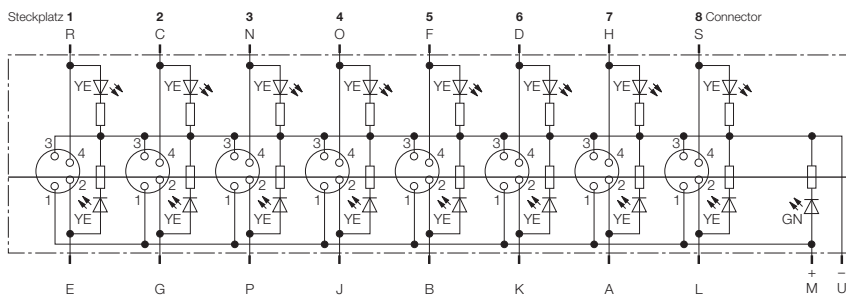
(C041)



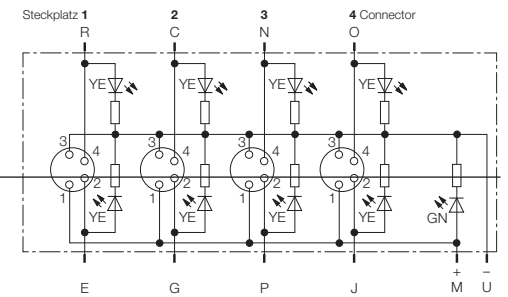
(C042)



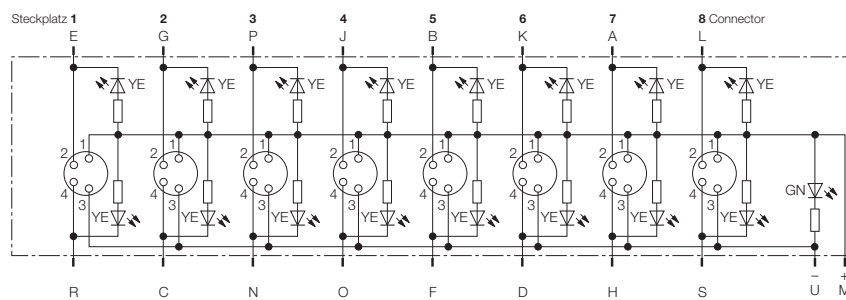
(C043)



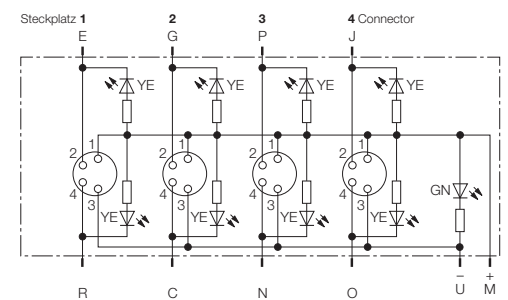
(C044)



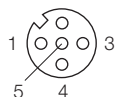
(C045)



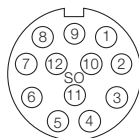
(C046)



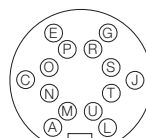
(C047)



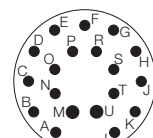
(C048)



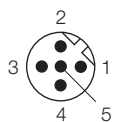
(C049)



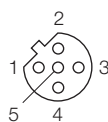
(C050)



(C051)



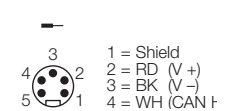
(C052)



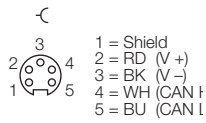
(C053)



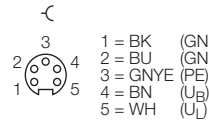
(C054)



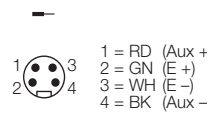
(C055)



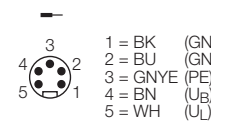
(C056)



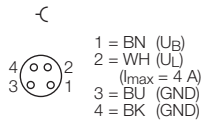
(C057)



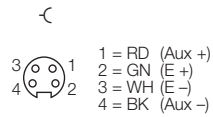
(C058)



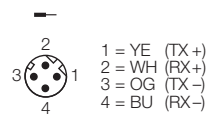
(C059)



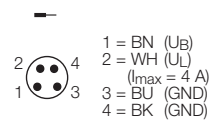
(C060)



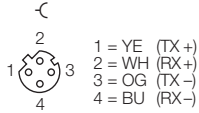
(C061)



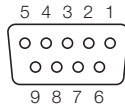
(C062)



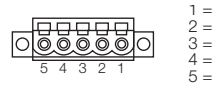
(C063)



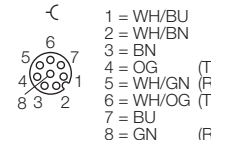
(C064)



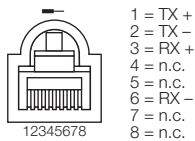
(C065)



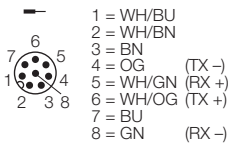
(C066)



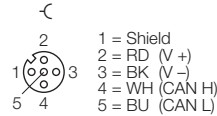
(C067)



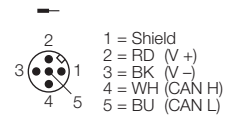
(C068)



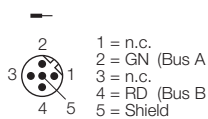
(C069)



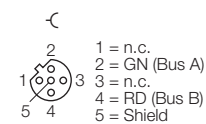
(C070)



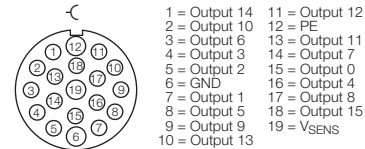
(C071)



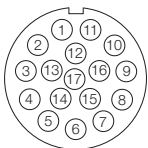
(C072)



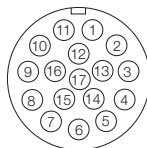
(C073)



(C074)



(C075)



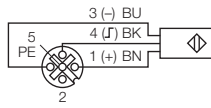
Anschlussbilder

Wiring diagrams

Schémas de raccordement

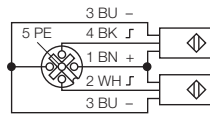
(F001)

3-wire pnp sensor



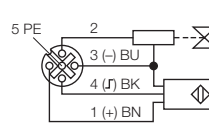
(F002)

3-wire pnp sensor



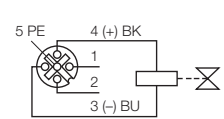
(F003)

3-wire pnp sensor
DC actuator



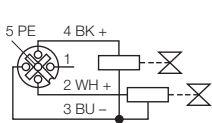
(F004)

DC actuator

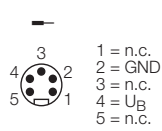


(F005)

DC actuator



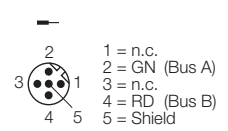
(F006)



(F007)



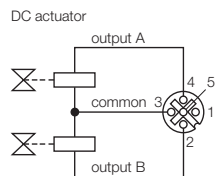
(F008)



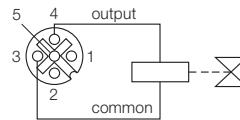
(F009)



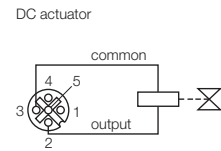
(F010)



(F011)

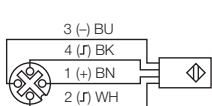


(F012)

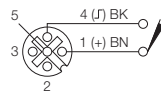


(F013)

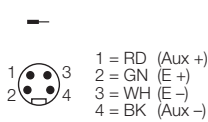
4-wire pnp sensor



(F014)



(F015)

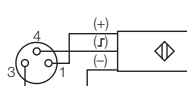


(F016)



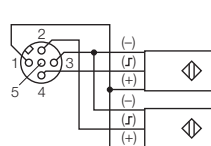
(F017)

3-wire pnp sensor



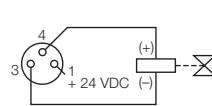
(F018)

3-wire pnp sensor



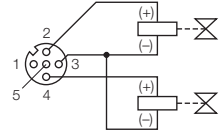
(F019)

DC actuator

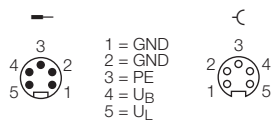


(F020)

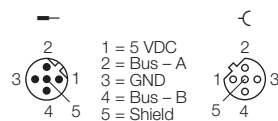
DC actuator



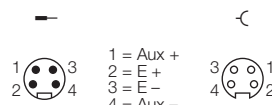
(F021)



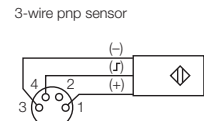
(F022)



(F023)

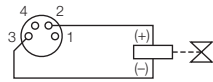


(F024)



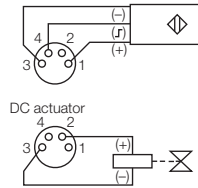
(F025)

DC actuator



(F026)

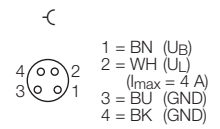
3-wire pnp sensor



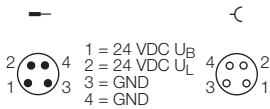
(F027)



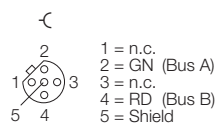
(F028)



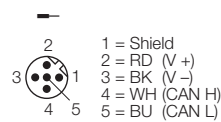
(F029)



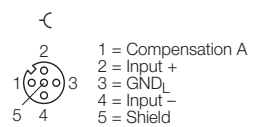
(F030)



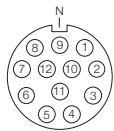
(F031)



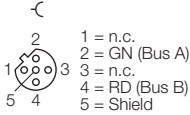
(F032)



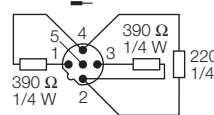
(F033)



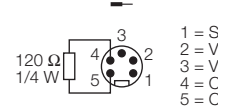
(F034)



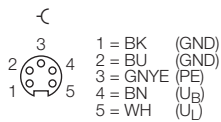
(F035)



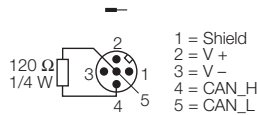
(F036)



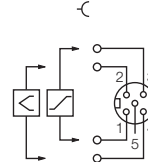
(F037)



(F038)



(F039)



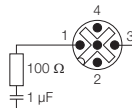
(F040)



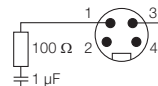
(F041)



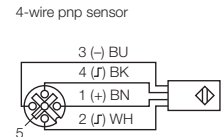
(F042)



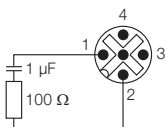
(F043)



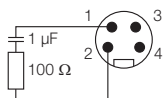
(F044)



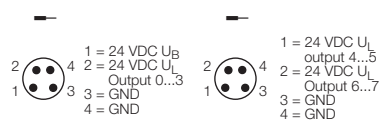
(F045)



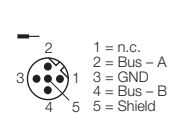
(F046)



(F047)



(F048)



Anschlussbilder Wiring diagrams Schémas de raccordement

(F049)



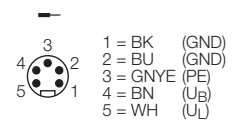
(F050)



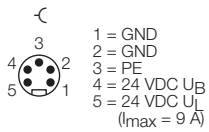
(F051)



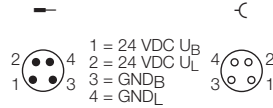
(F052)



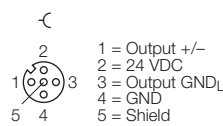
(F053)



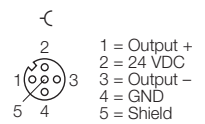
(F054)



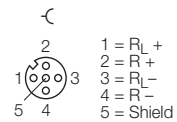
(F055)



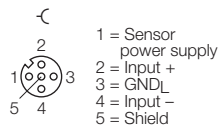
(F056)



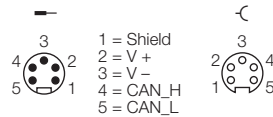
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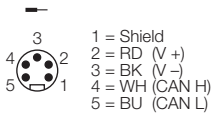
(F058)



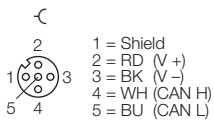
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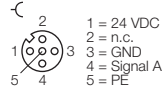
(F060)



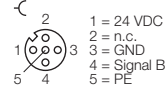
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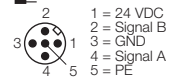
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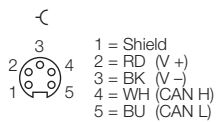
(F063)



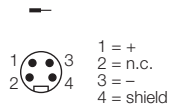
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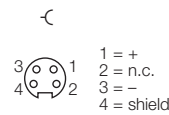
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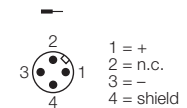
(F066)



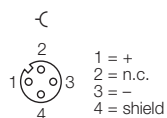
(F067)



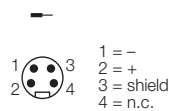
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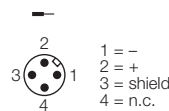
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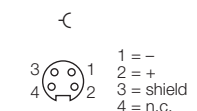
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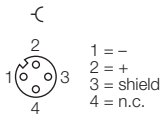
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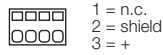
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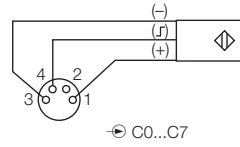
(F073)



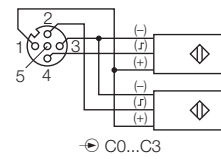
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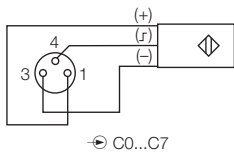
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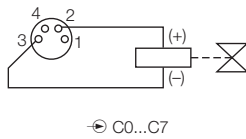
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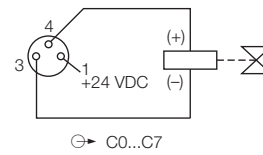
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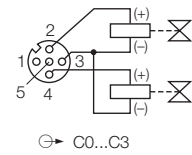
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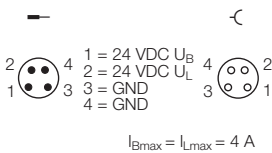
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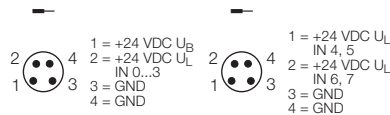
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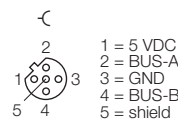
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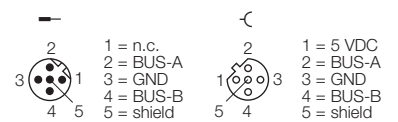
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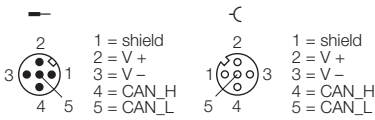
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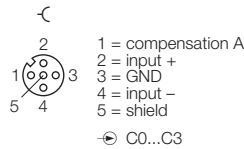
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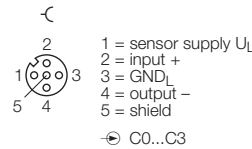
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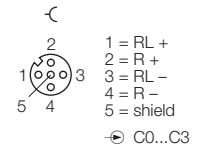
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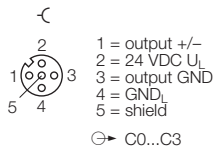
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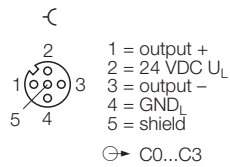
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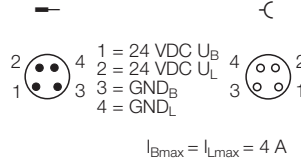
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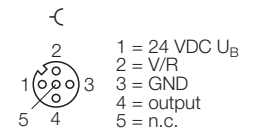
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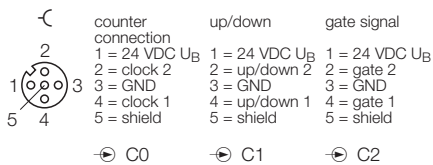
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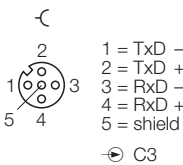
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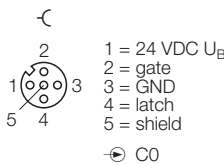
(F093)



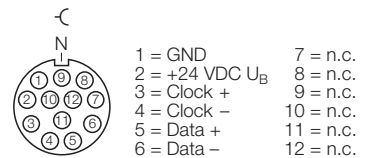
(F094)



(F095)



(F096)

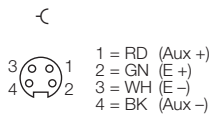


Anschlussbilder

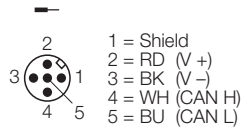
Wiring diagrams

Schémas de raccordement

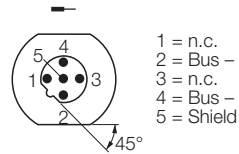
(F097)



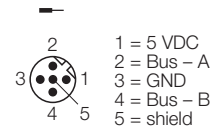
(F098)



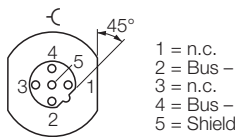
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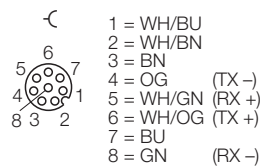
(F100)



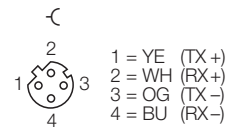
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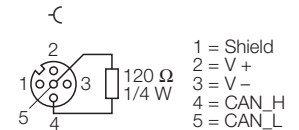
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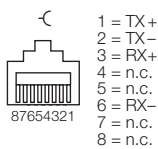
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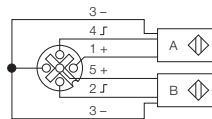
(F104)



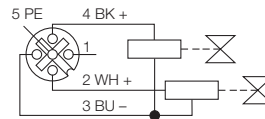
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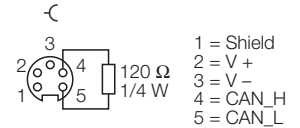
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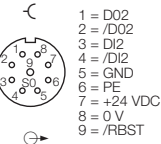
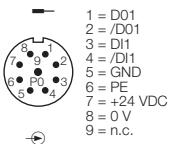
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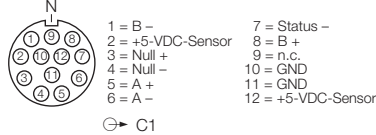
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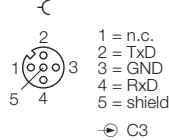
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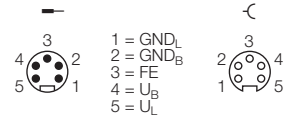
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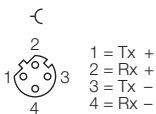
(F111)



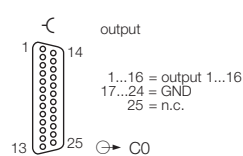
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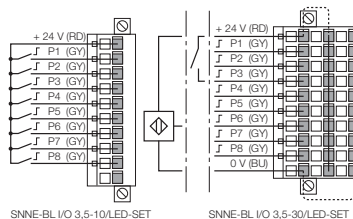
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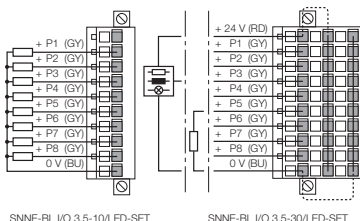
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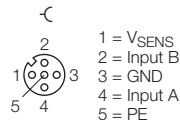
(F122)



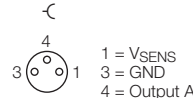
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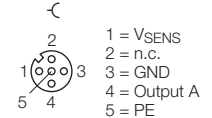
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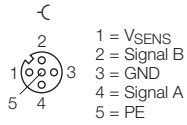
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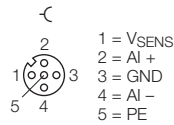
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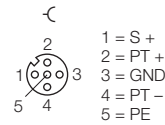
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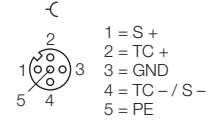
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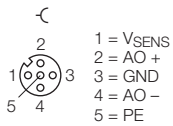
(F167)



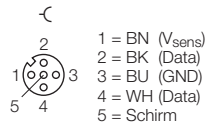
(F170)



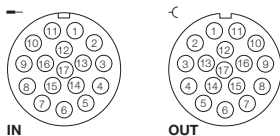
(F172)



(F185)

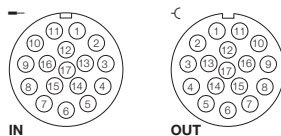


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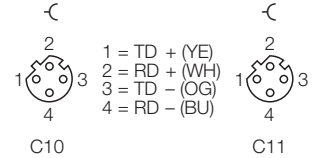
M23 round connector, 17-pole		
IN	OUT	
1	1	0 V, U _B
2	2	0 V, U _L
3	3	+24 V, U _L
4	4	+24 V, U _B
5	5	PE
6	6	B-line
7	7	
8	8	
9	9	
10	10	
11	11	A-line
12	12	
13	13	
14	14	
15	15	reserved
16	16	reserved
17	17	

(F251)

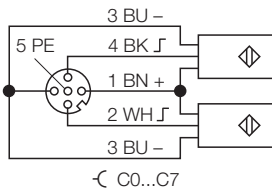


M23 round connector, 17-pole		
IN	OUT	
1	1	GND, U _B
2	2	GND, U _L
3	3	+24 V, U _L
4	4	+24 V, U _B
5	5	PE
6	6	B-line
7	7	
8	8	
9	9	
10	10	
11	11	A-line
12	12	
13	13	
14	14	
15	15	reserved
16	16	reserved
17	17	

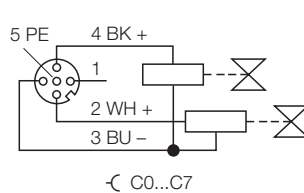
(F252)



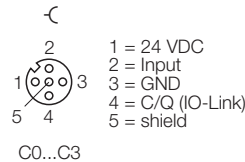
(F253)



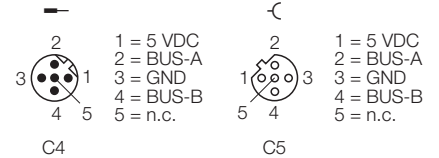
(F254)



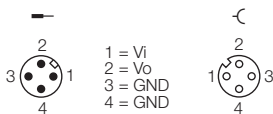
(F255)



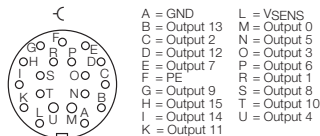
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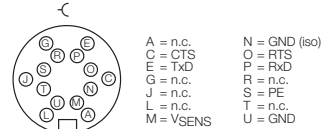
(F257)



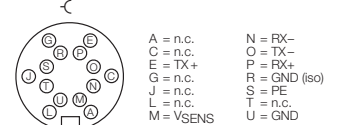
(F258)



(F259)



(F260)



Hinweise zum Explosionsschutz

Guidelines on explosion protection

Conseils de protection contre les explosions

Explosionsschutz durch Zündschutzart „Eigensicherheit“

In vielen Bereichen der Industrie wird mit Gasen, Dämpfen, Nebeln und Stäuben gearbeitet; in anderen Bereichen entstehen diese brennbaren Stoffe während der Verarbeitung. Dabei kann es – bedingt durch die umgebende Luft und einer Zündquelle – zu Explosionen kommen. Um dies und alle daraus resultierenden Sach-, Umwelt- und Personenschäden zu vermeiden, wurden Explosionsschutzmaßnahmen entwickelt.

Die in dem vorliegenden Katalog dargestellten explosionsgeschützten Geräte entsprechen hauptsächlich der Zündschutzart „Eigensicherheit“, d. h., die Energie eines Stromkreises wird soweit reduziert, dass sich durch Funkenbildung kein Gemisch zünden kann. Gegenüber anderen Schutzarten hat die Zündschutzart „Eigensicherheit“ den Vorteil, dass Stromkreise während des Betriebes unter Spannung geöffnet und verändert werden dürfen.

Nachfolgend werden einige **allgemeine Kurzhinweise zum Explosionsschutz** dargestellt. Gern senden wir Ihnen ausführliche Unterlagen zu.

Explosionsschutz in den Mitgliedsstaaten der Europäischen Union

Der Explosionsschutz in der EU ist 1994 durch die Rahmenrichtlinie 94/9/EG, der sogenannten ATEX, einheitlich geregelt worden.

Ab 01.07.2003 müssen alle verkaufsfähigen Geräte den Anforderungen der ATEX entsprechen und bescheinigt sein. Errichtete Anlagen haben Bestandsschutz.

Das Zonenkonzept

Grundlage des Zonenkonzeptes ist der Grad der Wahrscheinlichkeit für das Auftreten einer gefährlichen explosionsfähigen Atmosphäre (EN 60079-10, EN 1127).

Explosion protection based on protection type „intrinsic Safety“

In many areas of industry, it is a basic requirement to handle gases, vapours, mists or dust; in other fields these flammable substances are generated during processing. If these substances are mixed with air and come into contact with an ignition source, there is a risk of an explosion. In order to prevent an explosion and all subsequent damages to personnel, material and environment, explosion protection measures have been developed.

The explosion protected devices presented in this catalogue, mainly accord to protection type „intrinsic safety“, i.e. the energy within the circuit is limited to such an extent that sparks or arcs are incapable of igniting an explosive atmosphere. Compared to other protection methods, „intrinsic safety“ has the advantage that it is possible to service and wire live circuits.

Following please find some **general guidelines on explosion protection.**

We will be pleased to send you more detailed information.

Explosion protection in the member states of the European Union

In 1994, explosion protection regulations within the European Union were harmonised by the framework directive 94/9/EC, the so-called ATEX directive.

From 1 July 2003 on, all devices to be placed on the market must meet the requirements of ATEX and be certified accordingly. Continuance of existing installations is protected.

The Zone Classification Concept

The likelihood of the occurrence of a dangerous explosive atmosphere (EN 60079-10, EN 1127) is the basis for zone classification.

Protection contre les explosions en mode de protection “sécurité intrinsèque”

Beaucoup de secteurs de l'industrie travaillent au milieu de gaz, de vapeurs, de brume et de poussières; dans d'autres secteurs, ces matières inflammables n'apparaissent que pendant le processus de traitement. Ceci peut entraîner – avec l'oxygène contenu dans l'air ambiant et une source d'inflammation – des explosions. Afin d'éviter ceci et toutes les conséquences sur la sécurité et l'environnement, il a été prévu des mesures de protection contre les explosions.

Les appareils protégés contre les explosions repris dans ce catalogue sont conformes au mode de protection “sécurité intrinsèque”, c'est à dire que l'énergie dans un circuit électrique est tellement faible qu'une étincelle éventuelle n'aurait pas une puissance suffisante pour enflammer une atmosphère explosible. Contrairement aux autres modes de protection, la “sécurité intrinsèque” présente l'avantage de pouvoir intervenir et d'échanger des composants sous tension.

Veuillez trouver ci-dessous quelques **conseils généraux sur la protection contre les explosions**. Des documentations détaillées sont disponibles sur demande.

La protection contre les explosions dans les états-membres de l'union européenne

La protection contre les explosions dans l'union européenne a été uniformisée en 1994 par la directive-cadre 94/9/CE, appelée ATEX.

A compter du 2003-07-01 tous les appareils devront être homologués et remplir les exigences de l'ATEX. Les annexes dressées sont des fichiers protégés.

Répartition des zones

La répartition des zones est définie par le degré de probabilité de l'apparition d'une atmosphère explosible (EN 60079-10, EN 1127).

