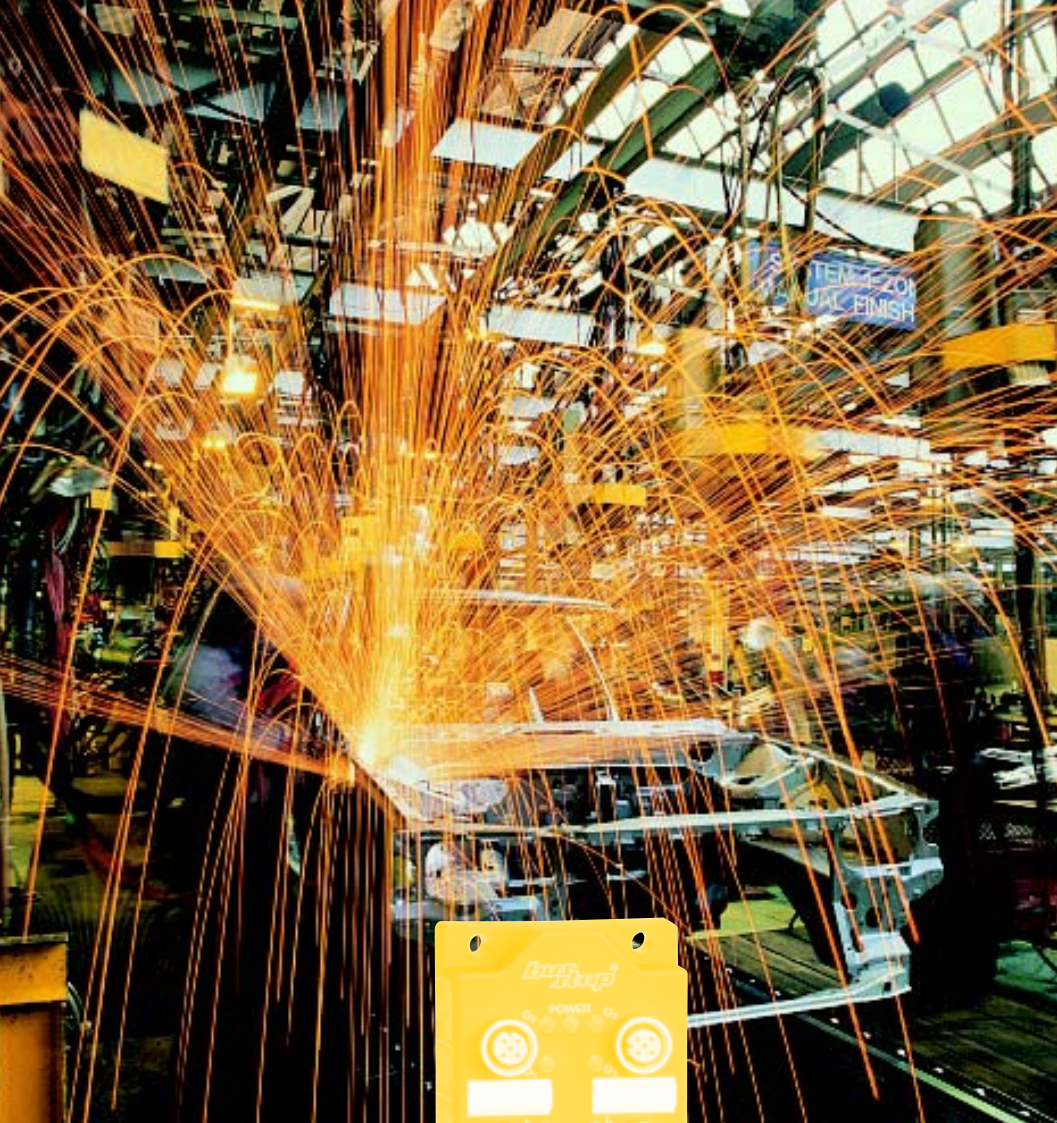


TURCK

Industrial
Automation

COMPACT FIELD BUS STATIONS IN IP67



Fieldbus Components for the Harsh Industrial Environment

The compact fieldbus stations from TURCK are ideal for use under demanding electrical and mechanical conditions in harsh industrial environments and stand out due to their common properties, which is why they offer decisive advantages. No matter whether for PROFIBUS-DP, DeviceNet™ or Ethernet – all compact fieldbus stations are designed according to the same concept and feature the following characteristics:

- Standardised connection technology with metal connectors
- Address setting via coded rotary switches under transparent protective cover
- Robust glass-fibre reinforced plastic housings with fully encapsulated module electronics
- Shock and vibration resistant according to DIN/EN

FXDP – configurable PROFIBUS-DP modules

- Channel-specific diagnostics according to PROFIBUS-DP standard
- Parameterisable I/O range
- Up to 16 channels