Unterschieden wird zwischen Zone 0 bis 2 (Atmosphäre durch Gase, Nebel und Dämpfe) und Zone 20 bis 22 (Atmosphäre durch Stäube):

Zone 0: Gefährliche Atmosphäre durch Gase ständig, häufig oder langfristig vorhanden.

Zone 1: Gefährliche Atmosphäre gelegentlich vorhanden.

Zone 2: Gefährliche Atmosphäre selten und dann kurzfristig vorhanden.

Zone 20: Gefährliche Atmosphäre durch eine Staubwolke ständig, langfristig oder häufig vorhanden – eine Staubablagerung allein ist keine Zone 20.

Zone 21: Bei normalem Betrieb kann eine Staubwolke in Luft gelegentlich auftreten.

Zone 22: Bei normalem Betrieb ist nicht damit zu rechnen, dass eine Staubwolke auftritt; andernfalls nur kurzfristig

Während das Zonenkonzept für Gase innerhalb der EU bereits Bestand hatte, sind die EU-weiten Zonen für Staub neu. Deshalb ist insbesondere für Anwender in Staaten, für die bisher noch keine Staubzonen galten, eine erhöhte Sensibilität bei der Zoneneinteilung geboten.

Kennzeichnung

Jedes Gerät verfügt über eine eindeutige Kennzeichnung für den Explosionsschutz. Unterschieden wird dabei zwischen **eigensicheren Betriebsmittel**, die direkt im explosionsgefährdeten Bereich eingesetzt werden dürfen, und **zugehörigen Betriebsmitteln**, welche die Schnittstelle zum explosionsgefährdeten Bereich darstellen.

Nach ATEX gibt eine neue Kennzeichnung den Einsatz, das konstruktive Sicherheitsniveau des Betriebsmittels und die Stoffgruppe an. Daraus lässt sich dann der Zoneneinsatz ableiten:

- I** Bergbau u. deren Übertageeinrichtung
- II** alle anderen Bereiche (z.B. Chemie)
- 1** sehr hohe Sicherheit – Zone 0 / 20
- 2** hohe Sicherheit – Zone 1 / 21
- 3** normale Sicherheit – Zone 2 / 22
- M1** vorhandene Ex-Atmosphäre (Grubengas, brennbare Stäube) – Bergbau
- M2** gelegentlich auftretende explosive Atmosphäre – Bergbau
- G** Ex-Schutz für gashaltige Atmosphäre
- D** Ex-Schutz für staubhaltige Atmosphäre

Classifications range from zones 0 to 2 (flammable gases, mists and vapours) to zones 20 to 22 (explosive atmospheres due to flammable dusts):

Zone 0: Dangerous atmospheres due to gases that are present continuously, frequently or for long periods

Zone 1: Dangerous atmospheres that are present occasionally

Zone 2: Occurrence of dangerous atmospheres is unlikely and for a short period only

Zone 20: Dangerous atmospheres due to dust clouds that are present continuously, frequently or for long periods – simple dust deposits do not constitute a zone 20 determination.

Zone 21: A dust cloud may occur occasionally during normal operation

Zone 22: It is unlikely that a dust cloud will occur during normal operation and if so, only for a short period.

Zone classifications for gases had previously been regulated within the European Union, whereas the ATEX classifications for combustible dusts are new. Therefore it is particularly important for installers in those states where, to date, zone divisions for combustible dusts did not yet apply, to pay special attention to these new zone definitions.

Marking

Every device for explosion protected areas must be clearly marked. In this context, one distinguishes between **intrinsically safe equipment** which may be installed directly in the explosion hazardous area and **associated apparatus** which can be regarded as the interface to the explosion hazardous area. According to ATEX, the new type of marking gives information about the equipment's constructional level of safety and the group definition. From these two indications the zone can be derived:

- I** mining and related installations above ground
- II** all other areas (e.g. chemical industry)
- 1** very high safety level – zones 0 / 20
- 2** high safety level – zones 1 / 21
- 3** normal safety level – zones 2 / 22
- M1** explosive atmosphere continuously present (firedamp, combustible dusts) – mining
- M2** explosive atmosphere present occasionally – mining
- G** explosion protection against gas
- D** explosion protection against dust

Une distinction est faite entre les zones 0 à 2 (atmosphère gaz, brumes et vapeurs) et les zones 20 à 22 (atmosphère poussièr):

Zone 0: atmosphère explosive par gaz présente d'une façon permanente, fréquente ou de longues périodes.

Zone 1: atmosphère explosive présente occasionnellement en condition de fonctionnement normal.

Zone 2: atmosphère explosive présente pendant une courte durée en condition de fonctionnement anormal.

Zone 20: atmosphère explosive par des nuages de poussière présente d'une façon permanente, fréquente ou pendant de longues périodes.

Zone 21: en fonctionnement normal un nuage de poussière peut se présenter occasionnellement dans l'air.

Zone 22: l'apparition d'un nuage de poussière peut apparaître en cas de fonctionnement anormal, et dans ce cas uniquement pendant une courte durée.

Tandis que la prise en compte des zones gaz existent déjà dans l'union européenne, les zones poussières en dehors de l'union européenne sont nouvelles. Voilà pourquoi des utilisateurs dans les états où, jusqu'à ce jour, les zones poussières n'étaient pas encore prises en compte doivent prêter attention à la répartition en zones.

Marquage

Chaque appareil est caractérisé par un marquage uniforme de protection contre les explosions. Une distinction est faite entre le **matériel électrique à sécurité intrinsèque** pouvant être installé directement dans la zone Ex, et le **matériel électrique associé** représentant l'interface à la zone explosive. Suivant la directive ATEX, un nouveau marquage indique l'utilisation, le niveau de sécurité constructif du matériel et le groupe de matière. Sur cette base on peut définir la zone d'utilisation:

- I** Utilisation en mines grisouteuses
- II** Industries de surface (p.ex. chimie)
- 1** niveau de protection très élevée – zone 0 / 20
- 2** niveau de protection élevée – zone 1 / 21
- 3** niveau de protection normal – zone 2 / 22
- M1** Niveau de protection très élevé en mines grisouteuses
- M2** Niveau de protection élevé en mines grisouteuses
- G** Protection Ex pour atmosphère gazeuse
- D** Protection Ex pour atmosphère poussièruse

Hinweise zum Explosionsschutz

Guidelines on explosion protection

Conseils de protection contre les explosions

„II 1 G“ ist ein Beispiel zur Kennzeichnung eigensicherer Betriebsmittel in gashaltiger Atmosphäre in der Chemie für Zone 0;
„II (1) G“ ist ein Beispiel für das zugehörige Betriebsmittel.

Weitere Auskunft zur Art des Schutzes gibt die Kennzeichnung nach CENELEC gemäß EN 60079-Off.

Die Einhaltung der Ex-Vorschriften kennzeichnet **Ex**. Eigensichere Betriebsmittel nach EN 60079-11 verfügen entweder über zwei unabhängige Schutzmaßnahmen **ia** oder nur über eine Schutzmaßnahme **ib**.

Der Einsatz im Bergbau unter Tage **I** und der restlichen Industrie **II** entspricht der Kennzeichnung nach ATEX.

Da nicht alle Stoffe die gleiche Zündenergie benötigen, sind diese in drei Gruppen aufgeteilt: **A** – „viel“ Energie, **B** – „mittlere“ Energie und **C** – „wenig“ Energie. Die jeweilige Einteilung eines Stoffes ist der einschlägigen Literatur zu entnehmen.

Heiße Geräteoberflächen können eine Zündquelle darstellen. Eigensichere Betriebsmittel werden dabei in 6 Temperaturklassen eingeteilt, wobei **T1** einer Oberflächentemperatur von 450 °C entspricht und **T6** einer Temperatur von 85 °C. Da zugehörige Betriebsmittel nicht im Ex-Bereich montiert werden, enthalten diese keine Temperaturangabe. Zusätzlich werden Klammern angewendet. Für **eigensichere** Betriebsmittel lautet die Kennzeichnung z. B. **Ex ia IIC T6** und für **zugehörige** Betriebsmittel **[Ex ia] IIC**. Neben dieser Kennzeichnung sind auch die relevanten elektrischen Daten angegeben wie Spannung, Strom, Leistung, Kapazität und Induktivität.

Dass ein Betriebsmittel einer Baumusterprüfung unterzogen wurde und damit für den Explosionsschutz eingesetzt werden darf, wird durch eine Prüfnummer dokumentiert. Diese besteht aus dem Kurzzeichen der Prüfstelle, gefolgt vom Jahr der Zulassung, dem Begriff ATEX für die Richtlinie 94/9/EG und einer internen Registrier-Nr. (z. B. PTB 97 ATEX 2128).

“II 1 G” is, for example, the appropriate marking for intrinsically safe equipment to be used in gaseous atmospheres in the chemical industry, zone 0;
“II (1) G” is, for example, the marking of associated equipment.

Further information on the type of protection is provided by marking to CENELEC according to EN 60079-Off.

Ex stands for compliance with regulations. Intrinsically safe equipment according to EN 60079-11 features two independent means of protection **ia** or one independent means of protection **ib**. According to ATEX, devices for underground mining are marked with **I** and for all other locations in which a potentially explosive atmosphere exists with **II**.

Based on the fact that not all materials require the same ignition energy, these are divided into three groups: **A** – a “high” level of energy, **B** – a “medium” level of energy, and **C** – a “low” level of energy. For detailed information on the different ignition energy of flammable materials please refer to related standards and literature.

The surface temperature of an apparatus can be an additional ignition source. Intrinsically safe equipment is divided into six temperature classes: e.g. **T1** accords to a surface temperature of 450 °C and **T6** to a temperature of 85 °C.

Associated equipment is not subject to temperature classification because it may not be installed in explosion hazardous areas. Brackets are an additional means of identification. For example: the marking of **intrinsically safe** equipment is **Ex ia IIC T6** and **associated** apparatus **[Ex ia] IIC**. Alongside this marking, the relevant electrical data such as current, voltage, power, capacitance and inductance are provided.

A test number shows that the equipment has been subjected to EC type examination. This number consists of the identification number of the authorised body, the year of issue, the term ATEX to signify accordance with directive 94/9/EC and an internal certificate number (e.g. PTB 97 ATEX 2128).

“II 1 G” est un exemple pour le marquage de matériels électriques à sécurité intrinsèque dans une atmosphère gazeuse dans la chimie, zone 0;
“II (1) G” est un exemple pour le matériel électrique associé.

Le marquage selon CENELEC suivant EN 60079-Off donne plus d'informations sur le type de protection.

Ex indique le respect des dispositions pour les zones Ex. Le matériel électrique à sécurité intrinsèque suivant EN 60079-11 dispose soit de deux mesures de protection indépendantes **ia** soit d'une seule mesure de protection **ib**. L'utilisation dans l'exploitation des mines souterraines **I** et l'industrie de surface **II** correspond au marquage suivant ATEX.

Comme tous les matériaux n'exigent pas la même énergie d'amorçage, on les répartit en trois groupes: **A** – énergie “élevée”, **B** – énergie “moyenne” et **C** – énergie “faible”. Veuillez consulter la littérature concernée pour la répartition d'un matériau.

La montée en température d'un appareil en surface pouvoir aussi constituer une source d'inflammation. Le matériel électrique à sécurité intrinsèque est divisé en 6 classes de température où **T1** correspond à une température en surface de 450 °C et **T6** à une température de 85 °C.

Le matériel électrique associé n'étant pas monté dans la zone Ex, celui-ci ne contient pas d'indication pour la classe de température. En outre, des parenthèses sont mises. Pour le matériel électrique **à sécurité intrinsèque** le marquage est p.ex. **Ex ia IIC T6** et pour le matériel électrique **associé [Ex ia] IIC**. Ensuite les données électriques pertinentes telles que la tension, le courant, la puissance, la capacitance et l'inductance sont visualisées.

Un numéro de vérification indique que le matériel électrique a été soumis à un examen de type et peut être utilisé dans les zones à risques d'explosions. Ce numéro est composé du symbole du laboratoire agréé, suivi par l'année de l'homologation, la notion ATEX pour la directive 94/9/CE et un numéro d'enregistrement interne (p.ex. PTB 97 ATEX 2128).

Zulassung und elektrische Daten

In diesem Katalog sind die elektrischen Zulassungsdaten der Geräte auszugsweise angegeben. Die vollständigen Angaben sind aus dem Hauptkatalog oder direkt der Zulassung zu entnehmen. Die Zulassungen sämtlicher TURCK-Geräte stehen im Internet als PDF zum Abruf bereit unter:

- ⇒ www.turck.com
- ⇒ www.turck.de
- ⇒ Dokumentation/Tools
- ⇒ Zulassungen

Installation und Betrieb

Die Betriebsmittel dürfen nur von geschultem Fachpersonal installiert werden. Dazu sind Kenntnisse der einschlägigen Normen (wie EN 60079-14 und EN 50020) unbedingt erforderlich.

Nachfolgend einige wichtige Hinweise: Es müssen die notwendigen Isolationsabstände eingehalten werden. Zwischen eigensicheren und nicht eigensicheren Anschlüssen ist ein Fadenmaß von 50 mm einzuhalten.

Bei der Zusammenschaltung von eigensicheren Betriebsmittel ist der „Nachweis der Eigensicherheit“ zu führen.

Die Betriebsmittel dürfen nicht geöffnet oder repariert werden. Die Anlagen sind regelmäßig aus Sicht des Ex-Schutzes zu überprüfen.

An den Aufbau von Leitungen und die Isolation und Verlegung werden besondere Anforderungen gestellt. Leitungen müssen gekennzeichnet werden, wenn farblich, dann hellblau. Eine EMV-gerechte Installation ist durchzuführen. Eigensichere und nicht eigensichere Stromkreise dürfen nicht in einem Kabel geführt werden.

Anerkennung außerhalb der EU

Die Schweiz hat die ATEX-Richtlinie in der VGSEB anerkannt und in nationales Recht umgesetzt. Alle Geräte mit ATEX-Zulassung dürfen direkt eingesetzt werden.

In den Ländern, die der EU beitreten wollen, werden die Normen und Richtlinien umgesetzt. Es ist jedoch zusätzlich eine nationale Zulassung erforderlich.

In den USA und Kanada unterscheidet sich der Explosionsschutz erheblich von dem innerhalb der EU.

Approvals and Electrical Data

The data quoted in this catalogue are merely an excerpt from the full specifications. Complete data can be taken from the main catalogue or directly from the approval.

The approvals of all TURCK devices can be downloaded from the internet as PDF files:

- ⇒ www.turck.com
- ⇒ www.turck.de/english
- ⇒ Documentation/Tools
- ⇒ Approvals

Installation and operation

Intrinsically safe equipment may only be installed by trained and qualified personnel familiar with the applicable standards (such as EN 60079-14 and EN50020).

Following some important guidelines:

It is required to observe the specified clearances, i.e. a thread measure of 50 mm must be observed between intrinsically safe and non-safe connections. When interconnecting intrinsically safe apparatus, it is required to provide a "Proof of Intrinsic Safety". Equipment may not be opened or modified. Installations must be inspected regularly with regard to explosion protection.

Construction, insulation and installation of cables are subject to special requirements. Cables must be specially marked. If colour-coded, their colour must be light blue. Electro-magnetic capability must be observed. Intrinsically-safe and non-safe circuits may not be conducted in the same cable.

Approvals outside the European Union

Switzerland has accepted the ATEX directive by the VGSEB and translated it into national regulations. All devices with ATEX approval may be directly installed.

Those countries wanting to become members of European Union apply the ATEX standards and directives but a separate national approval is required.

Explosion protection in the United States and Canada differs significantly from the regulations in the European Union.

Homologation et données électriques

Les données électriques d'homologation des appareils sont reprises dans ce catalogue. Pour l'ensemble des données veuillez vous référer au catalogue principal ou directement à l'homologation concernée.

Les homologations de tous les appareils TURCK peuvent être téléchargées sur internet sous forme de fichiers PDF:

- ⇒ www.turck.com
- ⇒ Europe/France/www.turckbanner.fr
- ⇒ Services/certificates
- ⇒ Homologation

Installation et fonctionnement

Le matériel électrique ne peut être installé que par des spécialistes. La connaissance des normes concernées (comme EN 60079-14 et EN50020) est absolument nécessaire.

Ci-dessous quelques conseils importants: Les distances d'isolement nécessaires doivent être respectées. Entre les circuits à sécurité intrinsèque et non à sécurité intrinsèque un écart de 50 mm est à respecter.

En cas d'interconnexion de matériels électriques la "preuve de la sécurité intrinsèque" doit être remplie.

Le matériel électrique ne peut pas être ouvert ou réparé. Les installations doivent être vérifiées régulièrement quant à la protection Ex.

Des conditions particulières sont stipulées pour la construction du câble, l'isolement et le déplacement. Les câbles véhiculant des signaux à sécurité intrinsèque sont repérés par la couleur bleue. Une installation conforme à la CEM doit être effectuée. Des signaux électriques à sécurité intrinsèque et non à sécurité intrinsèque ne peuvent pas être véhiculés dans le même câble.

Homologation en dehors de l'union européenne

La Suisse a retenu la directive ATEX dans la VGSEB et ensuite celle-ci a été convertie en droit national. Tous les appareils avec homologation ATEX peuvent être installés sans agrément complémentaire.

Dans les pays qui veulent adhérer à l'union Européenne, les normes et les directives sont directement converties. En outre, une homologation nationale peut être exigée. La protection contre les explosions aux Etats-Unis et au Canada se distingue considérablement de celle appliquée en Europe.

Hinweise zum Explosionsschutz

Guidelines on explosion protection

Conseils de protection contre les explosions

Eigensicherheit in den USA

In den Vereinigten Staaten kommen zwei unterschiedliche Systeme zur Klassifizierung von explosionsgefährdeten Bereichen zum Einsatz. Die Methode der Eigensicherheit zum Explosionsschutz wird durch beide Systeme anerkannt. Das erste und heute noch hauptsächlich verwendete System wird im Artikel 500 der ANSI/NFPA 70 NEC (US National Electrical Code) beschrieben.

Das NEC-Article 500-System

Dieses System wird seit vielen Jahren in den Vereinigten Staaten angewendet und ist bis dato die vorherrschende Methode. **Klassen, Divisionen und Gruppen** werden verwendet, um die Art der Explosionsgefahr sowie die Wahrscheinlichkeit des Vorliegens einer zündfähigen Konzentration zu definieren.

Die **Klasse** (Class) dient zur Kategorisierung des gefährlichen Materials:

- Class I: Gase und Dämpfe
- Class II: Stäube
- Class III: Fasern

Der Begriff **Division** klassifiziert die Wahrscheinlichkeit, dass gefährliches Material in einer zündfähigen Konzentration vorliegt:

- Division 1: Unter normalen Bedingungen vorhanden
- Division 2: Im Fehlerfall vorhanden

Der Begriff **Group** wird zur Definition von Gruppen von Gasen/Stäuben mit ähnlichen Zündeigenschaften verwendet:

- Group A: Acetylen
- Group B: Wasserstoff
- Group C: Äthylen
- Group D: Propan
- Group E: Metallstaub
- Group F: Kohlenstaub
- Group G: Kornstaub

T Codes, d. h. Codes zur Definition von maximalen Oberflächentemperaturen, werden ebenfalls verwendet und sind mit EU- und IEC-Kategorien identisch. Das „Article 500 System“ enthält jedoch zusätzliche Codes, die zur Subkategorisierung von Temperaturklassen **T2, T3, und T4** dienen. Die zusätzlichen Codes umfassen folgende Subkategorien:

- T2A** (= 280 °C)
- T2B** (= 260 °C)
- T2C** (= 230 °C)
- T2D** (= 215 °C)
- T3A** (= 180 °C)
- T3B** (= 165 °C)
- T3C** (= 160 °C)
- T4A** (= 120 °C)

Intrinsic safety in the United States

In the United States, there are two different systems for classification of explosion hazardous areas. The method of Intrinsic Safety is accepted by both systems. The primary and still most prevalent system is described in the Article 500 of the ANSI/NFPA 70 NEC (US National Electrical Code).

NEC Article 500 System

This system has been in use in North America for many years and is still the most prevalent method. **Classes, Divisions and Groups** are used to define the type of hazard as well as the probability of the hazard being present in an ignitable concentration.

Class defines the basic hazardous material:

- Class I: Gases and Vapors
- Class II: Dusts
- Class III: Fibers

Division defines the probability of the hazardous material being present in an explosive concentration:

- Division 1: Present under normal conditions
- Division 2: Present under fault conditions

Group defines specific groups of hazardous materials with similar ignition properties, typified by the following gases/dusts:

- Group A: Acetylene
- Group B: Hydrogen
- Group C: Ethylene
- Group D: Propane
- Group E: Metal dust
- Group F: Coal dust
- Group G: Grain dust

T Codes, or maximum surface temperature codes, are also defined and have identical meaning to those of the EU and IEC classification systems. However, in the Article 500 system, there are additional codes that divide codes **T2, T3, and T4** into smaller subdivisions. The additional codes include

- T2A** (= 280 °C),
- T2B** (= 260 °C),
- T2C** (= 230 °C),
- T2D** (= 215 °C),
- T3A** (= 180 °C),
- T3B** (= 165 °C),
- T3C** (= 160 °C),
- T4A** (= 120 °C).

Sécurité intrinsèque aux Etats-Unis

Les Etats-Unis ont deux systèmes séparés pour le classement des atmosphères explosives. La sécurité intrinsèque est une méthode de protection pour toutes les atmosphères classifiées sous les deux systèmes suivants. Le premier et le système le plus utilisé est défini dans l'article 500 de l'ANSI/NFPA 70, le code électrique national américain (US National Electrical Code / NEC).

NEC Article 500 System

Ce système a été utilisé en Amérique du Nord pendant plusieurs années et reste toujours le système le plus répandu. Les **classes, les divisions** et les **groupes** servent à la définition du type de danger ainsi qu'à la probabilité du danger présent dans une concentration inflammable.

La **classe** définit le matériel dangereux

- Classe I: gaz et vapeurs
- Classe II: poussières
- Classe III: fibres

La **division** définit la probabilité du matériel dangereux présent dans une concentration explosive:

- Division 1: présence dans des conditions normales
- Division 2: présence dans des conditions anormales

La répartition en **groupes** définit les groupes spécifiques de matériaux dangereux ayant des caractéristiques d'inflammation similaires, caractérisées par les gaz/poussières suivants:

- Groupe A: acétylène
- Groupe B: hydrogène
- Groupe C: éthylène
- Groupe D: propane
- Groupe E: poussière métallique
- Groupe F: poussière de charbon
- Groupe G: poussière de grain

Les **codes T**, ou les codes de température de surface maximum sont également définis et ont la même signification que les systèmes de classification de l'union européenne et IEC. L'article 500 system comprend pourtant des codes supplémentaires subdivisant les codes **T2, T3, et T4**. Les codes supplémentaires comprennent

- T2A** (= 280 °C),
- T2B** (= 260 °C),
- T2C** (= 230 °C),
- T2D** (= 215 °C),
- T3A** (= 180 °C),
- T3B** (= 165 °C),
- T3C** (= 160 °C),
- T4A** (= 120 °C).

Das NEC-Article 505-System

Das zweite System wird erstmals als Artikel 505 der NEC-Ausgabe von 1996 festgeschrieben. Das System beabsichtigt, die Harmonisierung mit internationalen Bestimmungen voranzutreiben, und ist fast identisch mit der Zoneneinteilung entsprechend IEC 60079. Es hat offiziellen Alternativstatus zum „Article 500“-System und gelangt zunehmend an Bedeutung. Die beiden Systeme können jedoch nicht miteinander kombiniert werden, wodurch es schwierig wird, das neue System in bestehende Installationen aufzunehmen. Geräte müssen entsprechend den nationalen Standards der Vereinigten Staaten zugelassen werden. Die Markierung der Geräte ähnelt dem IEC-60079-System, es werden jedoch die Begriffe „Class“ (mit der gleichen Bedeutung wie im „Article 500“-System) und „Zone“ zusätzlich verwendet, wie in den folgenden Beispielen aufgezeigt:

Class I, Zone 0, AEx ia IIC T6
Class I, Zone 0, AEx [ja] IIC

Das „A“ zeigt, dass das Gerät nach den entsprechenden amerikanischen Standards zugelassen ist. Bis dato werden nur explosionsgefährdete Bereiche der „Class I“ durch den Artikel 505 abgedeckt.

Kanada

Die Situation, dass parallel mit zwei Systemen gearbeitet wird, ist in Kanada ähnlich, auch wenn die Systeme beide in der CSA 22.1 des Canadian Electrical Code (CED) beschrieben werden. Kanada ist hier einen Schritt weiter gegangen und hat das IEC-System für neue Installationen vorgeschrieben.

Installationsrichtlinien

Installationsrichtlinien für eigensichere Systeme sind in den Vereinigten Staaten in der ANSI/ISA RP12.6 festgelegt. Installationsrichtlinien für kanadische Systeme sind im Anhang F der CEC enthalten.

NEC Article 505 System

The second system first appeared as Article 505 of the 1996 edition of the NEC. It was intended to promote harmonization with the rest of the world, and it is nearly identical to the “Zone” system described in IEC 60079. It is officially accepted as an alternative to the Article 500 system and is becoming gradually more prevalent. However, the two systems cannot be mixed together, making it difficult to implement the new system in existing facilities. Devices must be certified to US national standards. Device marking is similar to the IEC 60079 system, except that “Class” (with the same meaning as in the Article 500 system) and „Zone“ are added as shown in the following examples:

Class I, Zone 0, AEx ia IIC T6
Class I, Zone 0, AEx [ja] IIC

The “A” to indicate that the device is certified to the appropriate American national standard. At this time, only Class I atmospheres are covered by Article 505.

Canada

The situation of having two parallel systems is similar in Canada, although the systems are defined in CSA 22.1, the Canadian Electrical Code (CEC). Canada has gone a step further and mandated the IEC-style system for use in new installations.

Installation Practices

Installation guidelines for Intrinsically Safe Systems in the US can be found in ANSI/ISA RP12.6. Installation guidelines for Canadian systems can be found in Appendix F of the CEC.

NEC Article 505 System

Le deuxième système apparaît au début sous l'article 505 de l'édition 1996 du NEC. Il servait à la stimulation du nivellement par rapport au reste du monde, et est presque identique au système „zone“ défini dans la norme IEC 60079. Il est officiellement accepté comme alternative à l'Article 500 system et devient progressivement plus courant. Les deux systèmes ne peuvent pas être mélangés. Les appareils doivent être certifiés selon les normes nationales des Etats-Unis. Le marquage de l'appareil est identique au système IEC 60079, sauf la “classe” (ayant la même signification que dans l'Article 500 system) et la “zone” sont ajoutées conformément aux exemples suivants:

Classe I, Zone 0, AEx ia IIC T6
Classe I, Zone 0, AEx [ja] IIC

La lettre “A” signifie que l'appareil est certifié selon la norme nationale américaine appropriée. Seules les atmosphères de la classe I sont appliquées à l'Article 505.

Canada

L'existence de deux systèmes parallèles est aussi valable au Canada, mais les systèmes sont définis dans la norme CSA 22.1, le code électrique canadien (the Canadian Electrical Code / CEC). Le Canada a fait un pas en avant et a mandaté le système sous la forme IEC pour être utilisé dans les nouvelles installations.

Installation: conseils pratiques

Veillez vous référer à la norme ANSI/ISA RP12.6 pour les directives d'installation pour les systèmes à sécurité intrinsèque aux Etats-Unis. L'annexe F de la norme CEC comprend les directives d'installations pour les systèmes canadiens.

Typenverzeichnis
Index of types
Liste de types

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
43	712	BC10-Q14-AP4X2-V1131	216	BC5-Q08-RP6X2-V1131/S250	214
52	712	BC10-Q14-RP4X2	216	BC5-QF5,5-AP6X2/S250	218
451	710	BC10-QF5,5-AN6X2	218	BC5-QF5,5-Y1X/S250	238
452	710	BC10-QF5,5-AP6X2	218	BC5-QF5,5-Y1X/S250	240
572	710	BC10-QF5,5-AP6X2/S250	218	BC5-S185-AN4X/S100	228
841	710	BC10-S30-AZ3X	232	BC5-S185-AP4X	226
843	710	BC10-S30-AZ3X-B3131	232	BC5-S185-AP4X/S100	228
5711	710	BC10-S30-RZ3X	232	BC5-S185-Y0X/S90 4M	238
5723	710	BC10-S30-RZ3X-B3131	234	BC5-S185-Y0X/S90 4M	242
441/S2174	710	BC10-S30-VN4X	204	BC5-S18-AN4X	204
4MBM8-3N2	426	BC10-S30-VN4X-H1141	206	BC5-S18-AN4X-H1141/S250	204
4MBM8-3P2	426	BC10-S30-VP4X	204	BC5-S18-AP4X	204
4MBM8-4N3	426	BC10-S30-VP4X-H1141	206	BC5-S18-AP4X-H1141/S250	204
4MBM8-4P2-7/8-M	646	BC10-S30-Y1X	238	BC5-S18-AZ3X	230
4MBM8-4P3	426	BC10-S30-Y1X	242	BC5-S18-RP4X	204
4MBS8-3N2	426	BC15-K34-AN4X-H1141	206	BC5-S18-RP4X-H1141/S250	204
4MBS8-3P2	426	BC15-K34-AP4X-H1141	206	BC5-S18-RZ3X	230
6ES7972-0BA12-0XA0	736	BC15-K34-AZ3X	234	BC5-S18-Y0X/S100	228
6ES7972-0BA50-0XA0	736	BC15-K34-RZ3X	234	BC5-S18-Y1X	238
6ES7972-0BB50-0XA0	736	BC15-K34SR-FZ3X2	236	BC5-S18-Y1X	242
6GK1500-0FC00	736	BC15-K34-VN4X	206	BC5-S18-Y1X/S100	238
8MBM8-3N2	426	BC15-K34-VP4X	206	BC5-S18-Y1X/S100	242
8MBM8-3P2	426	BC20-CP40-FZ3X2	236	BC8-Q10-AN6X2/S250	214
8MBM8-4N3	426	BC20-CP40-VN4X2	220	BC8-Q10-AN6X2-V1131/S250	214
8MBM8-4P2-7/8-M	646	BC20-CP40-VP4X2	220	BC8-Q10-AP6X2/S250	214
8MBM8-4P3	426	BC20-CP40-VP4X2-H1141	220	BC8-Q10-AP6X2-V1131/S250	214
8MBS8-3N2	426	BC20-K40SR-FZ3X2	236	BC8-Q10-RP6X2/S250	214
8MBS8-3P2	426	BC20-K40SR-VN4X2	208	BC8-Q10-RP6X2-V1131/S250	214
B 5131-0	420	BC20-K40SR-VN4X2	208	BCF10-Q20L60-AP4X	222
B 5141-0	420	BC20-K40SR-VN4X2-H1141	208	BCF10-Q20L60-AP4X-H1141	222
B 5231-0	420	BC20-K40SR-VP4X2	208	BCF10-S30-AZ3X	232
B 5241-0	420	BC20-K40SR-VP4X2	208	BCF10-S30-AZ3X-B3131	234
B 8141-0	422	BC20-Q20-AN4X2	216	BCF10-S30-RZ3X	232
B 8151-0	422	BC20-Q20-AN4X2-H1141	216	BCF10-S30-RZ3X-B3131	234
B 8241-0	422	BC20-Q20-AP4X2	216	BCF10-S30-VN4X	224
B 8251-0	422	BC20-Q20-AP4X2-H1141	216	BCF10-S30-VN4X-H1141	224
B4148-0/9	745	BC20-Q20-RP4X2	216	BCF10-S30-VP4X	224
B4151-0/13.5	740	BC20-Q20-RP4X2-H1143	216	BCF10-S30-VP4X-H1141	224
B4151-0/9	739, 744	BC20-Q20-RP4X2-V1131	216	BCF15-K34-AZ3X	224
B4251-0/9	739, 744	BC20-Q20-RP4X2-V1131	216	BCF15-K34-AZ3X	234
B8151-0/9	467, 740	BC3-M12-AN6X	210	BCF15-K34-RZ3X	224
B8251-0/9	740	BC3-M12-AP6X	210	BCF15-K34-RZ3X	234
BA1.53SMTA	370	BC3-M12-AP6X/S90/3GD	240	BCF5-S18-AN4X	222
BA23S	370	BC3-M12-RP6X	210	BCF5-S18-AN4X-H1141/S250	222
BC10-M30-AZ3X	230	BC3-S12-AN6X	204	BCF5-S18-AP4X	222
BC10-M30-AZ3X-B3131	232	BC3-S12-AP6X	204	BCF5-S18-AP4X/S90	222
BC10-M30-RZ3X	230	BC3-S12-AP6X/S100	228	BCF5-S18-AP4X-H1141/S250	222
BC10-M30-RZ3X-B3131	232	BC3-S12-RP6X	204	BCF5-S18-RN4X	222
BC10-M30-VN4X	210	BC3-S12-RP6X/S90/3GD	240	BCF5-S18-RP4X/S90	222
BC10-M30-VN4X-H1141	212	BC5-M18-AN4X	210	BF23S	370
BC10-M30-VP4X	210	BC5-M18-AN4X-H1141/S250	210	BI0,8-Q5SE-AN6X	10
BC10-M30-VP4X-H1141	212	BC5-M18-AP4X	210	BI0,8-Q5SE-AP6X	10
BC10-P30SR-FZ3X2	234	BC5-M18-AP4X-H1141/S250	210	BI1,5-EG05-0,3-M12-SIU-H1141	174
BC10-P30SR-VN4X2	206	BC5-M18-AZ3X	230	BI1,5-EG08-AN6X	52
BC10-P30SR-VP4X2	206	BC5-M18-AZ3X-B3331/S250	230	BI1,5-EG08-AN6X-H1341	48
BC10-P30SR-VP4X2/3GD	240	BC5-M18-RP4X	210	BI1,5-EG08-AN6X-V1131	44
BC10-PT30-VN4X2	226	BC5-M18-RP4X-H1141/S250	210	BI1,5-EG08-AP6X	52
BC10-PT30-VP4X2	226	BC5-M18-RZ3X	230	BI1,5-EG08-AP6X-H1341	48
BC10-PT30-Y0X	226	BC5-M18-RZ3X-B3331/S250	230	BI1,5-EG08-AP6X-V1131	44
BC10-PT30-Y0X	238	BC5-Q08-AN6X2/S250	214	BI1,5-EG08K-AN6X	50
BC10-PT30-Y0X	242	BC5-Q08-AN6X2-V1131/S250	214	BI1,5-EG08K-AN6X-H1341	46
BC10-Q14-AN4X2	216	BC5-Q08-AP6X2/S250	214	BI1,5-EG08K-AN6X-V1131	44
BC10-Q14-AN4X2-V1131	216	BC5-Q08-AP6X2-V1131/S250	214	BI1,5-EG08K-AP6X	50
BC10-Q14-AP4X2	216	BC5-Q08-RP6X2/S250	214	BI1,5-EG08K-AP6X-H1341	46

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
BI1,5-EG08K-AP6X-V1131	44	BI10-M30-VP4X-H1141	118	BI10U-Q14-AP6X2-V1131	20
BI1,5-EG08K-Y1	50	BI10-M30-Y1X-H1141	118	BI10U-S30-AN6X	126
BI1,5-EG08K-Y1-H1341	46	BI10NF-EM30HE-AN6X2-H1141	120	BI10U-S30-AN6X-H1141	120
BI1,5-EG08-LU	174	BI10NF-EM30HE-AP6X2-H1141	120	BI10U-S30-AP6X	126
BI1,5-EG08-LU-H1341	174	BI10-P30SK-AP6X	140	BI10U-S30-AP6X-H1141	120
BI1,5-EG08WD-AN6X-H1341	48	BI10-P30SK-Y1X	136	BI12-G30K-AD4X	126
BI1,5-EG08WD-AP6X-H1341	48	BI10-P30SR-AN6X	140	BI12-M30-AD4X	130
BI1,5-EG08-Y1-H1341	46	BI10-P30SR-AP6X	140	BI12-M30-AD4X-H1141	118
BI1,5-EH04-0,3-M12-SIU-H1141	182	BI10-P30SR-FZ3X2	140	BI15-CK40-AD4X-H1141	28
BI1,5-EH6,5-AN6X-V1131	146	BI10-P30SR-VN4X2	140	BI15-CK40-AN6X2-H1141	26
BI1,5-EH6,5-AP6X-V1131	146	BI10-P30SR-VP4X2	140	BI15-CK40-AP6X2-H1141	26
BI1,5-EH6,5K-AN6X	150	BI10-P30-Y1/S100	126	BI15-CK40-LIU-H1141	172
BI1,5-EH6,5K-AN6X-V1131	146	BI10-P30-Y1X	126	BI15-CK40-Y1X-H1141	28
BI1,5-EH6,5K-AP6X	150	BI10-P30-Y1X/S97	126	BI15-CP40-AD4X	34
BI1,5-EH6,5K-AP6X-V1131	146	BI10-Q14-ADZ32X2	20	BI15-CP40-AN6X2	30
BI1,5-EH6,5K-Y1	150	BI10-Q14-ADZ32X2/S34	20	BI15-CP40-AP6X2	30
BI1,5-EH6,5-LU	182	BI10-Q14-AP45X2LD	20	BI15-CP40-FZ3X2	30
BI1,5-GS880-AN6X	54	BI10-Q14-AP68X2LD-V1131	20	BI15-CP40-FZ3X2/S100	30
BI1,5-GS880-AP6X	54	BI10-Q14-LIU	172	BI15-CP40-FZ3X2/S97	30
BI1,5-GS880-Y1	54	BI10-Q14-LIU-V1141	172	BI15-CP40-LIU	174
BI1,5-HS865-AN6X	150	BI10-Q14-Y1X	20	BI15-CP40-VN4X2	30
BI1,5-HS865-AP6X	150	BI10-S30-AD4X	128	BI15-CP40-VP4X2	30
BI1,5-HS865-Y1	150	BI10-S30-AN6X	126	BI15-CP40-VP4X2/S100	30
BI1,5U-EG08-AN6X	52	BI10-S30-AN6X-H1141	120	BI15-CP40-VP4X2/S97	30
BI1,5U-EG08-AN6X 7M	52	BI10-S30-AP6X	126	BI15-CP40-Y1X	34
BI1,5U-EG08-AN6X-H1341	48	BI10-S30-AP6X-H1141	120	BI15-CP40-Y1X/S100	34
BI1,5U-EG08-AN6X-V1131	44	BI10-S30-AZ3X	128	BI15-CP40-Y1X/S97	34
BI1,5U-EG08-AP6X	52	BI10-S30-AZ3X/S100	128	BI15-EM30-AP45XLD	130
BI1,5U-EG08-AP6X 7M	52	BI10-S30-AZ3X/S97	128	BI15-EM30-AP45XLD-H1141	116
BI1,5U-EG08-AP6X-H1341	48	BI10-S30-VP4X/S100	126	BI15-M30-AN6X-H1141	118
BI1,5U-EG08-AP6X-V1131	44	BI10-S30-VP4X/S97	126	BI15-M30-AP6X-H1141	118
BI1,5U-EGT08-AN6X-H1341	48	BI10S-Q26-AP4X-H1141/S34	24	BI15-M30E-LIU-H1141	180
BI1,5U-EGT08-AP6X-H1341	48	BI10U-CA25-AP6X2-H1141	24	BI15-M30-LI-EXI	180
BI1,5U-EGT08-AP6X-V1131	44	BI10U-CA25-AP6X2-V1131	24	BI15-M30-LIU	180
BI10-EG30SK-Y1X	136	BI10U-EG30SK-AN6X	138	BI15-M30-LUAP6X	180
BI10-EG30-Y1X/S100 7M	126	BI10U-EG30SK-AP6X	138	BI15-Q20-2LU-H1141/S950	182
BI10-EM30-AP6/S907	132	BI10U-EG30SK-VN4X	138	BI15-Q20-LIU	172
BI10-EM30D-VP6X/S120	132	BI10U-EG30SK-VP4X	138	BI15-Q20-LIU-H1141	172
BI10-EM30-VN4X 7M	130	BI10U-EM30-AN6X	130	BI15-Q20-Y1X	22
BI10-EM30-VP4X 7M	130	BI10U-EM30-AN6X-H1141	118	BI15-Q20-Y1X-H1141	22
BI10-EM30-Y1X-H1141	118	BI10U-EM30-AP6X	130	BI15U-CK40-AD4X-H1144	28
BI10-G30-AN6X-B1141	124	BI10U-EM30-AP6X-H1141	118	BI15U-CK40-ADZ30X2-B1131	28
BI10-G30-AP6X-B1141	124	BI10U-G30-ADZ30X2-B1131	124	BI15U-CK40-ADZ30X2-B3131	30
BI10-G30K-AN6X	126	BI10U-G30-ADZ30X2-B3131	124	BI15U-CK40-AN6X2-H1141	26
BI10-G30K-AP6X	126	BI10U-M30-AD4X	130	BI15U-CK40-AP6X2-H1141	26
BI10-G30SK-AN6X	138	BI10U-M30-AD4X-H1144	118	BI15U-CK40-VN4X2-H1141	26
BI10-G30SK-AP6X	138	BI10U-M30-ADZ30X2	130	BI15U-CK40-VP4X2-H1141	26
BI10-G30SK-Y1X	136	BI10U-M30-AN6X	130	BI15U-CP40-AN6X2	30
BI10-G30-Y1X	126	BI10U-M30-AN6X-H1141	118	BI15U-CP40-AP6X2	34
BI10-M30-AD4X	130	BI10U-M30-AP6X	130	BI15U-CP40-FDZ30X2	30
BI10-M30-AD4X-H1141	118	BI10U-M30-AP6X-H1141	118	BI15U-CP40-VP4X2	34
BI10-M30-AN6X	130	BI10U-M30-AP6X	130	BI15U-CP40-VP4X2-H1141	
BI10-M30-AN6X-H1141	118	BI10U-M30-VN4X	130	BI15U-EM30WD-AN6X	132
BI10-M30-AP6X	130	BI10U-M30-VN4X-H1141	118	BI15U-EM30WD-AN6X-H1141	118
BI10-M30-AP6X/S100	130	BI10U-M30-VP4X	130	BI15U-EM30WD-AN6X-H1141/3GD	118
BI10-M30-AP6X/S120	132	BI10U-M30-VP4X-H1141	118	BI15U-EM30WD-AP6X	132
BI10-M30-AP6X-H1141	118	BI10U-MT30-AD4X-0,3-RS4.23/XOR	120	BI15U-EM30WD-AP6X-H1141	116
BI10-M30-AZ3X	130	BI10U-MT30-AD4X-H1144	118	BI15U-EM30WD-AP6X-H1141/3GD	116
BI10-M30-AZ3X/S120	132	BI10U-MT30-AN6X-H1141	118	BI15U-EM30WD-VP44X-H1141	116
BI10-M30E-LIU-H1141	180	BI10U-MT30-AP6X-H1141	118	BI15U-M30-AN6X	130
BI10-M30-LIU	180	BI10U-P30SK-AN6X	140	BI15U-M30-AN6X-H1141	116
BI10-M30-VN4X	130	BI10U-P30SK-AP6X	140	BI15U-M30-AP6X	130
BI10-M30-VN4X-H1141	118	BI10U-Q14-AN6X2	20	BI15U-M30-AP6X-H1141	116
BI10-M30-VP4X	130	BI10U-Q14-AN6X2-V1131	20	BI15U-M30-RP6X-H1141	116
		BI10U-Q14-AP6X2	20		

Typenverzeichnis
Index of types
Liste de types

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
BI15U-M30-VN44X	130	BI2-EG08-AP6X-H1341	48	BI2-Q10S-AZ31X	18
BI15U-M30-VN44X-H1141	118	BI2-EG08-AP6X-V1131	44	BI2-Q10S-VN6X	18
BI15U-M30-VP44X	130	BI2-EG08-AZ14X	52	BI2-Q10S-VP6X	18
BI15U-M30-VP44X-H1141	116	BI2-EG08K-AN6X	50	BI2-Q10S-Y1X	18
BI15U-MT30-AN6X-H1141	116	BI2-EG08K-AN6X-H1341	46	BI2-Q12-AZ31X	18
BI15U-MT30-AP6X-H1141	116	BI2-EG08K-AN6X-V1131	44	BI2-Q5,5-AN6X	10
BI15U-Q20-AN6X2	22	BI2-EG08K-AP6X	50	BI2-Q5,5-AP6X	10
BI15U-Q20-AN6X2-H1141	22	BI2-EG08K-AP6X-H1341	46	BI2-Q5,5-AP6X/S34	10
BI15U-Q20-AP6X2	22	BI2-EG08K-AP6X-V1131	44	BI2-Q5,5-AP6X-0,3-PSG3M	10
BI15U-Q20-AP6X2-H1141	22	BI2-EG08-VP6X-H1341	48	BI2-Q5,5K-AN6X	10
BI1-EG05-AN6X	42	BI2-EG12SK-Y1X	80	BI2-Q5,5K-AP6X	10
BI1-EG05-AN6X-V1331	42	BI2-EG12-Y1X/S100 7M	72	BI2-Q5,5K-Y1X	10
BI1-EG05-AP6X	42	BI2-EH6,5-AN6X	150	BI2-S12-AD4X	72
BI1-EG05-AP6X-V1331	42	BI2-EH6,5-AN6X-V1131	146	BI2-S12-AN6X	72
BI1-EG05-RP6X	42	BI2-EH6,5-AP6X	150	BI2-S12-AN6X-H1141	62
BI1-EG05-RP6X-V1331	42	BI2-EH6,5-AP6X-V1131	146	BI2-S12-AP6X	72
BI1-EG05-Y1	42	BI2-EH6,5K-AN6X	150	BI2-S12-AP6X/S100	72
BI1-EH03-AN7X	144	BI2-EH6,5K-AN6X-V1131	146	BI2-S12-AP6X/S97	72
BI1-EH03-AP7X	144	BI2-EH6,5K-AP6X	150	BI2-S12-AP6X-H1141	62
BI1-EH04-AN6X	144	BI2-EH6,5K-AP6X-V1131	146	BI2-S12-AZ31X	72
BI1-EH04-AN6X-V1331	144	BI2-EH6,5K-RP6X	150	BI2-S12-AZ31X/S100	72
BI1-EH04-AP6X	144	BI2-EH6,5K-RP6X-V1131	146	BI2-S12-AZ31X/S97	72
BI1-EH04-AP6X-V1331	144	BI2-EM12D-AP6/S120	70	BI2U-EG08-AN6X	50
BI1-EH04-RP6X	144	BI2-EM12-VN6X 7M	70	BI2U-EG08-AN6X-H1341	48
BI1-EH04-RP6X-V1331	144	BI2-EM12-VP6X 7M	70	BI2U-EG08-AN6X-V1131	44
BI1-EH04-Y1	144	BI2-EM12WD-AP6/S929	70	BI2U-EG08-AP6X	50
BI1-HS540-AN6X	144	BI2-EM12-Y1X-H1141	58	BI2U-EG08-AP6X-H1341	48
BI1-HS540-AP6X	144	BI2-G12K-AN6X	72	BI2U-EG08-AP6X-V1131	44
BI1-HS540-RP6X	144	BI2-G12K-AP6X	72	BI2U-EG08-RP6X-H1341	48
BI1-HS540-Y1	144	BI2-G12K-AP6X-H1141	56	BI2U-EG08-RP6X-V1131	44
BI1-Q6,5-AN6	10	BI2-G12SK-AN6X	80	BI2U-EGT08-AP6X-H1341	48
BI1-Q6,5-AP6/S34	10	BI2-G12SK-AP6X	80	BI2U-EGT08-AP6X-V1131	44
BI1-Q6,5-Y1	10	BI2-G12SK-Y1X	80	BI2U-EH6,5-AN6X	150
BI20-CP40-Y1X	34	BI2-G12-Y1X	72	BI2U-EH6,5-AN6X-V1131	146
BI20-G47-AN4X	142	BI2-G12-Y2X 7M	72	BI2U-EH6,5-AP6X	150
BI20-G47-AP4X	142	BI2-K11-AP6X	152	BI2U-EH6,5-AP6X-V1131	146
BI20-G47-AZ3X	142	BI2-K11SK-AP6X	152	BI2U-EH6,5-RP6X	150
BI20-G47-Y1X	142	BI2-K11-Y1	152	BI2U-EH6,5-RP6X-V1131	146
BI20-Q20-AP45X2LD	22	BI2-M12-AD4X	70	BI2U-G12-ADZ32X-B3131	68
BI20-Q20-AP45X2LD-H1141	22	BI2-M12-AD4X-H1141	58	BI2U-M12E-AD4X	74
BI20R-Q14-LU	182	BI2-M12-AN6X	70	BI2U-M12E-AD4X-H1144	60
BI20R-Q14-LU-H1141	182	BI2-M12-AN6X-H1141	58	BI2U-MT12E-AD4X-0,3-RS4.23/XOR	62
BI20U-CA40-AN6X2-H1141	26	BI2-M12-AP6X	70	BI2U-MT12E-AD4X-H1144	60
BI20U-CA40-AP6X2-H1141	26	BI2-M12-AP6X/S100	70	BI30-QF15-AP6X2-H1141	36
BI20U-CK40-AN6X2-H1141	26	BI2-M12-AP6X-H1141	58	BI30U-CK40-AN6X2-H1141	28
BI20U-CK40-AP6X2-H1141	26	BI2-M12-AZ31X	74	BI30U-CK40-AP6X2-H1141	28
BI20U-CK40-VN4X2-H1141	26	BI2-M12E-AN6X-H1141	60	BI30U-CP40-AN6X2	32
BI20U-CK40-VP4X2-H1141	26	BI2-M12E-AP6X-H1141	60	BI30U-CP40-AP6X2	34
BI20U-CP40-AN6X2	32	BI2-M12-LIU	176	BI3FE-M12FEE-AP6X-H1141	62
BI20U-CP40-AP6X2	32	BI2-M12-LIU-H1141	174	BI3-G12K-AD4X	72
BI20U-CP40-AP6X2/3D	32	BI2-M12-VN6X	70	BI3-M12-AD4X	70
BI20U-CP40-VN4X2	32	BI2-M12-VN6X-H1141	58	BI3-M12-AD4X-H1141	58
BI20U-CP40-VP4X2	34	BI2-M12-VP6X	70	BI3NF-EM12HE-AN6X2-H1141	60
BI25-G47SR-FZ3X2	142	BI2-M12-VP6X-H1141	58	BI3NF-EM12HE-AP6X2-H1141	60
BI25-G47SR-VN4X2	142	BI2-M12-Y1X-H1141	58	BI3-Q06-AN6X2	10
BI25-G47SR-VP4X2	142	BI2-P12SK-AN6X	82	BI3-Q06-AP6X2	10
BI2-EG08-AG41X	52	BI2-P12SK-AP6X	82	BI3U-EG12SK-AN6X	80
BI2-EG08-AG41X-H1341	48	BI2-P12SK-Y1X	80	BI3U-EG12SK-AP6X	80
BI2-EG08-AN6X	52	BI2-P12-Y1/S100	76	BI3U-EG12SK-VN4X	80
BI2-EG08-AN6X/S100	52	BI2-P12-Y1X	74	BI3U-EG12SK-VP4X	80
BI2-EG08-AN6X-H1341	48	BI2-P12-Y1X/S97	74	BI3U-EM12-AN6X	70
BI2-EG08-AN6X-V1131	44	BI2-Q10S-AN6X	18	BI3U-EM12-AN6X-H1141	58
BI2-EG08-AP6X	50	BI2-Q10S-AP6X	18	BI3U-EM12-AP6X	70
BI2-EG08-AP6X/S100	50	BI2-Q10S-AP6X-0,2-PSG3M	16	BI3U-EM12-AP6X-H1141	58

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
BI3U-EM12E-VN4X	74	BI50U-Q80-AN6X2-H1141	36	BI5-S18-VP4X/S100	108
BI3U-EM12E-VN4X-H1141	60	BI50U-Q80-AP6X2-H1141	36	BI5-S18-VP4X/S97	108
BI3U-M12-AN6X	70	BI50U-Q80-VN4X2-H1141	36	BI5U-EG18SK-AN6X	112
BI3U-M12-AN6X-H1141	58	BI50U-Q80-VP4X2-H1141	36	BI5U-EG18SK-AP6X	112
BI3U-M12-AP6X	70	BI50U-Q80-VP4X2-H1141/3GD	36	BI5U-EG18SK-VN4X	112
BI3U-M12-AP6X-H1141	58	BI5-EG18SK-Y1X	110	BI5U-EG18SK-VP4X	112
BI3U-M12EE-AP6X-H1141	62	BI5-EG18-Y1X/S100 7M	98	BI5U-EM18-AN6X	98
BI3U-M12E-VN4X	74	BI5-EM18-AP6/S907	102	BI5U-EM18-AN6X-H1141	86
BI3U-M12E-VN4X-H1141	60	BI5-EM18D-VP6X/S120	104	BI5U-EM18-AP6X	98
BI3U-M12E-VP4X	74	BI5-EM18-VN4X 7M	98	BI5U-EM18-AP6X-H1141	86
BI3U-M12E-VP4X-H1141	60	BI5-EM18-VP4X 7M	98	BI5U-G18-ADZ30X2-B1331	96
BI3U-MT12-AN6X-H1141	58	BI5-EM18WD-AP6X/S929	102	BI5U-G18-ADZ30X2-B3331	94
BI3U-MT12-AP6X-H1141	58	BI5-EM18-Y1X-H1141	86	BI5U-K20SK-AN6X	154
BI3U-P12SK-AN6X	82	BI5FE-M18FE-AP6X-H1141	88	BI5U-K20SK-AP6X	154
BI3U-P12SK-AP6X	82	BI5-G18-AN6X-B1341	94	BI5U-M18-ADZ30X2	100
BI3U-S12-AN6X	70	BI5-G18-AP6X-B1341	94	BI5U-M18-AN6X	98
BI3U-S12-AN6X-H1141	60	BI5-G18K-AN6X	98	BI5U-M18-AN6X-H1141	86
BI3U-S12-AP6X	70	BI5-G18K-AP6X	98	BI5U-M18-AP6X	98
BI3U-S12-AP6X-H1141	60	BI5-G18KK-AP6-H1141	84	BI5U-M18-AP6X-H1141	86
BI40-CP80-FZ3X2	40	BI5-G18SK-AN6X	112	BI5U-M18M-AD4X	100
BI40-CP80-VN4X2	40	BI5-G18SK-AP6X	112	BI5U-M18M-AD4X-H1144	88
BI40-CP80-VP4X2	40	BI5-G18SK-Y1X	110	BI5U-M18M-VN4X	100
BI40-CP80-VP4X2-H1141	36	BI5-G18-Y1X	98	BI5U-M18M-VN4X-H1141	88
BI4-EM12E-AP45XLD	74	BI5-M18-AD4X	98	BI5U-M18M-VP4X	100
BI4-EM12E-AP45XLD-H1141	60	BI5-M18-AD4X-H1141	86	BI5U-M18M-VP4X-H1141	88
BI4-G12-AP6X-V1131	56	BI5-M18-AN6X	98	BI5U-MT18-AN6X-H1141	86
BI4-G12K-AN6X	72	BI5-M18-AN6X-H1141	86	BI5U-MT18-AP6X-H1141	86
BI4-G12K-AP6X	72	BI5-M18-AP6X	98	BI5U-MT18E-AP6X-H1141	90
BI4-M12-AN6X	70	BI5-M18-AP6X/S100	98	BI5U-MT18M-AD4X-0,3-RS4.23/XOR	90
BI4-M12-AN6X-H1141	58	BI5-M18-AP6X/S120	102	BI5U-MT18M-AD4X-H1144	88
BI4-M12-AP6X	70	BI5-M18-AP6X-H1141	86	BI5U-P18SK-AN6X	114
BI4-M12-AP6X-H1141	58	BI5-M18-AZ3X	100	BI5U-P18SK-AP6X	114
BI4-M12E-AP6X-H1141	60	BI5-M18-AZ3X/S120	102	BI5U-Q08-AN6X2	16
BI4-M12-LIU	176	BI5-M18E-LIU-H1141	176	BI5U-Q08-AN6X2-V1131	14
BI4-M12-LIU-H1141	174	BI5-M18E-VP4X-H1141	90	BI5U-Q08-AP6X2	16
BI4-M12-VN6X	70	BI5-M18-LIU	176	BI5U-Q08-AP6X2-0,5XOR-RS4	14
BI4-M12-VN6X-H1141	58	BI5-M18-VN4X	98	BI5U-Q08-AP6X2-1XOR-RS4	14
BI4-M12-VP6X	70	BI5-M18-VN4X-H1141	86	BI5U-Q08-AP6X2-V1131	14
BI4-M12-VP6X-H1141	58	BI5-M18-VP4X	98	BI5U-Q08-AP6X2-V2131	14
BI4U-EM12EWD-VP44X-H1141	60	BI5-M18-VP4X-H1141	86	BI5U-Q12-AN6X2	18
BI4U-EM12WD-AN6X	68	BI5-M18-Y1X-H1141	86	BI5U-Q12-AN6X2-H1141	18
BI4U-EM12WD-AN6X-H1141	56	BI5NF-EM18HE-AN6X2-H1141	90	BI5U-Q12-AN6X2-V1131	18
BI4U-EM12WD-AN6X-H1141/3D	58	BI5NF-EM18HE-AP6X2-H1141	90	BI5U-Q12-AP6X2	18
BI4U-EM12WD-AP6X	68	BI5-P18-AN6/S139-S90	102	BI5U-Q12-AP6X2-H1141	18
BI4U-EM12WD-AP6X-H1141	56	BI5-P18-AP6/S139-S90	102	BI5U-Q12-AP6X2-V1131	18
BI4U-EM12WD-AP6X-H1141/3D	56	BI5-P18-AZ3/S139-S90	102	BI5U-Q12-AP6X2-V1131/F2	18
BI4U-EM12WDTC-AP6X	80	BI5-P18SK-AN6X	114	BI5U-Q12-VN6X2 7M	18
BI4U-M12-AN6X	70	BI5-P18SK-AP6X	114	BI5U-Q12-VP6X2 7M	18
BI4U-M12-AN6X-H1141	56	BI5-P18SK-Y1X	114	BI5U-S18-AN6X	108
BI4U-M12-AN6X-V1131	54	BI5-P18-Y1/S100	96	BI5U-S18-AN6X-H1141	88
BI4U-M12-AP6X	70	BI5-P18-Y1X	96	BI5U-S18-AP6X	108
BI4U-M12-AP6X-H1141	56	BI5-P18-Y1X/S97	96	BI5U-S18-AP6X-H1141	88
BI4U-M12-AP6X-V1131	54	BI5-Q08-AD4X-V1130	14	BI5U-T18-AP6X2/S90	96
BI4U-M12E-VN44X	74	BI5-Q08-VN6X2	16	BI5U-T18-AP6X2-H1141	84
BI4U-M12E-VN44X-H1141	60	BI5-Q08-VP6X2	16	BI7-G18K-AD4X	98
BI4U-M12E-VP44X	74	BI5-Q08-Y1X	16	BI7-M18-AD4X	98
BI4U-M12E-VP44X-H1141	60	BI5-S18-AD4X	108	BI7-M18-AD4X-H1141	86
BI4U-M12-RP6X-H1141	56	BI5-S18-AN6X	108	BI7-Q08-LIU	172
BI4U-M12-VP44X-H1141 L100	62	BI5-S18-AN6X-H1141	88	BI7-Q08-VN6X2	16
BI4U-M12-VP44X-H1141 L80	62	BI5-S18-AP6X	108	BI7-Q08-VN6X2-V1141	14
BI4U-MT12-AN6X-H1141	56	BI5-S18-AP6X-H1141	88	BI7-Q08-VP6X2	16
BI4U-MT12-AP6X-H1141	56	BI5-S18-AZ3X	108	BI7-Q08-VP6X2-V1141	14
BI50-Q80-Y1X	36	BI5-S18-AZ3X/S100	108	BI8-EM18-AP45XLD	98
BI50R-Q80-2LU-H1141/S950	184	BI5-S18-AZ3X/S97	108	BI8-EM18-AP45XLD-H1141	86

Typenverzeichnis
Index of types
Liste de types

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
BI8-M18-AN6X-H1141	86	BL20-2AI-PT/NI-2/3	696	BL67-4DI-P	662
BI8-M18-AP6X-H1141	86	BL20-2AI-THERMO-PI	696	BL67-4DI-PD	662
BI8-M18-AP6X-H1141/S58	90	BL20-2AI-U(-10/0...+10VDC)	694	BL67-4DO-0.5A-P	668
BI8-M18E-LIU-H1141	176	BL20-2AO-I(4...20MA)	702	BL67-4DO-2A-N	668
BI8-M18K-AP6X-H1141	84	BL20-2AO-U(-10/0...+10VDC)	702	BL67-4DO-2A-P	668
BI8-M18-LF10	178	BL20-2DI-120/230VAC-P	690	BL67-8DI-N	662
BI8-M18-LI-EXI	178	BL20-2DI-24VDC-N	690	BL67-8DI-P	662
BI8-M18-LIU	176	BL20-2DI-24VDC-P	690	BL67-8DI-PD	662
BI8-M18-LUAP6X	180	BL20-2DO-120/230VAC-0,5A	698	BL67-8DO-0.5A-N	668
BI8-M18-VN4X-H1141	86	BL20-2DO-24VDC-0,5A-N	698	BL67-8DO-0.5A-P	668
BI8-M18-VP4X-H1141	86	BL20-2DO-24VDC-0,5A-P	698	BL67-8DO-R-NO	668
BI8U-EM18MWD-VP44X-H1141	88	BL20-2DO-24VDC-2A-P	698	BL67-8XSG-PD	670
BI8U-EM18WD-AN6X	100	BL20-2DO-R-CO	704	BL67-B-2M12	460
BI8U-EM18WD-AN6X-H1141	86	BL20-2DO-R-NC	704	BL67-GW-CO	656
BI8U-EM18WD-AN6X-H1141/3GD	86	BL20-2DO-R-NO	704	BL67-GW-CO-T	656
BI8U-EM18WD-AP6X	100	BL20-2RFID-A	460	BL67-GW-DN	656
BI8U-EM18WD-AP6X-H1141	84	BL20-2RFID-S	460	BL67-GW-DPV1	656
BI8U-EM18WD-AP6X-H1141/3GD	84	BL20-32DI-24VDC-P	692	BL67-GW-EN	656
BI8U-EM18WDTC-AP6X	114	BL20-32DO-24VDC-0,5A-P	700	BL67-GW-EN-DN	656
BI8U-M18-AN6X	98	BL20-4AI-U/I	694	BL67-GW-EN-IP	656
BI8U-M18-AN6X-H1141	84	BL20-4DI-24VDC-N	692	BL67-GW-EN-IP-DN	656
BI8U-M18-AP6X	98	BL20-4DI-24VDC-P	692	BL67-GW-EN-PN	656
BI8U-M18-AP6X-H1141	84	BL20-4DI-NAMUR	692	BL67-PF-24VDC	660
BI8U-M18E-AN6X-H1141	104	BL20-4DO-24VDC-0,5A-P	700	BL67-PG-DP	658
BI8U-M18E-AP6X-H1141	104	BL20-BR-24VDC-D	688	BL67-PG-EN	658
BI8U-M18M-VN44x	100	BL20-E-16DI-24VDC-P	690	BL67-PG-EN-IP	658
BI8U-M18M-VN44X-H1141	88	BL20-E-16DO-24VDC-P	698	BLC DN-16M8LT-8DO-0.5A-P-8DO-0.5A-P	652
BI8U-M18M-VP44X	100	BL20-E-8DI-24VDC-P	690	BLC DN-1M16M-1RS232	652
BI8U-M18M-VP44X-H1141	88	BL20-E-8DO-24VDC-P	698	BLC DN-1M16M-1RS485-422	652
BI8U-M18-RP6X-H1141	84	BL20-E-GW-CO	682	BLC DN-1M16MT-16DO-0.1A-P	652
BI8U-MT18-AN6X-H1141	86	BL20-E-GW-DN	682	BLC DN-2M12S-2AI-PT	652
BI8U-MT18-AP6X-H1141	84	BL20-E-GW-DP	682	BLC DN-2M12S-2AI-TC	652
BI8U-MT18E-AP6X-H1141	90	BL20-GWBR-CANOPEN	680	BLC DN-2M12S-2AO-I	652
BI8U-Q08-AN6X2	16	BL20-GWBR-DNET	680	BLC DN-2M12S-2AO-V	652
BI8U-Q08-AN6X2-V1131	14	BL20-GW-DPV1	680	BLC DN-2M12S-2RFID-S	461
BI8U-Q08-AP6X2	16	BL20-GW-EN	684	BLC DN-2M12S-2RFID-S	652
BI8U-Q08-AP6X2-V1131	14	BL20-GW-EN-IP	684	BLC DN-4M12MT-4DO-2A-P	652
BI8U-Q10-AN6X2	16	BL20-GW-EN-PN	684	BLC DN-4M12MT-8DO-0.5A-P	652
BI8U-Q10-AN6X2-V1131	16	BL20-PF-120/230VAC-D	688	BLC DN-4M12MT-8XSG-PD	652
BI8U-Q10-AP6X2	16	BL20-PF-24VDC-D	688	BLC DN-4M12S-4AI-VI	652
BI8U-Q10-AP6X2-V1131	16	BL20-PG-EN	686	BLC DN-4M12S-8DI-P	652
BIC-44-E424	743	BL20-PG-EN-IP	686	BLC DN-4M12S-8DI-PD	652
BID2-G180-AP6/S212	100	BL20-S4S-SBBS	692	BLC DN-4M12S-8XSG-PD	652
BID2-G180-AP6/S220	100	BL20-S4T-SBBS	460	BLC DN-6M12L-4AI-VI-2AO-V	652
BID2-G180-AP6-H1141/S212	88	BL20-S4T-SBBS	692	BLC DN-8M12L-4AI-VI-4AI-VI	652
BID2-G180-AP6-H1141/S220	88	BL67-16DO-0.1A-P	668	BLC DN-8M12LT-8XSG-PD-8XSG-PD	652
BKV4140-0/16	795	BL67-1CNT/ENC	676	BLC DN-8M8S-8DI-P	652
BKV4140-0/9	769	BL67-1CVI	674	BLC DP-2M12MT-2RFID-A	461
BKV4140-0/9	795	BL67-1RS232	674	BLC DP-2M12MT-2RFID-S	461
BKV4149-0/16	769	BL67-1RS485/422	676	BLC DP-2M12MT-2RFID-S	650
BKV8140-0/9	770	BL67-1SSI	674	BLC DP-4M12MT-4AI-VI	650
BKV8140-0/9	796	BL67-2AI-I	664	BLC DP-4M12MT-8XSG-PD	650
BKV8240-0/9	770	BL67-2AI-PT	666	BLC DP-6M12LT-2AI-PT-8XSG-PD	650
BKV8240-0/9	796	BL67-2AI-TC	666	BLC DP-6M12LT-2AI-TC-8XSG-PD	650
BL20-16DI-24VDC-P	692	BL67-2AI-V	664	BLC DP-6M12LT-2AO-I-8XSG-PD	650
BL20-16DO-24VDC-0,5A-P	700	BL67-2AO-I	672	BLC DP-6M12LT-2AO-V-8XSG-PD	650
BL20-1AI-I(0/4...20MA)	694	BL67-2AO-V	672	BLC DP-6M12LT-2RFID-S-8DI-PD	650
BL20-1AI-U(-10/0...+10VDC)	694	BL67-2RFID-A	460	BLC DP-6M12LT-2RFID-S-8XSG-PD	461
BL20-1AO-I(0/4...20MA)	702	BL67-2RFID-S	460	BLC DP-8M12LT-4AI-VI-8XSG-PD	650
BL20-1CNT-24VDC	706	BL67-2RFID-S	676	BLC DP-8M12LT-8DI-PD-4DO-2A-P	650
BL20-1RS232	706	BL67-4AI-V/I	664	Blident-CD	469
BL20-1RS485/422	706	BL67-4DI4DO-PD	670	BM-DPC	748
BL20-1SSI	706	BL67-4DI-N	662		
BL20-2AI-I(0/4...20MA)	694				

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
BMS8141-0/9	797	BST-30B	476	DTM-PROFLIZENZ IM34	576
BMS8141-0/9	797	BST-30B	463	DTM-PROFLIZENZ MC25	576
BMSWS8251-8,5	735	BST-30N	476	DTNI12U-M18E-AP4X3	110
BMWS8251-8,5	735	BST-30N	463	DTNI20U-M30-AP4X2	132
BRF50H (1M)	376	BST-BS	464	EL 1/1	574
BRF75H (1M)	377	BST-UH	464	FBA-YE/SD	760
BRT-25	374	BST-UV	464	FBA-YE/SD	786
BRT-25R	375	BSV4140-0/16	769	FBH-YE/SD	760
BRT-40	374	BSV4140-0/16	795	FBH-YE/SD	786
BRT-40X18A	375	BSV4140-0/9	769	FB-RK4.5T-10/S2502	467
BRT-40X23B	375	BSV4140-0/9	795	FB-RK4.5T-25/S2502	467
BRT-42A	374	BSV8140-0/9	770	FB-RK4.5T-5/S2502	467
BRT-42D	374	BSV8140-0/9	796	FB-WAK4-...-FB-WAK4/S2300	408
BRT-46	376	BSV8240-0/9	770	FB-WAK4-.../S2300	406
BRT-48X32A	375	BSV8240-0/9	796	FB-WAK4-...-FB-WAS4/S2300	408
BRT-48X32B	375	BT23SM8	370	FB-WAS4-.../S2300	406
BRT-50R	375	CBC5-5711-0,5M	724	FB-WAS4-...-FB-WAS4/S2300	408
BRT-53X19A	375	CBC5-5711-1M	724	FB-WWAK4-.../S2300	406
BRT-60X40C	376	CBC5-5711-2M	724	FB-WWAK4-...-FB-WWAK4/S2300	410
BRT-75	374	CBC5-572-0,5M	724	FB-WWAK4-...-FB-WWAS4/S2300	410
BRT-77X77C	376	CBC5-572-1M	724	FB-WWAS4-.../S2300	406
BRT-84	374	CBC5-572-2M	724	FB-WWAS4-...-FB-WWAS4/S2300	410
BRT-92X92C	376	CBC5-5723-0,5M	724	FBY-BK/LD	760, 786
BS 5141-0	420	CBC5-5723-1M	724	FBY-BK/SD	760, 786
BS11	470	CBC5-5723-2M	724	FBY-BU/SD	760, 786
BS12	472	D10AFP	362	FBY-OG/SD	760, 786
BS18	473	D10AFPQ	362	FBY-YE/SD	760, 786
BS18	462	D10BFP	362	FCI-D03A4-NAEX-H1141/M12	270
BS20	470	D10BFPQ	362	FCI-D03A4-NAEX-H1141/M16	270
BS34.1	471	D10DPFP	362	FCI-D03A4-NA-H1141/M12	270
BS40	471	D10DPFPQ	362	FCI-D03A4-NA-H1141/M16	270
BS4148-0/9	745	D10IPFP	362	FCI-D03A4P-NA	270
BS4151-0/13.5	740	D10IPFPQ	362	FCI-D04A4P-NA-H1141	270
BS4151-0/9	739	D10UPFP	362	FCI-D09A4-NAEX-H1141/M16	270
BS4151-0/9	744	D10UPFPQ	362	FCI-D09A4-NA-H1141/M16	270
BS4251-0/9	740	D12SP6FV	364	FCI-D10A4P-AP8X-H1141/A	262
BS4251-0/9	744	D12SP6FVQ	364	FCI-D10A4P-ARX-H1140/A	262
BS5131-0	420	D12SP6FVY	364	FCI-D10A4P-LIX-H1141/A	262
BS5231-0	420	D12SP6FVY1	364	FCI-D10A4P-NA-H1141	270
BS5241-0	420	D12SP6FVY1Q	364	FCS-50A4-AP8X-H1141/D014	252
BS540	470	D12SP6FVYQ	364	FCS-68A4-AP8X-H1141/D003	252
BS8141-0	424	DBI10U-M30-AP4X2	132	FCS-G1/2A4-AN8X-H1141	250
BS8151-0	424	DBI15U-K40SR-AP4X2	154	FCS-G1/2A4-AP8X-H1141	250
BS8151-0/9	467	DBI5U-M18E-AP4X2 50/MIN	102	FCS-G1/2A4-NA	266
BS8151-0/9	740	DBI5U-M18E-AP4X2 500/MIN	102	FCS-G1/2A4-NA/D100	266
BS8241-0	424	DBI5U-M18E-AP4X3	102	FCS-G1/2A4-NAEX	266
BS8251-0/9	424	DM-Q12	481	FCS-G1/2A4-NAEX/AL065	268
BS8251-0/9	741	DMR15-6-3	480	FCS-G1/2A4-NAEX0	266
BS865	470	DMR20-10-4	480	FCS-G1/2A4-NAEX0/L065	266
BSN18	473	DMR31-15-5	481	FCS-G1/2A4-NAEX0-H1141	264
BSN18	462	DNI12U-M18E-AP4X3	110	FCS-G1/2A4-NAEX-H1141	264
BSS-08	472	DNI20U-M30-AP4X2	132	FCS-G1/2A4-NAEX-H1141/AL065	268
BSS-12	473	DNI30U-K40SR-AP4X2	154	FCS-G1/2A4-NA-H1141	264
BSS-18	476	DPC-49-4RMB	748	FCS-G1/2A4P-AP8X-H1141	250
BSS-30	478	DPC-49-4RMB/SY	748	FCS-G1/2A4P-LIX-H1141	250
BSS-CP40	479	DPC-49-ADU	749	FCS-G1/2A4P-LIX-H1141/D037	252
BST-08B	471	DPC-49-DU	749	FCS-G1/2A4P-VRX/230VAC	252
BST-08N	471	DPC-49-HSEFD/24VDC	749	FCS-G1/2A4P-VRX/24VDC	252
BST-12B	472	DPC-49-IPS1	748	FCS-G1/2DY-AP8X-H1141	250
BST-12N	472	Drehmomentschlüsselset M8/M12	424	FCS-G1/2TN-NA-H1141	264
BST-18B	474	DS-R30	466	FCS-G1/4A4-AP8X-H1141	250
BST-18B	462	DS-R50	466	FCS-G1/4A4-NA/D100	264
BST-18N	474	DTBI10U-M30-AP4X2	132	FCS-G1/4A4-NAEX	264
BST-18N	462	DTBI5U-M18E-AP4X3	102	FCS-G1/4A4-NAEX0	264

Typenverzeichnis
Index of types
Liste de types

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
FCS-G1/4A4-NAEX0-H1141	264	FDNQ-S0800-T	596	HT-Ident-H1147	454
FCS-G1/4A4-NAEX-H1141	264	FDNQ-XSG08-T	596	IA1.53SMTA	371
FCS-G1/4A4-NA-H1141	264	FG1 FREQUENZGENERATOR	576	IA23S	370
FCS-G1/4A4P-AP8X-H1141	250	FGDP-IM16-0001	594	IF23S	370
FCS-G3/4A4-NA-H1141	266	FGDP-IOM88-0001	594	IM1-121EX-R	492
FCS-GL1/2A2-NA/A	268	FGDP-IOM88-0003	594	IM1-12EX-R	492
FCS-GL1/2A2-NA/A/D100	268	FI22FP	364	IM1-12EX-T	492
FCS-GL1/2A2-NA-H1141/A	268	FI22FPQ	364	IM12-22EX-R	494
FCS-GL1/2A2P-AP8X-H1141/A	260	FKM-FS57-M12	741	IM1-22EX-R	494
FCS-GL1/2A2P-LIX-H1141/A	260	FKSDD-RJ45SF-44	743	IM1-22EX-T	494
FCS-GL1/2A2P-VRX/230VAC/A	260	FKV48-0,3M/14,5/C1117	793	IM1-451EX-R	494
FCS-GL1/2A2P-VRX/24VDC/A	260	FKV48-0,3M/M20/C1117	793	IM1-451EX-T	494
FCS-GL1/2A4-AP8X-H1141	250	FKV49	768	IM21-14-CDTRI	510
FCS-GL1/2A4-NA	266	FKV49	794	IM21-14EX-CDTRI	510
FCS-GL1/2A4-NA/D100	266	FKV49-0,3M/14,5/C1117	767	IM31-11EX-I	526
FCS-GL1/2A4-NAEX	266	FKV49-0,3M/M20/C1117	767	IM31-11-I	516
FCS-GL1/2A4-NAEX/A	268	FKW-FSW45-M12	735	IM31-12EX-I	526
FCS-GL1/2A4-NAEX/A/D100	268	FLDP-IM16-0001	594	IM31-12-I	516
FCS-GL1/2A4-NAEX/D500	266	FLDP-IM32-0001	594	IM31-22EX-I	526
FCS-GL1/2A4-NAEX0	266	FLDP-IM8-0001	594	IM31-22-I	516
FCS-GL1/2A4-NAEX0/A	268	FLDP-IOM124-0001	594	IM33-11EX-HI/24VDC	530
FCS-GL1/2A4-NAEX0-H1141/A	268	FLDP-IOM124-0002	594	IM33-12EX-HI/24VDC	530
FCS-GL1/2A4-NAEX-H1141	266	FLDP-IOM1616-0001	594	IM33-22EX-HI/24VDC	530
FCS-GL1/2A4-NAEX-H1141/A	268	FLDP-IOM248-0001	594	IM34-11EX-CI	534
FCS-GL1/2A4-NA-H1141	266	FLDP-IOM84-0001	594	IM34-11EX-I	534
FCS-GL1/2A4-NA-H1141/D500	266	FLDP-IOM88-0001	594	IM34-12EX-CRI	536
FCS-GL1/2A4P-AP8X-H1141	252	FLDP-IOM88-0002	594	IM34-12EX-RI	534
FCS-GL1/2A4P-LIX-H1141	252	FLDP-OM16-0001	594	IM34-14EX-CDRI	534
FCS-GL1/2A4P-VRX/230VAC	252	FLDP-OM8-0001	594	IM35-11EX-HI/24VDC	532
FCS-GL1/2A4P-VRX/24VDC	252	FLDP-OM8-0002	594	IM35-22EX-HI/24VDC	532
FCS-GL1/2T-NA	266	FS 025/037	465	IM36-11EX-I/24VDC	540
FCS-GL1/2TN-NA-H1141	266	FSM-2FKM57	737	IM36-11EX-U/24VDC	540
FCS-GL3/4A4-NAEX0	266	FSV48-0,3M/14,5/C1117	792	IM3-CJT	576
FCS-HA2P-LIX/AL115	260	FSV48-0,3M/M20/C1117	792	IM43-13-R	544
FCS-HA2P-LIX-H1141/AL115	260	FSV49	768	IM43-13-SR	544
FCS-HA2P-VRX/230VAC/AL115	260	FSV49	794	IM43-14-CDRI	544
FCS-K20-AP8X	260	FSV49-0,3M/14,5/C1117	766	IM43-14-RI	544
FCS-K20-LIX	260	FSV49-0,3M/M20/C1117	766	IM43-14-SRI	546
FCS-M18-AP8X	260	FW-M12KU5D-G-SB-ME-SH-8	743	IM72-11EX/L	550
FCS-M18-LIX	260	FW-M12KU5W-G-ZF-ME-SH-9	735	IM72-22EX/L	550
FD-48-T317/Ex	776	FW-M12ST5D-G-SB-ME-SH-8	743	IM73-11EX-R/24VUC	556
FD-49-T317/Ex	749	FW-M12ST5W-G-ZF-ME-SH-9	735	IM73-12EX-R/24VUC	556
FDN-DN1	737	FXDP-CSG88-0001	594	IM73-12-R/24VUC	558
FDNL-CSG88-T	596	FXDP-IM16-0001	594	IM73-22EX-R/24VUC	556
FDNL-L0800-T	596	FXDP-IM8-0001	594	IM82-2414/94-265VAC	566
FDNL-L1600-T	596	FXDP-IOM88-0001	594	IM82-2450	566
FDNL-N0800-T	596	FXDP-OM16-0001	594	IM-CC-3X2BU/2BK	576
FDNL-N1600-T	596	FXDP-OM8-0001	594	IM-PROG	574
FDNL-S0800-T	596	FXDP-XSG16-0001	594	IM-PROG II	574
FDNL-S1600-T	596	FXEN-IM16-0001-IP	598	IMS-AI-DI-DI/24VDC	522
FDNP-CPG88-TT	596	FXEN-IM16-0001-IP-DN	598	IMS-AI-DI-DU/24VDC	520
FDNP-L0404G-TT	596	FXEN-IM16-0001-MB	598	IMS-AI-DI-LI/24VDC	522
FDNP-L0808G-TT	596	FXEN-IM16-0001-PN	598	IMS-AI-DLI-22-DLI/L	524
FDNP-L0808H-TT	596	FXEN-XSG16-0001-IP	598	IMS-AI-DLI-DLI/L	524
FDNP-P0808H-TT	596	FXEN-XSG16-0001-MB	598	IMS-AI-DU-DI/24VDC	520
FDNP-P1204G-TT	596	FXEN-XSG16-0001-PN	598	IMS-AI-DU-DU/24VDC	520
FDNP-S0008G-TT	596	HA5131-0	420	IMS-AI-DU-LI/24VDC	520
FDNP-S0008H-TT	596	HA5141-0	420	IMS-AI-LI-DI/24VDC	522
FDNP-S0404G-TT	596	HA8141-0	422	IMS-AI-LI-DU/24VDC	522
FDNP-S0808G-TT	596	HA8241-0	422	IMS-AI-LI-LI/24VDC	524
FDNP-XSG16-TT	596	HAS5131-0	420	IMS-AI-UNI/24VDC	524
FDNQ-CSG44-T	596	HAS5141-0	420	IMS-TI-J/24VDC	538
FDNQ-S0400-T	596	HAS8141-0	422	IMS-TI-K/24VDC	538
FDNQ-S0404G-T	596	HAS8241-0	422	IMS-TI-PT100/24VDC	538

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
IPS	712	JBBS-49-T415B/Ex	754	KLZ2-INT	199
IPSKP4-0,12-SSP4/S90/S2154	732	JBBS-49-T615/3G	752	KLZ3-INT	200
IPSKP4-0,15-SSP4/S90	732	JBBS-49-T615B/Ex	754	KLZ5-INT	200
IPSKP4-0,5-SSP4/S90	732	JBBS-57-E411	739	KMU-40Ex/1GD	750
IPSKP4-10/S90	732	JBBS-57-E811-VM	739	KMU-40Ex/1GD	776
IPSKP4-1-SSP4/S90	732	JRBS-40-12C/Ex	758	KMU-40Ex/3G	750
IPSKP4-2/S90	732	JRBS-40-12C/Ex	784	KMU-40Ex/3G	776
IPSKP4-2-SSP4/S90	732	JRBS-40-12R/Ex	756	KP3-.../P00	392
IPSKP4-5/S90	732	JRBS-40-12R/Ex	782	KP3-.../S90	392
IPSKP4-5-SSP4/S90	732	JRBS-40-4C/Ex	758	KP3-.../XOR	392
IPSWKP4-0,15-SWSP4/S90	732	JRBS-40-4C/Ex	784	KP4-.../P00	392
IPSWKP4-0,5-SWSP4/S90	732	JRBS-40-4R/Ex	756	KP4-.../S90	392
IPSWKP4-10/S90	732	JRBS-40-4R/Ex	782	KP4-.../XOR	392
IPSWKP4-1-SWSP4/S90	732	JRBS-40-6C/Ex	758	LP-MS-T50-K	483
IPSWKP4-2/S90	732	JRBS-40-6C/Ex	784	LP-MS-T50-K-3GD	483
IPSWKP4-2-SWSP4/S90	732	JRBS-40-6R/Ex	756	LP-MS-T50-S	483
IPSWKP4-5/S90	732	JRBS-40-6R/Ex	782	LP-MS-T50-S-3GD	483
IPSWKP4-5-SWSP4/S90	732	JRBS-40-8C/Ex	758	LP-MZ-M30-SB	483
IT23SM8	371	JRBS-40-8C/Ex	784	LPRE-EM30-AP6X2-H1141	247
JBBS-48-E413/3G	778	JRBS-40-8R/Ex	756	LPRE-EM30-RP6X2-H1141	247
JBBS-48-E413/Ex	780	JRBS-40-8R/Ex	782	LPRE-M30-AP6X2-H1141	247
JBBS-48-E613/3G	778	JRBS-40SC-12C/Ex	758	LPRE-T50-UP6X3-H1151	247
JBBS-48-E613/Ex	780	JRBS-40SC-12C/Ex	784	LPRE-T50-UP6X3-H1151/3GD	247
JBBS48-M413/3G	778	JRBS-40SC-12R/Ex	756	LT1000M-Q21-LI0X3-H1141	434
JBBS-48-M413/Ex	780	JRBS-40SC-12R/Ex	784	LT1000M-Q21-LU0X3-H1141	434
JBBS-48-M613/3G	778	JRBS-40SC-4C/Ex	758	LT1000M-Q21-LU2X3-H1141	434
JBBS-48-M613/Ex	780	JRBS-40SC-4C/Ex	784	LT100M-Q21-LI0X3-H1141	432
JBBS-48SC-E413/3G	778	JRBS-40SC-4R/Ex	756	LT100M-Q21-LU0X3-H1141	432
JBBS-48SC-E413/Ex	780	JRBS-40SC-4R/Ex	782	LT100M-Q21-LU2X3-H1141	432
JBBS-48SC-E613/3G	778	JRBS-40SC-6C/Ex	758	LT1100M-Q21-LI0X3-H1141	434
JBBS-48SC-E613/Ex	780	JRBS-40SC-6C/Ex	784	LT1100M-Q21-LU0X3-H1141	434
JBBS-48SC-M413/3G	778	JRBS-40SC-6R/Ex	756	LT1100M-Q21-LU2X3-H1141	434
JBBS-48SC-M413/Ex	780	JRBS-40SC-6R/Ex	782	LT1200M-Q21-LI0X3-H1141	434
JBBS-48SC-M613/3G	778	JRBS-40SC-8C/Ex	758	LT1200M-Q21-LU0X3-H1141	434
JBBS-48SC-M613/Ex	780	JRBS-40SC-8C/Ex	784	LT1200M-Q21-LU2X3-H1141	434
JBBS-48SC-T415/3G	778	JRBS-40SC-8R/Ex	756	LT1250M-Q21-LI0X3-H1141	434
JBBS-48SC-T415B/Ex	780	JRBS-40SC-8R/Ex	782	LT1250M-Q21-LU0X3-H1141	434
JBBS-48SC-T615/3G	778	JS 025/037	479	LT1250M-Q21-LU2X3-H1141	434
JBBS-48SC-T615B/Ex	780	KABEL441-100M/S2174	726	LT1300M-Q21-LI0X3-H1141	434
JBBS-48-T415/3G	778	KABEL451-150M	714	LT1300M-Q21-LU0X3-H1141	434
JBBS-48-T415B/Ex	780	KABEL451-30M	714	LT1300M-Q21-LU2X3-H1141	434
JBBS-48-T615/3G	778	KABEL451-500M	714	LT130M-Q21-LI0X3-H1141	432
JBBS-48-T615B/Ex	780	KABEL572-150M	718	LT130M-Q21-LU0X3-H1141	432
JBBS-49-E413/3G	752	KABEL572-30M	718	LT130M-Q21-LU2X3-H1141	432
JBBS-49-E413/Ex	754	KABEL5723-150M	722	LT1400M-Q21-LI0X3-H1141	434
JBBS-49-E613/3G	752	KABEL5723-30M	722	LT1400M-Q21-LU0X3-H1141	434
JBBS-49-E613/Ex	754	KABEL5723-500M	722	LT1400M-Q21-LU2X3-H1141	434
JBBS49-M413/3G	752	KABEL572-500M	718	LT1500M-Q21-LI0X3-H1141	436
JBBS-49-M413/Ex	754	Kabel-Blident-100m	467	LT1500M-Q21-LU0X3-H1141	436
JBBS-49-M613/3G	752	KABEL-DN-43-150M	730	LT1500M-Q21-LU2X3-H1141	436
JBBS-49-M613/Ex	754	KABEL-DN-43-30M	730	LT150M-Q21-LI0X3-H1141	432
JBBS-49SC-E413/3G	752	KABEL-DN-43-500M	730	LT150M-Q21-LU0X3-H1141	432
JBBS-49SC-E413/Ex	754	KABEL-PDP-52-150M	728	LT150M-Q21-LU2X3-H1141	432
JBBS-49SC-E613/3G	752	KABEL-PDP-52-30M	728	LT1600M-Q21-LI0X3-H1141	436
JBBS-49SC-E613/Ex	754	KABEL-PDP-52-500M	728	LT1600M-Q21-LU0X3-H1141	436
JBBS-49SC-M413/3G	752	KLDT-UNT2	197	LT1600M-Q21-LU2X3-H1141	436
JBBS-49SC-M413/Ex	754	KLDT-UNT3	198	LT1700M-Q21-LI0X3-H1141	436
JBBS-49SC-M613/3G	752	KLDT-UNT4	198	LT1700M-Q21-LU0X3-H1141	436
JBBS-49SC-M613/Ex	754	KLDT-UNT5	198	LT1700M-Q21-LU2X3-H1141	436
JBBS-49SC-T415/3G	752	KLDT-UNT6	199	LT1750M-Q21-LI0X3-H1141	436
JBBS-49SC-T415B/Ex	754	KLR-UNT1	197	LT1750M-Q21-LU0X3-H1141	436
JBBS-49SC-T615/3G	752	KLR-UNT2	197	LT1750M-Q21-LU2X3-H1141	436
JBBS-49SC-T615B/Ex	754	KLR-UNT3	197	LT175M-Q21-LI0X3-H1141	432
JBBS-49-T415/3G	752	KLZ1-INT	199	LT175M-Q21-LU0X3-H1141	432

Typenverzeichnis
Index of types
Liste de types

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
LT175M-Q21-LU2X3-H1141	432	LT500M-Q21-LI0X3-H1141	432	MK13-121AEX0-R/24VDC	498
LT1800M-Q21-LI0X3-H1141	436	LT500M-Q21-LU0X3-H1141	432	MK13-12AEX0-R/230VAC	498
LT1800M-Q21-LU0X3-H1141	436	LT500M-Q21-LU2X3-H1141	432	MK13-12AEX0-R/24VDC	498
LT1800M-Q21-LU2X3-H1141	436	LT550M-Q21-LI0X3-H1141	432	MK13-22AEX0-R/230VAC	500
LT1900M-Q21-LI0X3-H1141	436	LT550M-Q21-LU0X3-H1141	432	MK13-22AEX0-R/24VDC	500
LT1900M-Q21-LU0X3-H1141	436	LT550M-Q21-LU2X3-H1141	432	MK13-22N-EX0/24VDC	500
LT1900M-Q21-LU2X3-H1141	436	LT600M-Q21-LI0X3-H1141	434	MK13-22P-EX0/24VDC	500
LT2000M-Q21-LI0X3-H1141	436	LT600M-Q21-LU0X3-H1141	434	MK13-N-EX0/24VDC	496
LT2000M-Q21-LU0X3-H1141	436	LT600M-Q21-LU2X3-H1141	434	MK13-P-EX0/24VDC	496
LT2000M-Q21-LU2X3-H1141	436	LT650M-Q21-LI0X3-H1141	434	MK13-PF-EX0/24VDC	496
LT200M-Q21-LI0X3-H1141	432	LT650M-Q21-LU0X3-H1141	434	MK13-PN-EX0/24VDC	496
LT200M-Q21-LU0X3-H1141	432	LT650M-Q21-LU2X3-H1141	434	MK13-R-EX0	498
LT200M-Q21-LU2X3-H1141	432	LT700M-Q21-LI0X3-H1141	434	MK15-12EX0-PN/24VDC	498
LT2250M-Q21-LI0X3-H1141	436	LT700M-Q21-LU0X3-H1141	434	MK31-111EX0-LI/24VDC	528
LT2250M-Q21-LU0X3-H1141	436	LT700M-Q21-LU2X3-H1141	434	MK31-111-LI/24VDC	516
LT2250M-Q21-LU2X3-H1141	436	LT750M-Q21-LI0X3-H1141	434	MK31-112-LU/24VDC	518
LT225M-Q21-LI0X3-H1141	432	LT750M-Q21-LU0X3-H1141	434	MK31-11EX0-LI/24VDC	528
LT225M-Q21-LU0X3-H1141	432	LT750M-Q21-LU2X3-H1141	434	MK31-11EX0-LU/24VDC	526
LT225M-Q21-LU2X3-H1141	432	LT800M-Q21-LI0X3-H1141	434	MK31-11-LI/24VDC	518
LT2500M-Q21-LI0X3-H1141	436	LT800M-Q21-LU0X3-H1141	434	MK31-11-LU/24VDC	516
LT2500M-Q21-LU2X3-H1141	436	LT800M-Q21-LU2X3-H1141	434	MK32-11EX0-LI/24VDC	536
LT250M-Q21-LI0X3-H1141	432	LT850M-Q21-LI0X3-H1141	434	MK33-11EX0-LI/24VDC	530
LT250M-Q21-LU0X3-H1141	432	LT850M-Q21-LU0X3-H1141	434	MK33-11EX0-PLI/24VDC	530
LT250M-Q21-LU2X3-H1141	432	LT850M-Q21-LU2X3-H1141	434	MK35-11EX0-LI/24VDC	532
LT2750M-Q21-LI0X3-H1141	436	LT900M-Q21-LI0X3-H1141	434	MK35-11EX0-LU/24VDC	532
LT2750M-Q21-LU0X3-H1141	436	LT900M-Q21-LU0X3-H1141	434	MK43-111-R/24VDC	546
LT2750M-Q21-LU2X3-H1141	436	LT900M-Q21-LU2X3-H1141	434	MK72-S01-EX/24VDC	550
LT3000M-Q21-LI0X3-H1141	436	LT950M-Q21-LI0X3-H1141	434	MK72-S01-EX/24VDC/FM	550
LT3000M-Q21-LU0X3-H1141	436	LT950M-Q21-LU0X3-H1141	434	MK72-S02-EX/24VDC/FM	552
LT3000M-Q21-LU2X3-H1141	436	LT950M-Q21-LU2X3-H1141	434	MK72-S10-EX0/24VDC	552
LT300M-Q21-LI0X3-H1141	432	LWL-KS-SFOC-0002	645	MK72-S13-EX0/24VDC	552
LT300M-Q21-LU0X3-H1141	432	LWL-SL-SFOC-0002	645	MK72-S19-EX0/24VDC	552
LT300M-Q21-LU2X3-H1141	432	M12x1 Befestigungsclip	424	MK73-R11/230VAC/24VUC	560
LT3250M-Q21-LI0X3-H1141	436	MAP-K40	481	MK73-R12/230VAC	558
LT3250M-Q21-LU0X3-H1141	436	MAP-M18	481	MK73-R12/24VUC	558
LT3250M-Q21-LU2X3-H1141	436	MAP-M30	481	MK73-R22/24VUC	560
LT3500M-Q21-LI0X3-H1141	436	MB-4M12-5.4P2	428	MK73-R22A/24VUC	560
LT3500M-Q21-LU0X3-H1141	436	MB-4M12-5.4P2/S2000	428	MK73-R22E/24VUC	560
LT3500M-Q21-LU2X3-H1141	436	MB-4M12-5P3	428	MK73-S01/24VDC	558
LT350M-Q21-LI0X3-H1141	432	MB-4M12-5P3/S2000	428	MK73-T22A/24VDC	560
LT350M-Q21-LU0X3-H1141	432	MB-8M12-5.4P2	428	MK73-T44A/24VDC	560
LT350M-Q21-LU2X3-H1141	432	MB-8M12-5.4P2/S2000	428	MK73-UR12/K03/24VDC	558
LT360M-Q21-LI0X3-H1141	432	MB-8M12-5P3	428	MK81-11-R/48...250VUC	562
LT360M-Q21-LU0X3-H1141	432	MB-8M12-5P3/S2000	428	MK82-2401/230VUC	566
LT360M-Q21-LU2X3-H1141	432	MBD48-T415/Ex	776	MK91-121-R/24VDC	570
LT3750M-Q21-LI0X3-H1141	436	MBD49-T415/Ex	750	MK91-12-R/230VAC	570
LT3750M-Q21-LU0X3-H1141	436	MBS40	470	MK91-12-R/24VDC	570
LT3750M-Q21-LU2X3-H1141	436	MBS65	470	MK91-R11/24VDC	570
LT4000M-Q21-LI0X3-H1141	436	MC96-12EX0-R/24VDC	272	MK96-11-R/24VDC	272
LT4000M-Q21-LU0X3-H1141	438	MF-CK40-1S	464, 479	MK96-Li01	272
LT4000M-Q21-LU2X3-H1141	438	MF-CK40-2S	464, 480	MK96-VN01	272
LT400M-Q21-LI0X3-H1141	432	MF-CK40-3S	465, 480	MK96-VP01	272
LT400M-Q21-LU0X3-H1141	432	MF-R30	466	MS1-12EX0-R	502
LT400M-Q21-LU2X3-H1141	432	MF-R50	466	MS1-22EX0-R	504
LT4250M-Q21-LI0X3-H1141	438	MF-R80	466	MS13-12EX0-R	502
LT4250M-Q21-LU0X3-H1141	438	MH-Q14	478	MS13-22EX0-R	504
LT4250M-Q21-LU2X3-H1141	438	MH-Q20	479	MS13-22EX0-T	502
LT4500M-Q21-LI0X3-H1141	438	MK1-22N-EX0/24VDC	500	MS13-231EX0-R	502
LT4500M-Q21-LU0X3-H1141	438	MK1-22P-EX0/24VDC	500	MS13-33EX0-R	506
LT4500M-Q21-LU2X3-H1141	438	MK1-2AP/24VDC	490	MS1-33EX0-R	504
LT450M-Q21-LI0X3-H1141	432	MK1-2RP/24VDC	490	MS1-33EX0-T	504
LT450M-Q21-LU0X3-H1141	432	MK13-11AEX0-R/230VAC	498	MS22-RI	512
LT450M-Q21-LU2X3-H1141	432	MK13-11AEX0-R/24VDC	498	MS23-R	512
		MK13-121AEX0-R/230VAC	498	MS24-112-R	510

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
MS24-R	512	NI10U-EM12WD-AN6X-H1141	64	NI15-G30SK-Y1X	140
MS25-UI	510	NI10U-EM12WD-AN6X-H1141/3D	64	NI15-G30-Y1X	134
MS27-R	512	NI10U-EM12WD-AP6X	78	NI15-M30-AD4X	134
MS31-LIU/230VAC	518	NI10U-EM12WD-AP6X-H1141	64	NI15-M30-AD4X-H1141	122
MS31-LIU/24VDC	518	NI10U-EM12WD-AP6X-H1141/3D	64	NI15-M30-AN6X	134
MS41-42EX0-R	546	NI10U-EM12WDTC-AP6X	82	NI15-M30-AN6X-H1141	122
MS43-R	546	NI10U-M12-AN6X	78	NI15-M30-AP6X	134
MS81-221-R/230VAC	562	NI10U-M12-AN6X-H1141	64	NI15-M30-AP6X/S100	134
MS81-222-R/230VAC	562	NI10U-M12-AN6X-V1131	56	NI15-M30-AP6X/S120	136
MS91-12-R	570	NI10U-M12-AP6X	78	NI15-M30-AP6X-H1141	122
MS96-11EX0-R/115VAC	272	NI10U-M12-AP6X-H1141	64	NI15-M30-AZ3X	134
MS96-11EX0-R/230VAC	272	NI10U-M12-AP6X-V1131	56	NI15-M30-AZ3X/S120	136
MS96-11EX0-R/24VDC	272	NI10U-M12E-AP6X-H1141	68	NI15-M30E-LIU-H1141	180
MS96-12R/115VAC	272	NI10U-M12E-VN44X	80	NI15-M30-LIU	182
MS96-12R/230VAC	272	NI10U-M12E-VN44X-H1141	68	NI15-M30-LIU-H1141	180
MS96-12R/24VDC	272	NI10U-M12E-VP44X	80	NI15-M30-VN4X	134
MW-08	471	NI10U-M12E-VP44X-H1141	68	NI15-M30-VP4X	134
MW-12	473	NI10U-M12-RP6X-H1141	64	NI15-M30-VP4X-H1141	122
MW-18	475	NI10U-M18M-AD4X	108	NI15-M30-Y1X-H1141	122
MW-30	477	NI10U-M18M-AD4X-H1144	94	NI15-P30SK-AN6X	140
MW47	478	NI10U-MT12-AN6X-H1141	64	NI15-P30SK-AP6X	140
MW-Q08/Q10	478	NI10U-MT12-AP6X-H1141	64	NI15-P30SK-Y1X	136
MW-Q14/Q20	479	NI10U-MT18M-AD4X-H1144	94	NI15-P30SR-AN6X	140
NC20-KT34-VN4X2	208	NI12U-EG18SK-AN6X	114	NI15-P30SR-AP6X	140
NC20-KT34-VP4X2	208	NI12U-EG18SK-AP6X	114	NI15-P30SR-FZ3X2	140
NC50-CP80-FZ3X2	236	NI12U-EG18SK-VN4X	114	NI15-P30SR-VN4X2	140
NC50-CP80-VN4X2	218	NI12U-EG18SK-VP4X	114	NI15-P30SR-VP4X2	140
NC50-CP80-VP4X2	218	NI12U-EM18-AN6X	106	NI15-P30-Y1/S100	126
NC50-CP80-VP4X2-H1141	218	NI12U-EM18-AN6X-H1141	92	NI15-P30-Y1X	126
NI100R-S32XL-2LU-H1141/S950	184	NI12U-EM18-AP6X	104	NI15-P30-Y1X/S97	126
NI100U-K90SR-VN4X2	40	NI12U-EM18-AP6X-H1141	92	NI15-Q30-AN6X	24
NI100U-K90SR-VN4X2-H1141	40	NI12U-G18-ADZ30X2-B1331	96	NI15-Q30-AP6X	24
NI100U-K90SR-VP4X2	40	NI12U-G18-ADZ30X2-B3331	94	NI15-S30-AD4X	128
NI100U-K90SR-VP4X2-H1141	40	NI12U-K20SK-AN6X	154	NI15-S30-AN6X	128
NI10-EG18SK-Y1X	116	NI12U-K20SK-AP6X	154	NI15-S30-AN6X-H1141	124
NI10-EG18-Y1X/S100 7M	104	NI12U-M18-ADZ30X2	108	NI15-S30-AP6X	128
NI10-EM18-Y1X-H1141	92	NI12U-M18-AN6X	104	NI15-S30-AP6X-H1141	124
NI10-G18K-AN6X	104	NI12U-M18-AN6X-H1141	92	NI15-S30-AZ3X	128
NI10-G18K-AP6X	104	NI12U-M18-AP6X	104	NI15-S30-AZ3X/S100	128
NI10-G18SK-AN6X	114	NI12U-M18-AP6X-H1141	92	NI15-S30-AZ3X/S97	128
NI10-G18SK-AP6X	114	NI12U-M18E-AP6X-H1141	94	NI15-S30-VP4X/S100	128
NI10-G18SK-Y1X	116	NI12U-M18M-VN4X	108	NI15-S30-VP4X/S97	128
NI10-G18-Y1X	104	NI12U-M18M-VN4X-H1141	94	NI15U-CA25-AP6X2-H1141	24
NI10-K20-AN6X	152	NI12U-M18M-VP4X	108	NI15U-CA25-AP6X2-V1131	24
NI10-K20-AP6X	152	NI12U-M18M-VP4X-H1141	94	NI15U-EM18MWD-VP44X-H1141	94
NI10-K20-AP6X-H1141	152	NI12U-MT18-AN6X-H1141	92	NI15U-EM18WD-AN6X	104
NI10-K20-AZ3X	154	NI12U-MT18-AP6X-H1141	92	NI15U-EM18WD-AN6X-H1141	92
NI10-K20SK-AN6X	154	NI12U-P18SK-AN6X	114	NI15U-EM18WD-AN6X-H1141/3D	92
NI10-K20SK-AP6X	154	NI12U-P18SK-AP6X	114	NI15U-EM18WD-AP6X	104
NI10-K20SK-AZ3X	154	NI12U-S18-AN6X	108	NI15U-EM18WD-AP6X-H1141	92
NI10-K20-Y1	152	NI12U-S18-AN6X-H1141	88	NI15U-EM18WD-AP6X-H1141/3D	92
NI10-M18E-LIU-H1141	176	NI12U-S18-AP6X	108	NI15U-EM18WDTC-AP6X	116
NI10-M18-LIU	180	NI12U-S18-AP6X-H1141	88	NI15U-M18-AN6X	104
NI10-M18-Y1X-H1141	92	NI14-G18-Y1X	104	NI15U-M18-AN6X-H1141	92
NI10-P18SK-AN6X	114	NI15-EG30SK-Y1X	140	NI15U-M18-AP6X	104
NI10-P18SK-AP6X	114	NI15-EG30-Y1X/S100 7M	140	NI15U-M18-AP6X-H1141	90
NI10-P18SK-Y1X	114	NI15-EM30-AP6/S907	136	NI15U-M18M-VN44X	108
NI10-P18-Y1/S100	96	NI15-EM30D-VP6X/S120	136	NI15U-M18M-VN44X-H1141	94
NI10-P18-Y1X	96	NI15-EM30-VN4X 7M	134	NI15U-M18M-VP44X	108
NI10-P18-Y1X/S97	96	NI15-EM30-VP4X 7M	134	NI15U-M18M-VP44X-H1141	94
NI10-Q25-AN6X	22	NI15-EM30-Y1X-H1141	122	NI15U-M18-RP6X-H1141	92
NI10-Q25-AP6X	22	NI15-G30K-AN6X	134	NI15U-M30-AD4X	134
NI10U-EM12EWD-VP44X-H1141	68	NI15-G30SK-AN6X	142	NI15U-M30-AD4X-H1144	122
NI10U-EM12WD-AN6X	78	NI15-G30SK-AP6X	142	NI15U-MT18-AN6X-H1141	92

Typenverzeichnis
Index of types
Liste de types

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
NI15U-MT18-AP6X-H1141	92	NI20U-TS12-AN6X2-V1131	20	NI3-EG08K-AP6X	54
NI15U-MT30-AD4X-H1144	122	NI20U-TS12-AP6X2-V1131	20	NI3-EG08K-AP6X-H1341	48
NI20-CK40-AD4X-H1141	28	NI22U-Q40-AP6X2-H1141	26	NI3-EG08K-AP6X-V1131	44
NI20-CK40-AN6X2-H1141	26	NI25-CK40-LIU2-H1141	172	NI3-EG08K-Y1	54
NI20-CK40-AP6X2-H1141	26	NI25-CK40-LIU-H1141	172	NI3-EG08K-Y1-H1341	48
NI20-CK40-Y1X-H1141	28	NI25-CP40-LIU	174	NI3-EH6,5-AN6X	150
NI20-CP40-AD4X	34	NI25-CQP40/S1102 5M	34	NI3-EH6,5-AN6X-V1131	148
NI20-CP40-AN6X2	32	NI25-G47-AN4X	142	NI3-EH6,5-AP6X	150
NI20-CP40-AP6X2	32	NI25-G47-AP4X	142	NI3-EH6,5-AP6X-V1131	146
NI20-CP40-FZ3X2	32	NI25-G47-AZ3X	142	NI3-EH6,5K-AN6X	150
NI20-CP40-FZ3X2/S100	32	NI25-Q20-AN6X2	22	NI3-EH6,5K-AN6X-V1131	146
NI20-CP40-FZ3X2/S97	32	NI25-Q20-AN6X2-H1141	22	NI3-EH6,5K-AP6X	150
NI20-CP40-VN4X2	32	NI25-Q20-AP6X2	22	NI3-EH6,5K-AP6X-V1131	146
NI20-CP40-VP4X2	32	NI25-Q20-AP6X2-H1141	22	NI3-EH6,5K-Y1	150
NI20-CP40-VP4X2/S100	32	NI25U-CK40-AN6X2-H1141	26	NI40-CP80-FZ3X2	40
NI20-CP40-VP4X2/S97	32	NI25U-CK40-AP6X2-H1141	26	NI40-CP80-FZ3X2/S100	40
NI20-CP40-Y1X	34	NI25U-CK40-VP4X2-H1141	26	NI40-CP80-FZ3X2/S97	40
NI20-CP40-Y1X/S100	34	NI2-Q6,5-AN6	12	NI40-CP80-VN4X2	40
NI20-CP40-Y1X/S97	34	NI2-Q6,5-AP6/S34	12	NI40-CP80-VP4X2	40
NI20-G30K-AD4X	134	NI2-Q9,5-AP6	16	NI40-CP80-VP4X2/S100	40
NI20-K34SR-VP4X2	154	NI2-Q9,5-AP6/S34	16	NI40-CP80-VP4X2/S97	40
NI20-K34-VP4X	154	NI3,5-Q5,5-AN6X	10	NI40-CP80-Y1	36
NI20-K40SR-AN6X	156	NI3,5-Q5,5-AP6X	10	NI40-CP80-Y1/S100	38
NI20-K40SR-AP6X	156	NI30-K40SR-FZ3X2	154	NI40-CP80-Y1/S97	36
NI20-K40SR-FZ3X2	156	NI30-K40SR-VN4X2	154	NI40-G47SR-FZ3X2	142
NI20-K40SR-VN4X2	156	NI30-K40SR-VP4X2	154	NI40-G47SR-VN4X2	142
NI20-K40SR-VP4X2	154	NI30-Q130-ADZ30X2	42	NI40-G47SR-VP4X2	142
NI20-M30-AD4X	134	NI30-Q130-ADZ30X2-B1131	42	NI40U-CK40-AP6X2-H1141	28
NI20-M30-AD4X-H1141	122	NI30-Q130-VN4X2	42	NI40U-CP40-AN6X2	34
NI20NF-CP40-FZ3X2	32	NI30-Q130-VP4X2	42	NI40U-CP40-AP6X2	34
NI20NF-CP40-VN4X2	32	NI30U-EM30WD-AN6X-H1141/3D	122	NI40U-CP40-FDZ30X2	32
NI20NF-CP40-VP4X2	32	NI30U-EM30WD-AP6X-H1141/3D	120	NI40U-CP40-VN4X2	32
NI20-Q14-AN6X2	20	NI30U-EM30WDT-AP6X	140	NI40U-CP40-VP4X2	32
NI20-Q14-AN6X2-V1131	20	NI30U-EM30WD-VP44X-H1141	120	NI40U-CP40-VP4X2-H1141	32
NI20-Q14-AP6X2	20	NI30U-M30-AN6X	134	Ni4-DSU35-2ADZ30X2	168
NI20-Q14-AP6X2-V1131	20	NI30U-M30-AN6X-H1141	120	Ni4-DSU35-2ADZ30X2-B1160-	
NI20U-EG30SK-AN6X	140	NI30U-M30-AP6X	134	FKE4.5	168
NI20U-EG30SK-AP6X	138	NI30U-M30-AP6X-H1141	120	Ni4-DSU35-2AP4X2	168
NI20U-EG30SK-VN4X	140	NI30U-M30-RP6X-H1141	120	Ni4-DSU35-2AP4X2-B1160-FKE4.5	168
NI20U-EG30SK-VP4X	138	NI30U-M30-VN44X	134	Ni4-DSU35-2AP4X2-H1141	168
NI20U-EM30-AN6X	134	NI30U-M30-VN44X-H1141	122	Ni4-DSU35-2ASIX4-H1140	168
NI20U-EM30-AN6X-H1141	122	NI30U-M30-VP44X	134	Ni4-DSU35-2ASIX4-H1150	168
NI20U-EM30-AP6X	134	NI30U-M30-VP44X-H1141	120	Ni4-DSU35-2Y1X2	168
NI20U-EM30-AP6X-H1141	122	NI30U-MT30-AN6X-H1141	120	Ni4-DSU35-2Y1X2-B1160-FKE4.3	168
NI20U-EM30-VP4X	134	NI30U-MT30-AP6X-H1141	120	Ni4-DSU35-2Y1X2-H1140	168
NI20U-G30-ADZ30X2-B1131	124	NI35-CK40-AP6X2-H1141	26	Ni4-DSU35TC-2AD4X2	170
NI20U-G30-ADZ30X2-B3131	124	NI35-CP40-FZ3X2	32	Ni4-DSU35TC-2ADZ30X2	170
NI20U-M30-ADZ30X2	134	NI35-CP40-VN4X2	32	Ni4-DSU35TC-2AP4X2	170
NI20U-M30-AN6X	134	NI35-CP40-VP4X2	32	Ni4-DSU35TC-2AP4X2/3GD	170
NI20U-M30-AN6X-H1141	122	NI35-CP40-Y1X/S100	34	Ni4-DSU35TC-2ASIX4	170
NI20U-M30-AP6X	134	NI35U-CK40-AD4X-H1144	28	Ni4-DSU35TC-2Y1X2	170
NI20U-M30-AP6X-H1141	122	NI35U-CK40-ADZ30X2-B1131	28	Ni4-DSU35TC-2Y1X2/S933	170
NI20U-M30-VN4X	134	NI35U-CK40-ADZ30X2-B3131	28	Ni4-DSU35TC-2Y1X2/S97	170
NI20U-M30-VN4X-H1141	122	NI35U-CK40-AN6X2-H1141	28	NI4-EG08-AG41X	54
NI20U-M30-VP4X	134	NI35U-CK40-AP6X2-H1141	28	NI4-EM12D-AP6/S120	78
NI20U-M30-VP4X-H1141	122	NI3-EG08-AN6X	54	NI4-EM12-VN6X 7M	78
NI20U-MT30-AN6X-H1141	122	NI3-EG08-AN6X-H1341	50	NI4-EM12-VP6X 7M	78
NI20U-MT30-AP6X-H1141	122	NI3-EG08-AN6X-V1131	46	NI4-EM12WD-AP6/S929	78
NI20U-P30SK-AN6X	140	NI3-EG08-AP6X	54	NI4-M12-AD4X	78
NI20U-P30SK-AP6X	140	NI3-EG08-AP6X-H1341	50	NI4-M12-AD4X-H1141	66
NI20U-S30-AN6X	128	NI3-EG08-AP6X-V1131	46	NI4-M12-AN6X	78
NI20U-S30-AN6X-H1141	120	NI3-EG08K-AN6X	54	NI4-M12-AN6X-H1141	64
NI20U-S30-AP6X	128	NI3-EG08K-AN6X-H1341	48	NI4-M12-AP6X	78
NI20U-S30-AP6X-H1141	120	NI3-EG08K-AN6X-V1131	44	NI4-M12-AP6X/S100	78

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
NI4-M12-AP6X-H1141	64	NI5-Q18-AP6X	22	NI8-S18-AZ3X	108
NI4-M12-AZ31X	80	NI5U-M12E-AD4X	80	NI8-S18-AZ3X/S100	108
NI4-M12-VN6X	78	NI5U-M12E-AD4X-H1144	68	NI8-S18-AZ3X/S97	108
NI4-M12-VN6X-H1141	66	NI5U-MT12E-AD4X-H1144	68	NI8-S18-VP4X/S100	108
NI4-M12-VP6X	78	NI60-K90SR-FZ3X2	40	NI8-S18-VP4X/S97	108
NI4-M12-VP6X-H1141	64	NI60-K90SR-VN4X2	40	NI8U-EG12SK-AN6X	82
NI4-Q12-AZ31X	18	NI60-K90SR-VP4X2	40	NI8U-EG12SK-AP6X	82
NI4-S12-AD4X	72	NI60-Q80-Y1X	36	NI8U-EG12SK-VN4X	82
NI4-S12-AN6X	72	NI6U-EG08-AN6X	54	NI8U-EG12SK-VP4X	82
NI4-S12-AP6X	72	NI6U-EG08-AN6X-H1341	50	NI8U-EM12-AN6X	78
NI4-S12-AP6X/S100	72	NI6U-EG08-AN6X-V1131	46	NI8U-EM12-AN6X-H1141	64
NI4-S12-AP6X/S97	72	NI6U-EG08-AP6X	54	NI8U-EM12-AP6X	78
NI4-S12-AP6X-H1141	62	NI6U-EG08-AP6X-H1341	50	NI8U-EM12-AP6X-H1141	64
NI4-S12-AZ31X	72	NI6U-EG08-AP6X-V1131	46	NI8U-G12-ADZ32X-B3131	68
NI4-S12-AZ31X/S100	72	NI6U-EG08-RP6X-H1341	50	NI8U-M12-AN6X	78
NI4-S12-AZ31X/S97	72	NI6U-EG08-RP6X-V1131	46	NI8U-M12-AN6X-H1141	64
NI4U-EG08-AN6X	54	NI6U-EH6,5-AN6X	150	NI8U-M12-AP6X	78
NI4U-EG08-AN6X-H1341	50	NI6U-EH6,5-AN6X-V1131	146	NI8U-M12-AP6X-H1141	64
NI4U-EG08-AN6X-V1131	46	NI6U-EH6,5-AP6X	150	NI8U-M12EE-AP6X-H1141	62
NI4U-EG08-AP6X	54	NI6U-EH6,5-AP6X-V1131	146	NI8U-M12E-VN4X	80
NI4U-EG08-AP6X-H1341	50	NI6U-EH6,5-RP6X-V1131	146	NI8U-M12E-VN4X-H1141	68
NI4U-EG08-AP6X-V1131	46	NI70U-Q80-AP6X2-H1141	36	NI8U-M12E-VP4X	80
NI4U-Q8SE-AN6X	14	NI70U-Q80-VP4X2-H1141	36	NI8U-M12E-VP4X-H1141	68
NI4U-Q8SE-AN6X-V1131	14	NI75U-CP80-AN6X2	40	NI8U-MT12-AN6X-H1141	64
NI4U-Q8SE-AP6X	14	NI75U-CP80-AP6X2	40	NI8U-MT12-AP6X-H1141	64
NI4U-Q8SE-AP6X-V1131	14	NI75U-CP80-FDZ30X2	40	NI8U-P12SK-AN6X	82
NI4U-Q8SE-RP6X-V1131	14	NI75U-CP80-VN4X2	40	NI8U-P12SK-AP6X	82
NI50-CP80-FZ3X2	40	NI75U-CP80-VP4X2	40	NI8U-S12-AN6X	70
NI50-CP80-VN4X2	40	NI75U-CP80-VP4X2-H1141	36	NI8U-S12-AN6X-H1141	60
NI50-CP80-VP4X2	40	NI7-EM18D-VP6X/S120	110	NI8U-S12-AP6X	70
NI50-K90SR-Y1	42	NI7-EM18WD-AP6X/S929	110	NI8U-S12-AP6X-H1141	60
NI50-Q80-LIU-H1141	174	NI8-EM18-AP6/S907	110	PB-08/03	574
NI50U-CK40-AN6X2-H1141	28	NI8-EM18-VN4X 7M	106	PB-16/03	574
NI50U-CK40-AP6X2-H1141	28	NI8-EM18-VP4X 7M	106	PB-32/03	574
NI50U-CK40-VN4X2-H1141	28	NI8-G12K-AD4X	74	PBP26U	372
NI50U-CK40-VP4X2-H1141	28	NI8-M12-AD4X	78	PBP46U	372
NI50U-CK40-VP4X2-H1141/3GD	28	NI8-M12-AD4X-H1141	64	PBPMSB36U	372
NI50U-CP40-AN6X2	32	NI8-M12-AN6X-H1141	64	PBT26U	372
NI50U-CP40-AP6X2	32	NI8-M12-AP6X-H1141	64	PBT46U	372
NI50U-CP40-AP6X2-H1141	32	NI8-M18-AD4X	106	PBT46UHF	372
NI50U-CP40-VN4X2	32	NI8-M18-AD4X-H1141	92	PBT46UHT1	372
NI50U-CP40-VP4X2	32	NI8-M18-AN6X	106	PCS-G1/4A4	482
NI5-EG12SK-Y1X	82	NI8-M18-AN6X-H1141	92	PCS-MB	482
NI5-EG12-Y1X/S100 7M	74	NI8-M18-AP6X	106	PCV-G1/2A4	482
NI5-EM12-Y1X-H1141	64	NI8-M18-AP6X/S100	106	PCV-G1/4A4	482
NI5-G12K-AN6X	74	NI8-M18-AP6X/S120	110	PCV-G1/8A4	482
NI5-G12K-AP6X	74	NI8-M18-AP6X-H1141	92	PCV-N1/2A4	482
NI5-G12SK-AN6X	82	NI8-M18-AZ3X	108	PDA-IDENT	468
NI5-G12SK-AP6X	82	NI8-M18-AZ3X/S120	110	PDA-IDENT-EA	468
NI5-G12SK-Y1X	82	NI8-M18E-LIU-H1141	176	PDA-IDENT-IA	468
NI5-G12-Y1X	74	NI8-M18-LIU	180	PD-IDENT	468
NI5-K11-AP6X	152	NI8-M18-VN4X	106	PD-IDENT-BC	469
NI5-K11SK-AP6X	152	NI8-M18-VN4X-H1141	92	PD-Ident-CB	469
NI5-K11-Y1	152	NI8-M18-VP4X	106	PD-Ident-DS	469
NI5-M12-LIU	176	NI8-M18-VP4X-H1141	92	PD-Ident-PF	469
NI5-M12-LIU-H1141	176	NI8-P18-AN6/S139-S90	102	PD-Ident-RB	469
NI5-M12-Y1X-H1141	64	NI8-P18-AP6/S139-S90	102	PD-Ident-RS	469
NI5-P12SK-AN6X	82	NI8-P18-AZ3/S139-S90	102	PD-IDENT-RWBCS	468
NI5-P12SK-AP6X	82	NI8-P18-Y1/S139	102	PD-IDENT-WLAN	468
NI5-P12SK-Y1X	80	NI8-S18-AD4X	108	PDP-TRA	734
NI5-P12-Y1/S100	76	NI8-S18-AN6X	108	PIA26U	373
NI5-P12-Y1X	76	NI8-S18-AN6X-H1141	88	PIT26U	373
NI5-P12-Y1X/S97	76	NI8-S18-AP6X	108	PIT46U	372
NI5-Q18-AN6X	22	NI8-S18-AP6X-H1141	88	PIT46UHF	372

Typenverzeichnis
Index of types
Liste de types

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
PIT46UHT1	372	PS001V-508-2UPN8X-H1141	298	PS010V-505-LI2UPN8X-H1141	310
PN-M12	473	PS001V-508-LI2UPN8X-H1141	308	PS010V-505-LUUPN8X-H1141	322
PN-M18	476	PS001V-508-LUUPN8X-H1141	320	PS010V-508-2UPN8X-H1141	298
PN-M30	478	PS001V-606-2UPN8X-H1141	324	PS010V-508-LI2UPN8X-H1141	308
PS001R-401-2UPN8X-H1141	276	PS001V-606-LI2UPN8X-H1141	328	PS010V-508-LUUPN8X-H1141	320
PS001R-401-LI2UPN8X-H1141	282	PS001V-606-LUUPN8X-H1141	332	PS010V-606-2UPN8X-H1141	324
PS001R-401-LUUPN8X-H1141	290	PS003V-401-2UPN8X-H1141	276	PS010V-606-LI2UPN8X-H1141	328
PS001R-402-2UPN8X-H1141	278	PS003V-401-LI2UPN8X-H1141	282	PS010V-606-LUUPN8X-H1141	332
PS001R-402-LI2UPN8X-H1141	286	PS003V-401-LUUPN8X-H1141	290	PS010V-609-2UPN8X-H1141	324
PS001R-402-LUUPN8X-H1141	294	PS003V-402-2UPN8X-H1141	278	PS010V-609-LI2UPN8X-H1141	326
PS001R-403-2UPN8X-H1141	276	PS003V-402-LI2UPN8X-H1141	286	PS010V-609-LUUPN8X-H1141	330
PS001R-403-LI2UPN8X-H1141	284	PS003V-402-LUUPN8X-H1141	294	PS016V-401-2UPN8X-H1141	276
PS001R-403-LUUPN8X-H1141	292	PS003V-501-2UPN8X-H1141	276	PS016V-401-LI2UPN8X-H1141	282
PS001R-404-2UPN8X-H1141	276	PS003V-501-LI2UPN8X-H1141	284	PS016V-401-LUUPN8X-H1141	290
PS001R-404-LI2UPN8X-H1141	280	PS003V-501-LUUPN8X-H1141	292	PS016V-402-2UPN8X-H1141	278
PS001R-404-LUUPN8X-H1141	288	PS003V-502-2UPN8X-H1141	276	PS016V-402-LI2UPN8X-H1141	286
PS001R-501-2UPN8X-H1141	296	PS003V-502-LI2UPN8X-H1141	280	PS016V-402-LUUPN8X-H1141	294
PS001R-501-LI2UPN8X-H1141	302	PS003V-502-LUUPN8X-H1141	288	PS016V-403-2UPN8X-H1141	276
PS001R-501-LUUPN8X-H1141	314	PS003V-503-2UPN8X-H1141	296	PS016V-403-LI2UPN8X-H1141	284
PS001R-502-2UPN8X-H1141	298	PS003V-503-LI2UPN8X-H1141	302	PS016V-403-LUUPN8X-H1141	292
PS001R-502-LI2UPN8X-H1141	306	PS003V-503-LUUPN8X-H1141	314	PS016V-404-2UPN8X-H1141	276
PS001R-502-LUUPN8X-H1141	318	PS003V-504-2UPN8X-H1141	298	PS016V-404-LI2UPN8X-H1141	280
PS001R-503-2UPN8X-H1141	296	PS003V-504-LI2UPN8X-H1141	306	PS016V-404-LUUPN8X-H1141	288
PS001R-503-LI2UPN8X-H1141	304	PS003V-504-LUUPN8X-H1141	318	PS016V-501-2UPN8X-H1141	296
PS001R-503-LUUPN8X-H1141	316	PS003V-505-2UPN8X-H1141	296	PS016V-501-LI2UPN8X-H1141	302
PS001R-504-2UPN8X-H1141	296	PS003V-505-LI2UPN8X-H1141	304	PS016V-501-LUUPN8X-H1141	314
PS001R-504-LI2UPN8X-H1141	300	PS003V-505-LUUPN8X-H1141	316	PS016V-502-2UPN8X-H1141	298
PS001R-504-LUUPN8X-H1141	312	PS003V-504-2UPN8X-H1141	296	PS016V-502-LI2UPN8X-H1141	306
PS001R-505-2UPN8X-H1141	298	PS003V-504-LI2UPN8X-H1141	300	PS016V-502-LUUPN8X-H1141	318
PS001R-505-LI2UPN8X-H1141	310	PS003V-504-LUUPN8X-H1141	312	PS016V-503-2UPN8X-H1141	296
PS001R-505-LUUPN8X-H1141	322	PS003V-505-2UPN8X-H1141	298	PS016V-503-LI2UPN8X-H1141	304
PS001R-508-2UPN8X-H1141	298	PS003V-505-LI2UPN8X-H1141	310	PS016V-503-LUUPN8X-H1141	316
PS001R-508-LI2UPN8X-H1141	308	PS003V-505-LUUPN8X-H1141	322	PS016V-504-2UPN8X-H1141	296
PS001R-508-LUUPN8X-H1141	320	PS003V-508-2UPN8X-H1141	298	PS016V-504-LI2UPN8X-H1141	300
PS001R-606-2UPN8X-H1141	324	PS003V-508-LI2UPN8X-H1141	308	PS016V-504-LUUPN8X-H1141	312
PS001R-606-LI2UPN8X-H1141	328	PS003V-508-LUUPN8X-H1141	320	PS016V-505-2UPN8X-H1141	298
PS001R-606-LUUPN8X-H1141	332	PS003V-606-2UPN8X-H1141	324	PS016V-505-LI2UPN8X-H1141	310
PS001V-401-2UPN8X-H1141	276	PS003V-606-LI2UPN8X-H1141	328	PS016V-505-LUUPN8X-H1141	322
PS001V-401-LI2UPN8X-H1141	282	PS003V-606-LUUPN8X-H1141	332	PS016V-508-2UPN8X-H1141	298
PS001V-401-LUUPN8X-H1141	290	PS010V-401-2UPN8X-H1141	276	PS016V-508-LI2UPN8X-H1141	308
PS001V-402-2UPN8X-H1141	278	PS010V-401-LI2UPN8X-H1141	282	PS016V-508-LUUPN8X-H1141	320
PS001V-402-LI2UPN8X-H1141	286	PS010V-401-LUUPN8X-H1141	290	PS016V-606-2UPN8X-H1141	324
PS001V-402-LUUPN8X-H1141	294	PS010V-402-2UPN8X-H1141	278	PS016V-606-LI2UPN8X-H1141	328
PS001V-403-2UPN8X-H1141	276	PS010V-402-LI2UPN8X-H1141	286	PS016V-606-LUUPN8X-H1141	332
PS001V-403-LI2UPN8X-H1141	284	PS010V-402-LUUPN8X-H1141	294	PS016V-609-2UPN8X-H1141	324
PS001V-403-LUUPN8X-H1141	292	PS010V-403-2UPN8X-H1141	276	PS016V-609-LI2UPN8X-H1141	326
PS001V-404-2UPN8X-H1141	276	PS010V-403-LI2UPN8X-H1141	284	PS016V-609-LUUPN8X-H1141	330
PS001V-404-LI2UPN8X-H1141	280	PS010V-403-LUUPN8X-H1141	292	PS01VR-401-2UPN8X-H1141	276
PS001V-404-LUUPN8X-H1141	288	PS010V-404-2UPN8X-H1141	276	PS01VR-401-LI2UPN8X-H1141	282
PS001V-501-2UPN8X-H1141	296	PS010V-404-LI2UPN8X-H1141	280	PS01VR-401-LUUPN8X-H1141	290
PS001V-501-LI2UPN8X-H1141	302	PS010V-404-LUUPN8X-H1141	288	PS01VR-402-2UPN8X-H1141	278
PS001V-501-LUUPN8X-H1141	314	PS010V-501-2UPN8X-H1141	296	PS01VR-402-LI2UPN8X-H1141	286
PS001V-502-2UPN8X-H1141	298	PS010V-501-LI2UPN8X-H1141	302	PS01VR-402-LUUPN8X-H1141	294
PS001V-502-LI2UPN8X-H1141	306	PS010V-501-LUUPN8X-H1141	314	PS01VR-403-2UPN8X-H1141	276
PS001V-502-LUUPN8X-H1141	318	PS010V-502-2UPN8X-H1141	298	PS01VR-403-LI2UPN8X-H1141	284
PS001V-503-2UPN8X-H1141	296	PS010V-502-LI2UPN8X-H1141	306	PS01VR-403-LUUPN8X-H1141	292
PS001V-503-LI2UPN8X-H1141	304	PS010V-502-LUUPN8X-H1141	318	PS01VR-404-2UPN8X-H1141	276
PS001V-503-LUUPN8X-H1141	316	PS010V-503-2UPN8X-H1141	296	PS01VR-404-LI2UPN8X-H1141	280
PS001V-504-2UPN8X-H1141	296	PS010V-503-LI2UPN8X-H1141	304	PS01VR-404-LUUPN8X-H1141	288
PS001V-504-LI2UPN8X-H1141	300	PS010V-503-LUUPN8X-H1141	316	PS01VR-501-2UPN8X-H1141	296
PS001V-504-LUUPN8X-H1141	312	PS010V-504-2UPN8X-H1141	296	PS01VR-501-LI2UPN8X-H1141	302
PS001V-505-2UPN8X-H1141	298	PS010V-504-LI2UPN8X-H1141	300	PS01VR-501-LUUPN8X-H1141	314
PS001V-505-LI2UPN8X-H1141	310	PS010V-504-LUUPN8X-H1141	312	PS01VR-502-2UPN8X-H1141	298
PS001V-505-LUUPN8X-H1141	322	PS010V-505-2UPN8X-H1141	298	PS01VR-502-LI2UPN8X-H1141	306

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
PS01VR-502-LUUPN8X-H1141	318	PS040V-501-2UPN8X-H1141	296	PS250R-402-2UPN8X-H1141	278
PS01VR-503-2UPN8X-H1141	296	PS040V-501-LI2UPN8X-H1141	302	PS250R-402-LI2UPN8X-H1141	286
PS01VR-503-LI2UPN8X-H1141	304	PS040V-501-LUUPN8X-H1141	314	PS250R-402-LUUPN8X-H1141	294
PS01VR-503-LUUPN8X-H1141	316	PS040V-502-2UPN8X-H1141	298	PS250R-403-2UPN8X-H1141	276
PS01VR-504-2UPN8X-H1141	296	PS040V-502-LI2UPN8X-H1141	306	PS250R-403-LI2UPN8X-H1141	284
PS01VR-504-LI2UPN8X-H1141	300	PS040V-502-LUUPN8X-H1141	318	PS250R-403-LUUPN8X-H1141	292
PS01VR-504-LUUPN8X-H1141	312	PS040V-503-2UPN8X-H1141	296	PS250R-404-2UPN8X-H1141	276
PS01VR-505-2UPN8X-H1141	298	PS040V-503-LI2UPN8X-H1141	304	PS250R-404-LI2UPN8X-H1141	280
PS01VR-505-LI2UPN8X-H1141	310	PS040V-503-LUUPN8X-H1141	316	PS250R-404-LUUPN8X-H1141	288
PS01VR-505-LUUPN8X-H1141	322	PS040V-504-2UPN8X-H1141	296	PS250R-501-2UPN8X-H1141	296
PS01VR-508-2UPN8X-H1141	298	PS040V-504-LI2UPN8X-H1141	300	PS250R-501-LI2UPN8X-H1141	302
PS01VR-508-LI2UPN8X-H1141	308	PS040V-504-LUUPN8X-H1141	312	PS250R-501-LUUPN8X-H1141	314
PS01VR-508-LUUPN8X-H1141	320	PS040V-505-2UPN8X-H1141	298	PS250R-502-2UPN8X-H1141	298
PS01VR-606-2UPN8X-H1141	324	PS040V-505-LI2UPN8X-H1141	310	PS250R-502-LI2UPN8X-H1141	306
PS01VR-606-LI2UPN8X-H1141	328	PS040V-505-LUUPN8X-H1141	322	PS250R-502-LUUPN8X-H1141	318
PS01VR-606-LUUPN8X-H1141	332	PS040V-508-2UPN8X-H1141	298	PS250R-503-2UPN8X-H1141	296
PS025V-401-2UPN8X-H1141	276	PS040V-508-LI2UPN8X-H1141	308	PS250R-503-LI2UPN8X-H1141	304
PS025V-401-LI2UPN8X-H1141	282	PS040V-508-LUUPN8X-H1141	320	PS250R-503-LUUPN8X-H1141	316
PS025V-401-LUUPN8X-H1141	290	PS040V-606-2UPN8X-H1141	324	PS250R-504-2UPN8X-H1141	296
PS025V-402-2UPN8X-H1141	278	PS040V-606-LI2UPN8X-H1141	328	PS250R-504-LI2UPN8X-H1141	300
PS025V-402-LI2UPN8X-H1141	286	PS040V-606-LUUPN8X-H1141	332	PS250R-504-LUUPN8X-H1141	312
PS025V-402-LUUPN8X-H1141	294	PS040V-609-2UPN8X-H1141	324	PS250R-505-2UPN8X-H1141	298
PS025V-403-2UPN8X-H1141	276	PS040V-609-LI2UPN8X-H1141	326	PS250R-505-LI2UPN8X-H1141	310
PS025V-403-LI2UPN8X-H1141	284	PS040V-609-LUUPN8X-H1141	330	PS250R-505-LUUPN8X-H1141	322
PS025V-403-LUUPN8X-H1141	292	PS100R-401-2UPN8X-H1141	276	PS250R-508-2UPN8X-H1141	298
PS025V-404-2UPN8X-H1141	276	PS100R-401-LI2UPN8X-H1141	282	PS250R-508-LI2UPN8X-H1141	308
PS025V-404-LI2UPN8X-H1141	280	PS100R-401-LUUPN8X-H1141	290	PS250R-508-LUUPN8X-H1141	320
PS025V-404-LUUPN8X-H1141	288	PS100R-402-2UPN8X-H1141	278	PS250R-606-2UPN8X-H1141	324
PS025V-501-2UPN8X-H1141	296	PS100R-402-LI2UPN8X-H1141	286	PS250R-606-LI2UPN8X-H1141	328
PS025V-501-LI2UPN8X-H1141	302	PS100R-402-LUUPN8X-H1141	294	PS250R-606-LUUPN8X-H1141	332
PS025V-501-LUUPN8X-H1141	314	PS100R-403-2UPN8X-H1141	276	PS250R-609-2UPN8X-H1141	324
PS025V-502-2UPN8X-H1141	298	PS100R-403-LI2UPN8X-H1141	284	PS250R-609-LI2UPN8X-H1141	326
PS025V-502-LI2UPN8X-H1141	306	PS100R-403-LUUPN8X-H1141	292	PS250R-609-LUUPN8X-H1141	330
PS025V-502-LUUPN8X-H1141	318	PS100R-404-2UPN8X-H1141	276	PS400R-401-2UPN8X-H1141	276
PS025V-503-2UPN8X-H1141	296	PS100R-404-LI2UPN8X-H1141	280	PS400R-401-LI2UPN8X-H1141	282
PS025V-503-LI2UPN8X-H1141	304	PS100R-404-LUUPN8X-H1141	288	PS400R-401-LUUPN8X-H1141	290
PS025V-503-LUUPN8X-H1141	316	PS100R-501-2UPN8X-H1141	296	PS400R-402-2UPN8X-H1141	278
PS025V-504-2UPN8X-H1141	296	PS100R-501-LI2UPN8X-H1141	302	PS400R-402-LI2UPN8X-H1141	286
PS025V-504-LI2UPN8X-H1141	300	PS100R-501-LUUPN8X-H1141	314	PS400R-402-LUUPN8X-H1141	294
PS025V-504-LUUPN8X-H1141	312	PS100R-502-2UPN8X-H1141	298	PS400R-403-2UPN8X-H1141	276
PS025V-505-2UPN8X-H1141	298	PS100R-502-LI2UPN8X-H1141	306	PS400R-403-LI2UPN8X-H1141	284
PS025V-505-LI2UPN8X-H1141	310	PS100R-502-LUUPN8X-H1141	318	PS400R-403-LUUPN8X-H1141	292
PS025V-505-LUUPN8X-H1141	322	PS100R-503-2UPN8X-H1141	296	PS400R-404-2UPN8X-H1141	276
PS025V-508-2UPN8X-H1141	298	PS100R-503-LI2UPN8X-H1141	304	PS400R-404-LI2UPN8X-H1141	280
PS025V-508-LI2UPN8X-H1141	308	PS100R-503-LUUPN8X-H1141	316	PS400R-404-LUUPN8X-H1141	288
PS025V-508-LUUPN8X-H1141	320	PS100R-504-2UPN8X-H1141	296	PS400R-501-2UPN8X-H1141	296
PS025V-606-2UPN8X-H1141	324	PS100R-504-LI2UPN8X-H1141	300	PS400R-501-LI2UPN8X-H1141	302
PS025V-606-LI2UPN8X-H1141	328	PS100R-504-LUUPN8X-H1141	312	PS400R-501-LUUPN8X-H1141	314
PS025V-606-LUUPN8X-H1141	332	PS100R-505-2UPN8X-H1141	298	PS400R-502-2UPN8X-H1141	298
PS025V-609-2UPN8X-H1141	324	PS100R-505-LI2UPN8X-H1141	310	PS400R-502-LI2UPN8X-H1141	306
PS025V-609-LI2UPN8X-H1141	326	PS100R-505-LUUPN8X-H1141	322	PS400R-502-LUUPN8X-H1141	318
PS025V-609-LUUPN8X-H1141	330	PS100R-508-2UPN8X-H1141	298	PS400R-503-2UPN8X-H1141	296
PS040V-401-2UPN8X-H1141	276	PS100R-508-LI2UPN8X-H1141	308	PS400R-503-LI2UPN8X-H1141	304
PS040V-401-LI2UPN8X-H1141	282	PS100R-508-LUUPN8X-H1141	320	PS400R-503-LUUPN8X-H1141	316
PS040V-401-LUUPN8X-H1141	290	PS100R-606-2UPN8X-H1141	324	PS400R-504-2UPN8X-H1141	296
PS040V-402-2UPN8X-H1141	278	PS100R-606-LI2UPN8X-H1141	328	PS400R-504-LI2UPN8X-H1141	300
PS040V-402-LI2UPN8X-H1141	286	PS100R-606-LUUPN8X-H1141	332	PS400R-504-LUUPN8X-H1141	312
PS040V-402-LUUPN8X-H1141	294	PS100R-609-2UPN8X-H1141	324	PS400R-505-2UPN8X-H1141	298
PS040V-403-2UPN8X-H1141	276	PS100R-609-LI2UPN8X-H1141	326	PS400R-505-LI2UPN8X-H1141	310
PS040V-403-LI2UPN8X-H1141	284	PS100R-609-LUUPN8X-H1141	326	PS400R-505-LUUPN8X-H1141	322
PS040V-403-LUUPN8X-H1141	292	PS100R-609-LUUPN8X-H1141	330	PS400R-508-2UPN8X-H1141	298
PS040V-404-2UPN8X-H1141	276	PS250R-401-2UPN8X-H1141	276	PS400R-508-LI2UPN8X-H1141	308
PS040V-404-LI2UPN8X-H1141	280	PS250R-401-LI2UPN8X-H1141	282	PS400R-508-LUUPN8X-H1141	320
PS040V-404-LUUPN8X-H1141	288	PS250R-401-LUUPN8X-H1141	290	PS400R-606-2UPN8X-H1141	324

Typenverzeichnis
Index of types
Liste de types

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
PS400R-606-LI2UPN8X-H1141	328	PT01VR-11-LU2-H1131	340	QM-18	475
PS400R-606-LUUPN8X-H1141	332	PT01VR-14-LI3-H1131	334	QM-18	462
PS400R-609-2UPN8X-H1141	324	PT01VR-14-LU2-H1131	338	QM-30	477
PS400R-609-LI2UPN8X-H1141	326	PT025R-11-LI3-H1131	336	QM-30	463
PS400R-609-LUUPN8X-H1141	330	PT025R-11-LU2-H1131	340	QMT-12	472
PS600R-401-2UPN8X-H1141	276	PT025R-14-LI3-H1131	334	QMT-18	475
PS600R-401-LI2UPN8X-H1141	282	PT025R-14-LU2-H1131	338	QMT-30	477
PS600R-401-LUUPN8X-H1141	290	PT040R-11-LI3-H1131	336	QS186E	356
PS600R-402-2UPN8X-H1141	278	PT040R-11-LU2-H1131	340	QS186EB	356
PS600R-402-LI2UPN8X-H1141	286	PT040R-14-LI3-H1131	334	QS186EBQ8	354
PS600R-402-LUUPN8X-H1141	294	PT040R-14-LU2-H1131	338	QS186EQ8	354
PS600R-403-2UPN8X-H1141	276	PT060R-11-LI3-H1131	336	QS186LE	356
PS600R-403-LI2UPN8X-H1141	284	PT060R-11-LU2-H1131	340	QS186LEQ8	354
PS600R-403-LUUPN8X-H1141	292	PT060R-14-LI3-H1131	334	QS18UPAEQ8	386
PS600R-404-2UPN8X-H1141	276	PT060R-14-LU2-H1131	338	QS18UPAQ8	384
PS600R-404-LI2UPN8X-H1141	280	PT100R-11-LI3-H1131	336	QS18VP6AF100	358
PS600R-404-LUUPN8X-H1141	288	PT100R-11-LU2-H1131	340	QS18VP6AF100Q5	358
PS600R-501-2UPN8X-H1141	296	PT100R-14-LI3-H1131	334	QS18VP6CV15	356
PS600R-501-LI2UPN8X-H1141	302	PT100R-14-LU2-H1131	338	QS18VP6CV15Q8	354
PS600R-501-LUUPN8X-H1141	314	PT160R-11-LI3-H1131	336	QS18VP6CV45	356
PS600R-502-2UPN8X-H1141	298	PT160R-11-LU2-H1131	340	QS18VP6CV45Q8	354
PS600R-502-LI2UPN8X-H1141	306	PT160R-14-LI3-H1131	334	QS18VP6D	356
PS600R-502-LUUPN8X-H1141	318	PT160R-14-LU2-H1131	338	QS18VP6DB	356
PS600R-503-2UPN8X-H1141	296	PT250R-11-LI3-H1131	336	QS18VP6DBQ8	356
PS600R-503-LI2UPN8X-H1141	304	PT250R-11-LU2-H1131	340	QS18VP6DQ8	354
PS600R-503-LUUPN8X-H1141	316	PT250R-14-LI3-H1131	334	QS18VP6F	358
PS600R-504-2UPN8X-H1141	296	PT250R-14-LU2-H1131	338	QS18VP6FF100	356
PS600R-504-LI2UPN8X-H1141	300	PT400R-11-LI3-H1131	336	QS18VP6FF100Q8	354
PS600R-504-LUUPN8X-H1141	312	PT400R-11-LU2-H1131	340	QS18VP6FF50	356
PS600R-505-2UPN8X-H1141	298	PT400R-14-LI3-H1131	334	QS18VP6FF50Q8	354
PS600R-505-LI2UPN8X-H1141	310	PT400R-14-LU2-H1131	338	QS18VP6FP	358
PS600R-505-LUUPN8X-H1141	322	PT600R-11-LI3-H1131	336	QS18VP6FPQ8	356
PS600R-508-2UPN8X-H1141	298	PT600R-11-LU2-H1131	340	QS18VP6FQ8	356
PS600R-508-LI2UPN8X-H1141	308	PT600R-14-LI3-H1131	334	QS18VP6LAF	358
PS600R-508-LUUPN8X-H1141	320	PT600R-14-LU2-H1131	338	QS18VP6LAFQ5	358
PSU-3214	750	PTS-COVER	482	QS18VP6LD	356
PT001R-11-LI3-H1131	336	Q126E	354	QS18VP6LDQ8	354
PT001R-11-LU2-H1131	340	Q126EQ	354	QS18VP6LLP	356
PT001R-14-LI3-H1131	334	Q12AB6FF15	354	QS18VP6LLPQ8	354
PT001R-14-LU2-H1131	338	Q12AB6FF15Q	354	QS18VP6LP	356
PT002R-11-LI3-H1131	336	Q12AB6FF30	354	QS18VP6LPQ8	354
PT002R-11-LU2-H1131	340	Q12AB6FF30Q	354	QS18VP6LV	356
PT002R-14-LI3-H1131	334	Q12AB6FF50	354	QS18VP6LVQ8	354
PT002R-14-LU2-H1131	338	Q12AB6FF50Q	354	QS18VP6R	356
PT003R-11-LI3-H1131	336	Q12AB6LP	354	QS18VP6RB	356
PT003R-11-LU2-H1131	340	Q12AB6LPQ	354	QS18VP6RBQ8	356
PT003R-14-LI3-H1131	334	Q12AB6LV	354	QS18VP6RQ8	354
PT003R-14-LU2-H1131	338	Q12AB6LVQ	354	QS18VP6W	356
PT004R-11-LI3-H1131	336	Q12AB6R	354	QS18VP6WQ8	356
PT004R-11-LU2-H1131	340	Q12AB6RQ	354	QS30AF	360
PT004R-14-LI3-H1131	334	Q12RB6FF15	354	QS30AFQ	360
PT004R-14-LU2-H1131	338	Q12RB6FF15Q	354	QS30ARX	360
PT006R-11-LI3-H1131	336	Q12RB6FF30	354	QS30ARXQ	358
PT006R-11-LU2-H1131	340	Q12RB6FF30Q	354	QS30D	360
PT006R-14-LI3-H1131	334	Q12RB6FF50	354	QS30DQ	360
PT006R-14-LU2-H1131	338	Q12RB6FF50Q	354	QS30E	360
PT010R-11-LI3-H1131	336	Q12RB6LP	354	QS30EQ	360
PT010R-11-LU2-H1131	340	Q12RB6LPQ	354	QS30EX	360
PT010R-14-LI3-H1131	334	Q12RB6LV	354	QS30EXQ	358
PT010R-14-LU2-H1131	338	Q12RB6LVQ	354	QS30FF200	360
PT016R-11-LI3-H1131	336	Q12RB6R	354	QS30FF200Q	360
PT016R-11-LU2-H1131	340	Q12RB6RQ	354	QS30FF400	360
PT016R-14-LI3-H1131	334	QM-08	471	QS30FF400Q	360
PT016R-14-LU2-H1131	338	QM-12	472	QS30FF600	360

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
QS30FF600Q	360	RKM52-0,5-RSM52	728	RSFV48-0,3M/14,5/C1117	792
QS30LD	360	RKM52-10M	728	RSFV48-0,3M/M20/C1117	792
QS30LDL	360	RKM52-10-RSM52	728	RSFV49	768
QS30LDLQ	360	RKM52-15M	728	RSFV49-0,3M/14,5/C1117	766
QS30LDQ	360	RKM52-15-RSM52	728	RSFV49-0,3M/M20/C1117	766
QS30LLP	360	RKM52-1-RSM52	728	RSM-2RKM40	745
QS30LLPQ	360	RKM52-2-RSM52	728	RSM-2RKM50	744
QS30LP	360	RKM52-30-RSM52	728	RSM-2RKM57	737
QS30LPQ	360	RKM52-4-RSM52	728	RSM43-10M	730
QS30LV	360	RKM52-6M	728	RSM43-15M	730
QS30LVQ	360	RKM52-6-RSM52	728	RSM43-6M	730
QS30R	360	RKM5711-10M	720	RSM52-10M	728
QS30RQ	360	RKM5711-15M	720	RSM52-15M	728
QS30RRX	360	RKM5711-6M	720	RSM52-6M	728
QS30RRXQ	358	RKM5723-10M	722	RSM5711-10M	720
QT50UDBQ6	384	RKM5723-15M	722	RSM5711-15M	720
QT50ULBQ6	384	RKM5723-6M	722	RSM5711-6M	720
REP-DN	737	RKM57-TR2	739	RSM5723-10M	722
REP-DP 0002	734	RKM-CBC5-5711-0,5M	724	RSM5723-15M	722
RJ45-FKSDD-441-0,5M/S2174	726	RKM-CBC5-5711-1M	724	RSM5723-6M	722
RK4.5T-0,3-RS4.5T/S2500	467	RKM-CBC5-5711-2M	724	RSM57-TR2	738
RK4.5T-10/S2500	467	RKM-CBC5-5723-1M	724	RSM-CBC5-5711-0,5M	724
RK4.5T-10-RS4.5T/S2500	467	RKM-CBC5-5723-2M	724	RSM-CBC5-5711-1M	724
RK4.5T-2/S2500	467	RKSD-RJ45-441-0,5M/S2174	726	RSM-CBC5-5711-2M	724
RK4.5T-25/S2500	467	RKSW-2RSSW45-0001	734	RSM-CBC5-5723-0,5M	724
RK4.5T-25-RS4.5T/S2500	467	RKSW451-10M	714	RSM-CBC5-5723-0,5M	724
RK4.5T-2-RS4.5T/S2500	467	RKSW451-15M	714	RSM-CBC5-5723-1M	724
RK4.5T-5/S2500	467	RKSW451-6M	714	RSM-CBC5-5723-2M	724
RK4.5T-50/S2500	467	RKSW451-6M	734	RSM-FKM-RKM57	737
RK4.5T-50-RS4.5T/S2500	467	RPC49-10125/Ex	750	RSM-RKM5711-0,3M	720
RK4.5T-5-RS4.5T/S2500	467	RPC49-10265/Ex	750	RSM-RKM5711-0,5M	720
RKC4.4Q-2-RSC4.4Q/P00	418	RPC49-205	750	RSM-RKM5711-10M	720
RKC4.4Q-5/S366	418	RSC4.4Q-5/S366	418	RSM-RKM5711-15M	720
RKC4.4Q-5/S90	418	RSC4.4Q-5/S90	418	RSM-RKM5711-1M	720
RKC4.5Q-5/S366/S1538	418	RSC4.5Q-5/S366/S1538	418	RSM-RKM5711-2M	720
RKC4.5Q-5/S90/S1538	418	RSC4.5Q-5/S90/S1538	418	RSM-RKM5711-30M	720
RKC4Q-5/S366	418	RSC4Q-5/S366	418	RSM-RKM5711-4M	720
RKC4Q-5/S90	418	RSC4Q-5/S90	418	RSM-RKM5711-6M	720
RKC572-10M	718	RSC572-10M	718	RSM-RKM5723-0,3M	722
RKC572-15M	718	RSC572-15M	718	RSM-RKM5723-0,5M	722
RKC572-6M	718	RSC572-6M	718	RSM-RKM5723-10M	722
RKC-CBC5-572-0,5M	724	RSC-CBC5-572-0,5M	724	RSM-RKM5723-15M	722
RKC-CBC5-572-1M	724	RSC-CBC5-572-1M	724	RSM-RKM5723-1M	722
RKC-CBC5-572-2M	724	RSC-CBC5-572-2M	724	RSM-RKM5723-2M	722
RKE57-TR2	738	RSC-RKC572-0,3M	718	RSM-RKM5723-30M	722
RKFV48	794	RSC-RKC572-0,5M	718	RSM-RKM5723-4M	722
RKFV48-0,3M/14,5/C1117	793	RSC-RKC572-10M	718	RSM-RKM5723-6M	722
RKFV48-0,3M/M20/C1117	793	RSC-RKC572-15M	718	RSMV-48TR-Ex	798
RKFV49	768	RSC-RKC572-1M	718	RSS4.5-PDP-TR	734
RKFV49-0,3M/14,5	767	RSC-RKC572-2M	718	RSSD-RJ45-441-0,5M/S2174	726
RKFV49-0,3M/M20	767	RSC-RKC572-30M	718	RSSD-RJ45-441-10M/S2174	726
RKM40-RKM40-L-RSM40	745	RSC-RKC572-4M	718	RSSD-RJ45-441-15M/S2174	726
RKM43-0,3-RSM43	730	RSC-RKC572-6M	718	RSSD-RJ45-441-1M/S2174	726
RKM43-0,5-RSM43	730	RSCV-2RKCV49	752	RSSD-RJ45-441-25M/S2174	726
RKM43-10M	730	RSCV-2RKCV49	778	RSSD-RJ45-441-2M/S2174	726
RKM43-10-RSM43	730	RSCV-RKV493B-0,3M	776	RSSD-RJ45-441-30M/S2174	726
RKM43-15M	730	RSE-48TR-Ex	798	RSSD-RJ45-441-40M/S2174	726
RKM43-15-RSM43	730	RSE57-TR2	738	RSSD-RJ45-441-6M/S2174	726
RKM43-1-RSM43	730	RSEV-48TR-Ex	798	RSSD-RSSD-441-0,5M/S2174	726
RKM43-2-RSM43	730	RSEV49-TR	772	RSSD-RSSD-441-10M/S2174	726
RKM43-4-RSM43	730	RSF-RKF-40/22	745	RSSD-RSSD-441-20M/S2174	726
RKM43-6M	730	RSF-RKF-57/22	741	RSSD-RSSD-441-2M/S2174	726
RKM43-6-RSM43	730	RSF-RKF-57/22	744	RSSD-RSSD-441-30M/S2174	726
RKM52-0,3-RSM52	728	RSFV48	794	RSSD-RSSD-441-6M/S2174	726

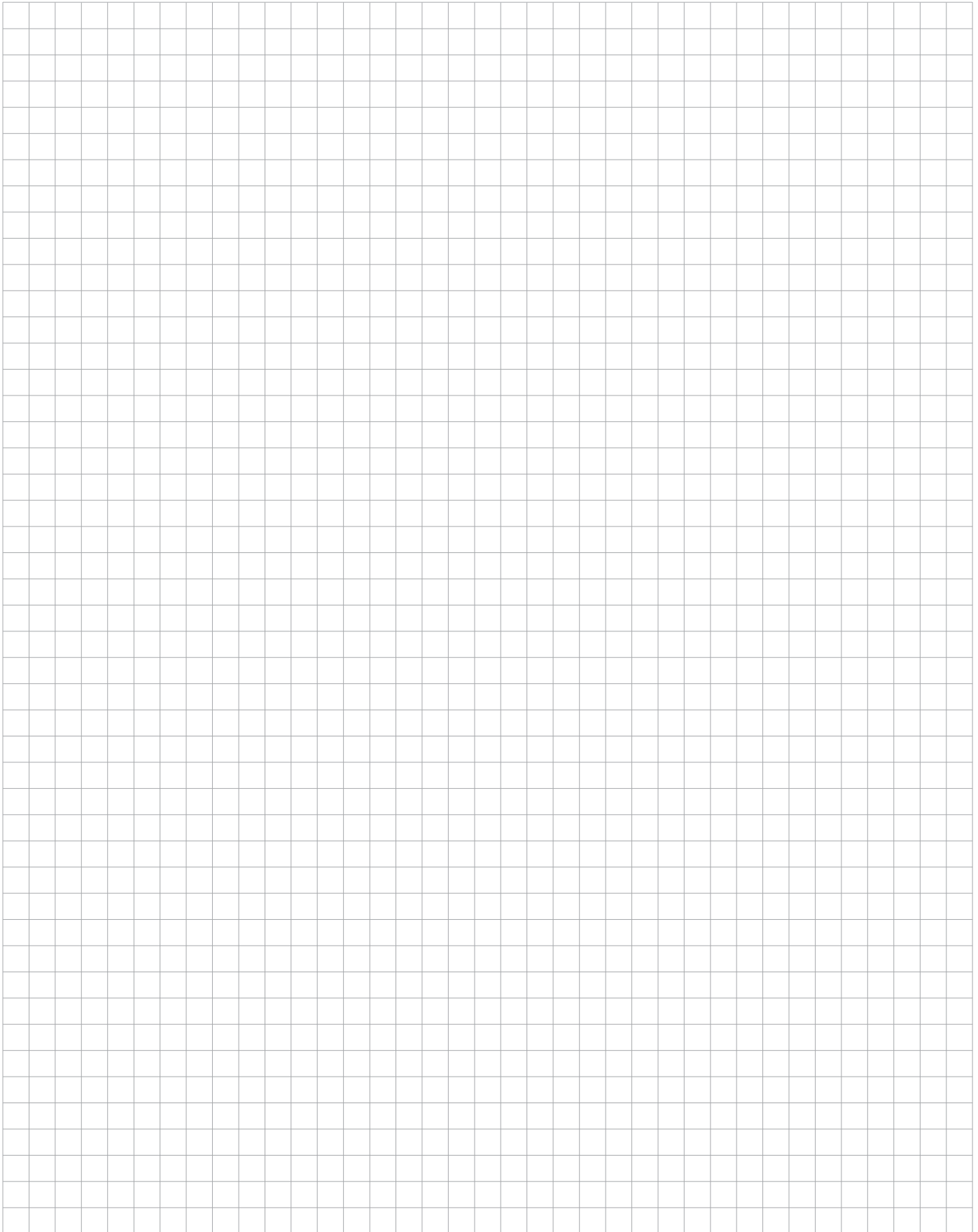
Typenverzeichnis
Index of types
Liste de types

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
RSSW451-10M	714	S30SP6FF200	366	SDNB-0800D-0002	612
RSSW451-15M	714	S30SP6FF200Q	366	SDNB-0800D-0004	612
RSSW451-6M	714	S30SP6FF400	366	SDNB-0800D-0007	612
RSSW-RKSW451-0,3M	714	S30SP6FF400Q	366	SDNB-0800D-0008	612
RSSW-RKSW451-0,5M	714	S30SP6LPQ	366	SDNB-0808D-0001	612
RSSW-RKSW451-10M	714	S30SP6R	366	SDNB-10S-0001	638
RSSW-RKSW451-15M	714	S30SP6RQ	366	SDNB-10S-0002	638
RSSW-RKSW451-1M	714	S30SP6RQ	366	SDNB-10S-0003	638
RSSW-RKSW451-2M	714	SC-M12/3GD	483	SDNB-10S-0004	638
RSSW-RKSW451-30M	714	SC-M8/3GD	483	SDNB-10S-0005	638
RSSW-RKSW451-4M	714	SCOB-0002D-0002	640	SDNB-40A-0004	630
RSSW-RKSW451-6M	714	SCOB-0008D-0001	616	SDNB-40A-0005	630
RSV-2RKV48	778	SCOB-0008D-0002	616	SDNB-40A-0007	630
RSV-2RKV49	752	SCOB-0008D-0003	616	SDNB-40A-0009	630
RSV49-TR	772	SCOB-0008D-0004	616	SDNL-0404D-0003	610
RSV-49TR-Ex	772	SCOB-0008D-0005	616	SDNL-0404D-0004	610
RU100-CP40-AP6X2	384	SCOB-0008D-0006	616	SDNL-0404D-1003	610
RU100-CP40-LIUX	384	SCOB-0202D-0003	640	SDNL-0404D-1004	610
RU100-M18-AP8X-H1141	388	SCOB-0404D-0001	616	SDPB-0002D-0002	634
RU100-M18-LIX-H1141	388	SCOB-0404D-0002	616	SDPB-0002D-1002	636
RU100-M30-AP8X-H1141	388	SCOB-0404D-0003	616	SDPB-0008D-0001	604
RU100-Q30-AP8X-H1141	384	SCOB-0404D-0004	616	SDPB-0008D-0002	604
RU100-Q30-LUX-H1141	384	SCOB-0404D-0005	616	SDPB-0008D-0003	604
RU30-M18-AP8X-H1141	386	SCOB-0404D-0006	616	SDPB-0008D-0004	604
RU30-M18-LIX-H1141	388	SCOB-0404D-0007	616	SDPB-0008D-0005	604
RU30-M30-AP8X-H1141	388	SCOB-0404D-0008	616	SDPB-0008D-0006	604
RU30-Q30-AP8X-H1141	384	SCOB-04A-0007	630	SDPB-0008D-1001	606
RU30-Q30-LUX-H1141	384	SCOB-04A-0009	630	SDPB-0008D-1002	606
RU600-M3065-AP8X-H1141	388	SCOB-0800D-0002	616	SDPB-0008D-1003	606
RUC130-M30-AP8X-H1141	388	SCOB-0800D-0004	616	SDPB-0008D-1004	606
RUC130-M30-LIAP8X-H1151	388	SCOB-0800D-0007	616	SDPB-0008D-1005	606
RUC300-M3047-AP8X-H1141	388	SCOB-0800D-0008	616	SDPB-0008D-1006	606
RUC300-M3047-LIAP8X-H1151	388	SCOB-0808D-0001	616	SDPB-0202D-0003	634
RUC30-M30-AP8X-H1141	388	SCOB-10S-0001	640	SDPB-0202D-1003	636
RUC30-M30-LIAP8X-H1151	388	SCOB-10S-0002	640	SDPB-0404D-0001	604
RUC600-M3065-AP8X-H1141	388	SCOB-10S-0003	640	SDPB-0404D-0002	604
RUC600-M3065-LIAP8X-H1151	388	SCOB-10S-0004	640	SDPB-0404D-0003	604
RUN20-M18K-AP8X-H1141	386	SCOB-10S-0005	640	SDPB-0404D-0004	604
RUN20-M18KS-AP8X-H1141	386	SCOB-40A-0004	630	SDPB-0404D-0005	604
RUN70-M18K-AP8X-H1141	386	SCOB-40A-0005	630	SDPB-0404D-0006	604
RUN70-M18KS-AP8X-H1141	386	SCOB-40A-0007	630	SDPB-0404D-0007	604
RU-PDi	484	SCOB-40A-0009	630	SDPB-0404D-0008	604
S186E	366	SCOL-0404D-0003	614	SDPB-0404D-1001	606
S186EQ	364	SCOL-0404D-0004	614	SDPB-0404D-1002	606
S18SP6D	366	SCOL-0404D-1003	614	SDPB-0404D-1003	606
S18SP6DL	366	SCOL-0404D-1004	614	SDPB-0404D-1004	606
S18SP6DLQ	364	SDNB-0002D-0002	638	SDPB-0404D-1005	606
S18SP6DQ	364	SDNB-0008D-0001	612	SDPB-0404D-1006	606
S18SP6FF100	366	SDNB-0008D-0002	612	SDPB-0404D-1007	606
S18SP6FF100Q	364	SDNB-0008D-0003	612	SDPB-0404D-1008	606
S18SP6FF50	366	SDNB-0008D-0004	612	SDPB-04A-0007	630
S18SP6FF50Q	364	SDNB-0008D-0005	612	SDPB-04A-0009	630
S18SP6L	366	SDNB-0008D-0006	612	SDPB-04A-1007	630
S18SP6LP	366	SDNB-0202D-0003	638	SDPB-04A-1009	630
S18SP6LPQ	364	SDNB-0404D-0001	612	SDPB-0800D-0002	604
S18SP6LQ	364	SDNB-0404D-0002	612	SDPB-0800D-0004	604
S18SP6R	366	SDNB-0404D-0003	612	SDPB-0800D-0007	604
S18SP6RQ	364	SDNB-0404D-0004	612	SDPB-0800D-0008	604
S18UBAQ	386	SDNB-0404D-0005	612	SDPB-0800D-1002	606
S18UBARQ	386	SDNB-0404D-0006	612	SDPB-0800D-1004	606
S18UIAQ	386	SDNB-0404D-0007	612	SDPB-0800D-1007	606
S18UIARQ	386	SDNB-0404D-0008	612	SDPB-0800D-1008	606
S306E	366	SDNB-04A-0007	630	SDPB-0808D-0001	604
S306EQ	366	SDNB-04A-0009	630	SDPB-0808D-1001	606

Typenverzeichnis
Index of types
Liste de types

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
T306EQ	368	TI-BL67-DN-4	456	TN-M18-H1147/S1126	452
T30SP6FF200	368	TI-BL67-DN-6	456	TN-Q80-H1147	454
T30SP6FF200Q	368	TI-BL67-DN-8	456	TN-Q80-H1147/S1126	454
T30SP6FF400	368	TI-BL67-DN-S-2	457	TN-S32XL-H1147	454
T30SP6FF400Q	368	TI-BL67-DN-S-4	457	TP-103A-G1/8-H1141-L013	350
T30SP6LP	368	TI-BL67-DN-S-6	457	TP-103A-G1/8-H1141-L024	350
T30SP6LPQ	368	TI-BL67-DN-S-8	457	TP-104A-DN25-H1141/L035	350
T30SP6R	368	TI-BL67-DPV1-2	456	TP-104A-DN25-H1141/L100	350
T30SP6RQ	368	TI-BL67-DPV1-4	456	TP-104A-TRI3/4-H1141/L035	350
T30UDPAQ	384	TI-BL67-DPV1-6	456	TP-104A-TRI3/4-H1141/L100	350
T30UDPBQ	384	TI-BL67-DPV1-8	456	TP-203A-CF-H1141/L100	350
T30UIPAQ	384	TI-BL67-DPV1-S-2	457	TP-203A-CF-H1141/L150	350
T30UIPBQ	384	TI-BL67-DPV1-S-4	457	TP-203A-CF-H1141/L200	350
TB3-CP80	484	TI-BL67-DPV1-S-6	457	TP-203A-CF-H1141/L250	350
TB-EM18WD-H1147	452	TI-BL67-DPV1-S-8	457	TP-203A-CF-H1141/L300	350
TB-EM18WD-H1147/S1126	452	TI-BL67-EIP-2	456	TP-206A-CF-H1141/L100	350
TB-EM30WD-H1147	452	TI-BL67-EIP-4	456	TP-206A-CF-H1141/L150	350
TB-EM30WD-H1147/S1126	452	TI-BL67-EIP-6	456	TP-206A-CF-H1141/L200	350
TB-M18-H1147	452	TI-BL67-EIP-8	456	TP-206A-CF-H1141/L300	350
TB-M18-H1147/S1126	452	TI-BL67-EIP-S-2	457	TP-306A-CF-H1141/L1000	350
TB-M30-H1147	452	TI-BL67-EIP-S-4	457	TP-306A-CF-H1141/L2000	350
TB-M30-H1147/S1126	452	TI-BL67-EIP-S-6	457	TP-306A-CF-H1141/L5000	350
T-CK40-T-FC	465	TI-BL67-EIP-S-8	457	TS-400-2UPN8X-H1141	346
TI-BL20-DN-2	458	TI-BL67-EPN-2	456	TS-400-LI2UPN8X-H1141	348
TI-BL20-DN-4	458	TI-BL67-EPN-4	456	TS-400-LUUPN8X-H1141	348
TI-BL20-DN-6	458	TI-BL67-EPN-6	456	TS-500-2UPN8X-H1141	346
TI-BL20-DN-8	458	TI-BL67-EPN-8	456	TS-500-LI2UPN8X-H1141	348
TI-BL20-DN-S-2	459	TI-BL67-EPN-S-2	457	TS-500-LUUPN8X-H1141	348
TI-BL20-DN-S-4	459	TI-BL67-EPN-S-4	457	TW-BD10X1.5-19-K2	450
TI-BL20-DN-S-6	459	TI-BL67-EPN-S-6	457	TW-BS10X1.5-19-K2	450
TI-BL20-DN-S-8	459	TI-BL67-EPN-S-8	457	TW-I14-B128TW-L43-43-F-B128	450
TI-BL20-DPV1-2	458	TI-BL67-PG-DP-2	456	TW-L43-43-F-B128TW-I14-B128	450
TI-BL20-DPV1-4	458	TI-BL67-PG-DP-4	456	TW-L82-43-P-B128	450
TI-BL20-DPV1-6	458	TI-BL67-PG-DP-6	456	TW-R16-B128	446
TI-BL20-DPV1-8	458	TI-BL67-PG-DP-8	456	TW-R16-B64	446
TI-BL20-DPV1-S-2	459	TI-BL67-PG-DP-S-2	457	TW-R20-B128	446
TI-BL20-DPV1-S-4	459	TI-BL67-PG-DP-S-4	457	TW-R20-K2	446
TI-BL20-DPV1-S-6	459	TI-BL67-PG-DP-S-6	457	TW-R22-HT-B64	448
TI-BL20-DPV1-S-8	459	TI-BL67-PG-DP-S-8	457	TW-R30-B128	446
TI-BL20-EIP-2	458	TI-BL67-PG-EIP-2	456	TW-R30-K2	446
TI-BL20-EIP-4	458	TI-BL67-PG-EIP-4	456	TW-R30-M-B128	446
TI-BL20-EIP-6	458	TI-BL67-PG-EIP-6	456	TW-R30-M-K2	446
TI-BL20-EIP-8	458	TI-BL67-PG-EIP-8	456	TW-R50-90-HT-B128	448
TI-BL20-EIP-S-2	459	TI-BL67-PG-EIP-S-2	457	TW-R50-90-HT-K2	448
TI-BL20-EIP-S-4	459	TI-BL67-PG-EIP-S-4	457	TW-R50-B128	446
TI-BL20-EIP-S-6	459	TI-BL67-PG-EIP-S-6	457	TW-R50-K2	446
TI-BL20-EIP-S-8	459	TI-BL67-PG-EIP-S-8	457	TW-R50-M-B128	448
TI-BL20-PG-EIP-2	458	TI-BL67-PG-EN-2	456	TW-R50-MF-K2	448
TI-BL20-PG-EIP-4	458	TI-BL67-PG-EN-4	456	TW-R50-M-K2	448
TI-BL20-PG-EIP-6	458	TI-BL67-PG-EN-6	456	TW-R7.5-B128	446
TI-BL20-PG-EIP-8	458	TI-BL67-PG-EN-8	456	TW-R80-M-B128	448
TI-BL20-PG-EIP-S-2	459	TI-BL67-PG-EN-S-2	457	TW-R80-M-K2	448
TI-BL20-PG-EIP-S-4	459	TI-BL67-PG-EN-S-4	457	TW-SPP18X1-B128	450
TI-BL20-PG-EIP-S-6	459	TI-BL67-PG-EN-S-6	457	UNT-Justage	196
TI-BL20-PG-EIP-S-8	459	TI-BL67-PG-EN-S-8	457	UNT-Stopper	196
TI-BL20-PG-EN-2	458	TN-EM18WD-H1147	452	USB-2-RS232	576
TI-BL20-PG-EN-4	458	TN-EM18WD-H1147/S1126	452	VB2-FKM-FKM-FSM57	737
TI-BL20-PG-EN-6	458	TNER-Q80-H1147	454	VB2-FKM-FKM-RSC572-1M	738
TI-BL20-PG-EN-8	458	TNLR-Q350-H1147	454	VB2-FKM-RKC-RSC572-0,5M-0,5M	738
TI-BL20-PG-EN-S-2	459	TNLR-Q80-H1147	454	VB2-FSW-FKW-FSW-45	734
TI-BL20-PG-EN-S-4	459	TNLR-Q80-H1147/S1126	454	VB2-RKC572-1M-FKM-FSM	738
TI-BL20-PG-EN-S-6	459	TNLR-Q80L400-H1147	454	VB2-SP1	484
TI-BL20-PG-EN-S-8	459	TNLR-Q80L400-H1147L	454	VB2-SP2	484
TI-BL67-DN-2	456	TN-M18-H1147	452	WAK3-.../P00	412

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
WAK3-.../S366	412	WKC4.4Q-5/S366	418	WWAK5P3.1-.../XOR	414
WAK3-.../S90	412	WKC4.4Q-5/S90	418	WWAS3-.../P00	416
WAK3-.../XOR	412	WKC4.5Q-5/S366/S1538	418	WWAS3-.../S366	416
WAK3-...-WAS3/P00	398	WKC4.5Q-5/S90/S1538	418	WWAS3-.../S90	416
WAK3-...-WAS3/S90	398	WKC4Q-5/S366	418	WWAS3-.../XOR	416
WAK3-...-WAS3/XOR	398	WKC4Q-5/S90	418	WWAS3-5/S2429/S2430	402
WAK3-5/S2429/S2430	402	WKP3-.../P00	392	WWAS4-.../P00	416
WAK3P2-.../P00	412	WKP3-.../S90	392	WWAS4-.../S366	416
WAK3P2-.../S366	412	WKP3-.../XOR	392	WWAS4-.../S90	416
WAK3P2-.../S90	412	WKP3P2-.../P00	394	WWAS4-.../XOR	416
WAK3P2-.../XOR	412	WKP3P2-.../S90	394	WWAS4.21-.../P00	416
WAK4-.../P00	412	WKP3P2-.../XOR	394	WWAS4-5/S2429/S2430	402
WAK4-.../S366	412	WKP4-.../P00	392	WWAS5-.../XOR	416
WAK4-.../S90	412	WKP4-.../S90	392	WWAS5-.../S366	416
WAK4-.../XOR	412	WKP4-.../XOR	392	WWAS5-.../S90	416
WAK4-...-WAS4/P00	398	WKP4P2-.../P00	394	WWAS5-.../XOR	416
WAK4-...-WAS4/S2119	404	WKP4P2-.../S90	394	ZKP3-.../P00	392
WAK4-...-WAS4/S90	398	WKP4P2-.../XOR	394	ZKP3-.../S90	392
WAK4-...-WAS4/XOR	398	WM1 WIDERSTANDSMODUL	574	ZKP3-.../XOR	392
WAK4.21-.../P00	412	WSC4.4Q-5/S366	418	ZKP4-.../P00	392
WAK4.21-.../S90	412	WSC4.4Q-5/S90	418	ZKP4-.../S90	392
WAK4-5/S2429/S2430	402	WSC4.5Q-5/S366/S1538	418	ZKP4-.../XOR	392
WAK4P2-.../P00	412	WSC4.5Q-5/S90/S1538	418	ZWKP3-.../P00	392
WAK4P2-.../S366	412	WSC4Q-5/S366	418	ZWKP3-.../S90	392
WAK4P2-.../S90	412	WSC4Q-5/S90	418	ZWKP3-.../XOR	392
WAK4P2-.../XOR	412	WSP3-.../P00	396	ZWKP3P2-.../P00	394
WAK5-.../P00	412	WSP3-.../S90	396	ZWKP3P2-.../S90	394
WAK5-.../S366	412	WSP3-.../XOR	396	ZWKP3P2-.../XOR	394
WAK5-.../S90	412	WSP4-.../P00	396	ZWKP4-.../P00	392
WAK5-.../XOR	412	WSP4-.../S90	396	ZWKP4-.../S90	392
WAS3-.../P00	416	WSP4-.../XOR	396	ZWKP4-.../XOR	392
WAS3-.../S366	416	WWAK3-.../P00	412	ZWKP4P2-.../P00	394
WAS3-.../S90	416	WWAK3-.../S90	412	ZWKP4P2-.../S90	394
WAS3-.../XOR	416	WWAK3-.../XOR	412	ZWKP4P2-.../XOR	394
WAS3-5/S2429/S2430	402	WWAK3-5/S2429/S2430	402		
WAS4-.../P00	416	WWAK3P2-.../P00	414		
WAS4-.../S366	416	WWAK3P2-.../S366	414		
WAS4-.../S90	416	WWAK3P2-.../S90	414		
WAS4-.../XOR	416	WWAK3P2-.../XOR	414		
WAS4.21-.../P00	416	WWAK4-.../P00	412		
WAS4-1-WAK4/S2429/S2430	402	WWAK4-.../S90	412		
WAS4-2-WAK4/S2429/S2430	402	WWAK4-.../XOR	412		
WAS4-5/S2429/S2430	402	WWAK4.21-.../P00	414		
WAS4-5-WAK4/S2429/S2430	402	WWAK4.21-.../S90	414		
WAS5-.../P00	416	WWAK4-2-WAS4/S2119	404		
WAS5-.../S366	416	WWAK4-5/S2429/S2430	402		
WAS5-.../S90	416	WWAK4P2-.../P00	414		
WAS5-.../XOR	416	WWAK4P2-.../S366	414		
WAS5-THERMO	646	WWAK4P2-.../S90	414		
WI40-M18-LIU5	184	WWAK4P2-.../XOR	414		
WI70-M18-LIU5	184	WWAK4P3-.../P00	414		
WIM40-Q20L60-LIU5-H1141	184	WWAK4P3-.../S366	414		
WIM70-Q20L100-LIU5-H1141	184	WWAK4P3-.../S90	414		
WK4.5T-10/S2500	467	WWAK4P3-.../XOR	414		
WK4.5T-10-RS4.5T/S2500	467	WWAK4P3.1-.../P00	414		
WK4.5T-2/S2500	467	WWAK4P3.1-.../S90	414		
WK4.5T-25/S2500	467	WWAK4P3.1-.../XOR	414		
WK4.5T-25-RS4.5T/S2500	467	WWAK5-.../P00	412		
WK4.5T-2-RS4.5T/S2500	467	WWAK5-.../S90	412		
WK4.5T-5/S2500	467	WWAK5-.../XOR	412		
WK4.5T-50/S2500	467	WWAK5P3.1-.../P00	414		
WK4.5T-50-RS4.5T/S2500	467	WWAK5P3.1-.../S366	414		
WK4.5T-5-RS4.5T/S2500	467	WWAK5P3.1-.../S90	414		



	Opto-Sensoren	Photoelectric sensors	Détecteurs photoélectriques
	Reflexionslichtschranke	Retro-reflective sensors	Détecteurs rétro-réfléctifs
	Reflexionslichtschranke mit Polarisationsfilter	Retro-reflective sensors with Polarisation filter	Détecteurs rétro-réfléctifs avec Filtre de polarisation
	Reflexionslichttaster	Diffuse mode sensors	Détecteurs diffus
	Reflexionslichttaster mit Hintergrundausblendung	Fixed field sensors With background suppression	Détecteurs diffus avec Suppression de l'arrière-plan
	Winkellichttaster	Convergent mode sensors	Détecteurs convergents
	Einweglichtschranke Sender	Opposed mode sensor - emitter	Barrières photoélectriques émetteur
	Einweglichtschranke Empfänger	Opposed mode sensor - receiver	Barrières photoélectriques récepteur
	Basisgerät für Glaslichtwellenleiter	Glass fibre optic sensor	Détecteur pour fibre optique en verre
	Basisgerät für Kunststofflichtwellenleiter	Plastic fibre optic sensor	Détecteur pour fibre optique plastique

	Merkmale/besondere Eigenschaften	Special Features	Caractéristiques
	100 bar	Druckfest bis 100 bar	Pressure resistant up to 100 bar
	500 bar	Druckfest bis 500 bar	Pressure resistant up to 500 bar
	analog +	Erweiterter Analog-Messbereich	Extended analogue measuring range
	AS-i	AS-Interface®-Busanschluss	AS-Interface® bus connection
	climate proof	Klimawechselfest	Résistant aux changements de températures brusques
	dynamic-output	Dynamischer Ausgang (Ringsensoren)	Sortie dynamique (détecteurs annulaires)
	NAMUR-Sensor mit ATEX-Zulassung	NAMUR sensor with ATEX approval	Détecteur NAMUR avec certificat ATEX
	ATEX Gruppe II Kategorie 1 D	ATEX group II category 1 D	ATEX classe II catégorie 1 D
	ATEX Gruppe II Kategorie 2 G	ATEX group II category 2 G	ATEX classe II catégorie 2 G
	ATEX Gruppe II Kategorie 1 G	ATEX group II category 1 G	ATEX classe II catégorie 1 G
	ATEX Gruppe II Kategorie 3 G	ATEX group II category 3 G	ATEX classe II catégorie 3 D
	ATEX Gruppe II Kategorie 3 D	ATEX group II category 3 D	ATEX classe II catégorie 3 D
	ATEX Gruppe I Kategorie M1	ATEX group I category M1	ATEX classe I catégorie M1
	Ex	Sensor nach EN 60947-5-6 (NAMUR)	Détecteur suivant EN 60947-5-6 (NAMUR)
	harsh	Extreme Umgebungsbedingungen (IP69K)	Conditions d'environnement extrêmes (IP69K)
	interface	Erweiterte Parametrierung mit Programmiergerät	Paramétrage étendu avec appareil de programmation
	MF immune	Magnetfeldfest (schweißfest)	Insensible aux champs magnétiques
	rotation-monitoring	Drehzahlwächter, Schalterpunkt einstellbar	Contrôleurs de rotation, point de commutation réglable
	SIL2	Funktionale Sicherheit bis einschließlich SIL2	Sécurité fonctionnelle jusque SIL2 y compris
	selective FE	Ausgang nur durch FE-Metalle zu betätigen	Sortie uniquement à exciter par des métaux FE
	selective NF	Ausgang nur durch NF-Metalle zu betätigen	Sortie uniquement à exciter par des métaux NF
	selective-NF/FE	2 Ausgänge: 1 Ausgang nur durch FE-Metalle, 1 Ausgang nur durch NF-Metalle zu betätigen	2 sorties: 1 sortie à exciter seulement par des métaux FE, 1 sortie à exciter seulement par des métaux NF
	Sn +	Erhöhter Schaltabstand	Plage de commutation étendue
	static output	Statischer Ausgang (Ringsensoren)	Sortie statique (détecteurs annulaires)
	T -40 °C	Erweiterter Temperaturbereich -40...+70 °C	Plage de température étendue -40...+70 °C
	T +100 °C	Erweiterter Temperaturbereich -25...+100 °C	Plage de température étendue -25...+100 °C
	T +120 °C	Erweiterter Temperaturbereich -25...+120 °C	Plage de température étendue -25...+120 °C
	T +160 °C	Erweiterter Temperaturbereich -25...+160 °C	Plage de température étendue -25...+160 °C
	teflon	Gehäuse teflonbeschichtet	Boîtier téflonisé
	underwater	Gehäuse seewasserfest, bis 500 m Tiefe	Boîtier résistant à l'eau de mer, jusqu'à une profondeur de 500 m
	uprox+®	uprox+®-Faktor-1-Sensor	uprox+® détecteurs FACTEUR1
	wash down	Gehäuse in Schutzart IP68/IP69K	Boîtier en mode de protection IP68/IP69K
	e1	Zulassung des Kraftfahrzeugbundesamt (KBA)	Autorisation par l'office fédéral de l'automobile (le Kraftfahrzeugbundesamt - KBA)
	load dump	Besonders hohe Störfestigkeit zur Verwendung in KFZ-Bordnetzen	Haute résistance aux interférences pour l'utilisation dans les réseaux de bord véhicule
	BCI 100 V/m 100 mA		
	I	Erhöhter Temperaturbereich (Kap. Sensoren)	Plage de température étendue (Détecteurs cap.)

	Werkstoff	Materials	Matière
	ABS	Acrylnitril-Butadien-Styrol	Acrylonitrile-butadiène-styrène
	Al203	Aluminiumoxid-Keramik	Oxyde d'aluminium céramique
	Acryl	Polymethylmethacrylat (PMMA)	Polyméthacrylate (PMMA)
	Crastin	Crastin (PBT)	Crastin (PBT)
	CuZn-Cr	Messing verchromt	Chrome-plated brass
	CuZn-Ni	Messing vernickelt	Nickel-plated brass
	CuZn-T	Messing teflonisiert	Teflon-coated brass
	DURO	Duroplast	Thermoset
	EP	Epoxyd-Harz	Epoxy resin
	FEP	Polyfluorethylenpropylen	Polyfluorethylene propylene
	GD-Al	Aluminium-Druckguss	Aluminium, die-cast
	GD-CuZn	Messing-Druckguss	Brass, die-cast
	GD-Zn	Zink-Druckguss	Zinc, die-cast
	Glass	Glas	Glass
	PC (Lexan)	Polycarbonat	Polycarbonate
	LCP	Liquid Crystal Polymer	Liquid Crystal Polymer
	MABS	Methylmethacrylat-Acrylnitril-Butadien-Styrol	Méthacrylate de méthyle-acrylonitrile-butadiène-styrène
	PA	Polyamid	Polyamide
	PA-T	Polyamid teflonisiert	Polyamide, teflon-coated
	PA-X	Polyamid strahlenvernetzt	Irradiated polyamide
	PEEK	Polyetheretherketon	Polyetheretherketone
	PBT	Polybutylenterephthalat	Polybutylenterephthalate
	POM (Delrin)	Polyoxymethylen/Polyacetal	Polyoxyméthylène/Polyacetal
	PP	Polypropylen	Polypropylene
	PUR	Polyurethan	Polyurethane
	PTFE	Teflon (PTFE), Polytetrafluorethylen	Teflon (PTFE), Polytetrafluorethylene
	PVC	Polyvinylchlorid	Polyvinyl chloride
	PVC-X	PVC strahlenvernetzt	PVC, irradiated
	PVDF	Polyvinylidenfluorid	Polyvinylidènefluorure
	Resin	Kunstharz	Résine
	Rilsan	Rilsan (PA)	Rilsan (PA)
	silicone	Silikon	Silicone
	Trogamid	Trogamid (PA amorph)	Trogamid (PA amorphous)
	TPU	Thermoplastisches Polyurethan	Thermoplastic polyurethane
	ULTEM	ULTEM (PEI), Polyeterimid	ULTEM (PEI), Polyéthérimide
	VA	Edelstahl, rostfrei	Stainless steel
	VA-T	Edelstahl, teflonisiert	Stainless steel, teflon-coated
	Vestamid	Vestamid (PA)	Vestamid (PA)

	Allgemein/Sensortechnik	General/Sensors	Général/Détecteurs
	Kabelgerät, aktive Fläche vorn	Cabel device, front sensing	Appareil à câble, face active frontale
	Kabelgerät, aktive Fläche mittig	Cabel device, central active face	Appareil à câble, face active centrale
	Steckergerät, aktive Fläche vorn	Connector device, front sensing	Appareil à connecteur, face active frontale
	Steckergerät, aktive Fläche mittig	Connector device, central active face	Appareil à connecteur, face active centrale
	Bündiger Einbau	Flush mountable	Montage blindé
	Nicht bündiger Einbau	Non-flush mountable	Montage non-blindé
	Steckeranschluss	Connector	Raccordement par connecteur
	Kabelanschluss	cable	Raccordement par câble
	Kabelanschluss 0,5 m lang	0,5 m cable	Raccordement par câble de 0,5 m
	Kabelanschluss 2 m lang	2 m cable	Raccordement par câble de 2 m
	Klemmenraum-Anschluss	Terminal chamber	Raccordement par boîte à bornes
	Schließer (N.O.)	N.O. - normally open	Contact N.O. (normalement ouverte)
	Öffner (N.C.)	N.C. - normally closed	Contact N.C. (normalement fermée)
	Umschalter	SPDT contact	Commutateur inverseur
	Kurzschlussfest	Short-circuit protected	Protection contre les courts-circuits
	Sensor, Dreidraht, pnp	Sensor, 3-wire, pnp	Détecteur, 3 fils, pnp
	Sensor, Dreidraht, npn	Sensor, 3-wire, npn	Détecteur, 3 fils, npn
	Sensor, Zweidraht	Sensor, 2-wire	Détecteur, 2 fils

	Ultraschallsensoren	Ultrasonic sensors	Détecteurs ultrasoniques
	Ultraschall-Taster	Ultrasonic diffuse mode sensors	Systèmes diffus ultrasoniques
	Ultraschall-Schranke (Sender)	Ultrasonic opposed mode sensor - emitter	Systèmes barrières ultrason. (émetteur)
	Ultraschall-Schranke (Empfänger)	Ultrasonic opposed mode sensor - receiver	Systèmes barrières ultrason. (récepteur)

	Allgemein/Interfacetechnik	General/Interface technology	Général/Technique d'interface
	Sensor, NAMUR	Sensor, NAMUR	Détecteur, NAMUR
	Potentialfreier Transistorausgang	Potential-free transistor output	Sortie transistorisée libre de potentiel
	Transistorausgang	Transistor output	Sortie transistorisée
	Transistor, minusschaltend	Transistor, npn	Transistor, à commutation négative
	Transistor, plusschaltend	Transistor, pnp	Transistor, à commutation positive
	Elektronikausgang	Electronic output	Sortie électronique
	Störmeldung (Ausgang)	Alarm indication (output)	Signalisation de défaut (sortie)
	Fortschaltausgang	Pulse output	Sortie d'impulsions auxiliaires
	Spannungsquelle	Voltage source	Source de tension
	Wechselspannungssignal	AC voltage signal	Signal de tension alternative
	Stromquelle	Current source	Source de courant
	Impuls (externe Signalquelle)	Pulse (external signal source)	Impulsion (source de signaux externe)
	Kurzschlussfest	Short-circuit protected	Protection contre les courts-circuits
	Mechanischer Kontakt	Mechanical contact	Contact mécanique
	Mechanischer Kontakt mit Widerstandsbeschaltung	Mechanical contacts with resistor circuitry	Câblage par résistances
	Temperaturmesswertaufnehmer Ni100	Resistance temperature detector Ni100	Capteur de température Ni100
	Temperaturmesswertaufnehmer Pt100	Resistance temperature detector Pt100	Capteur de température Pt100
	Temperaturwiderstand NTC	NTC temperature resistor	Résistance de température NTC
	Thermoelement	Thermocouple	Thermocouple
	Widerstand in 2-Draht-Schaltung	2-wire resistor	Résistance en technique 2 fils
	Widerstand in 3-Draht-Schaltung	3-wire resistor	Résistance en technique 3 fils
	Widerstand in 4-Draht-Schaltung	4-wire resistor	Résistance en technique 4 fils
	Potentiometer	Potentiometer	Potentiomètre
	Kontaktsschutz: Varistor	Contact protection: Varistor	Protection de contact: varistor
	2-Draht-Transmitter-Anschluss	2-wire transmitter connection	Raccordement transmetteur 2 fils
	3-Draht-Transmitter-Anschluss	3-wire transmitter connection	Raccordement transmetteur 3 fils
	Kurzschlusserkennung	Short-circuit detection	Reconnaissance court-circuit
	Drahtbruchererkennung	Wire breakage detection	Reconnaissance rupture de câble
	Einstellung der Wirkungsrichtung	Output mode adjustment	Réglage du sens d'action
	Überwachung auf Überschreitung	Overrange monitoring	Contrôle de survitesse
	Überwachung auf Unterschreitung	Underrange monitoring	Contrôle de sous-vitesse
	Fensterfunktion	Window function	Fonction fenêtre
	Drehrichtungserkennung	Direction detection	Reconnaissance sens de rotation
	Schlupfüberwachung	Slip monitoring	Contrôle de glissement
	Frequenz-Strom-Umsetzung	Frequency-to-current conversion	Convertisseur fréquence-courant
	MOSFET	MOSFET	MOSFET
	Triac (potentialfrei, kurzschlussfest)	Triac (potential-free, short-circuit protected)	Protégé contre les courts-circuits

	Allgemein/Feldbustechnik	General/Fieldbus Technology	Général/Technique du bus de terrain
	Kupplung	Female connector	Connecteur femelle
	Stecker	Male connector	Connecteur mâle

	Zulassungen*	Approvals*	Homologations*
	EU-Länder	EU-Countries	Pays EU
	CSA Kanada/USA	CSA Canada/USA	CSA Canada/Etats-Unis
	FM USA/UL USA	FM USA/UL USA	FM Etats-Unis/UL Etats-Unis
	Brasilien	Brazil	Le Brésil
	T.I.I.S Japan	T.I.I.S Japan	T.I.I.S Japon
	NEPSI China	NEPSI China	NEPSI Chine
	ISZ WE RUS/GUS	ISZ WE RUS/GUS	ISZ WE RUS/GUS
	Internationale IECEx-Zertifizierung	International IECEx certification	Certification internationale IECEx

* Die nationalen und internationalen Zulassungen der TURCK-Produkte finden Sie im Internet unter: www.turck.com
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