FLDP – PROFIBUS-DP modules

- Common short-circuit diagnostics
- Up to 32 channels



REP-DP-0002 – PROFIBUS-DP repeater

- Segmentation and expansion of PROFIBUS-DP networks
- Automatic disconnection of faulty segments



FENP– Ethernet modules

- Common diagnostics
- Website for display of status and I/O data with standard web browser
- Up to 16 channels



Ethernet switch

- Segmentation of network traffic
- 5 or 9 ports
- 10/100 Mbps half/full duplex operation



FSDP – PROFIsafe modules

- Safety-related fieldbus stations
- Up to 16 channels
- SIL 2/SIL 3 according to IEC 61508

FDNP – DeviceNet™ modules

- Individual or common diagnostics
- Connection of actuator supply
- Up to 16 channels

Cordsets – Premoulded cables for bus, power and I/Os

- One solution for all application conditions
- From simple PVC through PUR up to highly flexible cables
- Straight or angled connectors

Accessories

- T- and Y-pieces
- Terminating resistors
- Flange connectors
- Feed-through receptacles
- Passive junction boxes

REP-DN – CAN (DeviceNet™) repeater

- Segmentation and expansion of CAN or DeviceNet™ networks

FDNL – DeviceNet™ modules

- Individual or common diagnostics
- Up to 16 channels
- Power supply via DeviceNet™

Bitte senden Sie mir Unterlagen:

Sensortechnik

- ☐ Induktive Sensoren
- ☐ *uprox*® induktive Sensoren
- ☐ Induktive Sensoren für Schwenkantriebe
- ☐ Magnetfeldsensoren
- ☐ Opto-Sensoren
- ☐ Geräte für den Personenschutz
- ☐ Kapazitive Sensoren
- ☐ Ultraschallsensoren
- ☐ Strömungssensoren
- ☐ Drucksensoren
- ☐ Füllstandssensoren *levelprox*®
- ☐ Temperatursensoren
- ☐ Identifikationssysteme
- ☐ Linearwegsensoren
- ☐ Drehwegsensoren
- ☐ Steckverbinder
- ☐ CD-ROM Sensortechnik

Interfacetechnik

- ☐ Interfacetechnik im Aufbaugehäuse für Hutschiene (DIN 50022), Platten- oder Bodenmontage
- ☐ Interfacetechnik auf 19"-Karte für Baugruppenträger (DIN 41494)
- ☐ CD-ROM Interfacetechnik
- ☐ Miniaturrelais, Industrirelais, Zeitwürfel, Sockel
- ☐ Zeit- und Überwachungsrelais
- ☐ Ex-Schutz – Grundlagen für die Praxis (Übersichtsposter)

Feldbustechnik

- ☐ Kompakte Feldbuskomponenten PROFIBUS-DP/DeviceNet™/Ethernet
- ☐ *piconet*® – modulares Feldbus-I/O-System in IP67
- ☐ BL67 – modulares Feldbus-I/O-System in IP67
- ☐ BL20 – modulares Feldbus-I/O-System in IP20
- ☐ Remote-I/O-System *excom*®
- ☐ Segmentkoppler
- ☐ FOUNDATION™ fieldbus Feldbuskomponenten
- ☐ PROFIBUS-PA Feldbuskomponenten
- ☐ Multibarriere
- ☐ Feldbussystem *sensoplex*® 2/2 Ex

Please send me more information:

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- ☐ Inductive sensors
- ☐ *uprox*® inductive sensors
- ☐ Inductive sensors for rotary actuators
- ☐ Magnetic-field sensors
- ☐ Photoelectric sensors
- ☐ Machine safety equipment
- ☐ Capacitive sensors
- ☐ Ultrasonic sensors
- ☐ Flow sensors
- ☐ Pressure sensors
- ☐ Level sensors *levelprox*®
- ☐ Temperature sensors
- ☐ Identification systems
- ☐ Linear position sensors
- ☐ Rotary position sensors
- ☐ Connectors
- ☐ CD-ROM Sensors

Interface technology

- ☐ Devices in modular housings for top-hat rail (DIN 50022) or panel mounting
- ☐ Devices on 19" card for DIN-rail mounting (DIN 41494)
- ☐ CD-ROM Interface technology
- ☐ Miniature relays, industrial relays, time cubes, sockets
- ☐ Programmable relays and timers
- ☐ Explosion protection – basics for practical application (overview poster)

Fieldbus technology

- ☐ Compact fieldbus components PROFIBUS-DP/DeviceNet™/Ethernet
- ☐ *piconet*® – modular fieldbus I/O-system in IP67
- ☐ BL67 – modular fieldbus I/O-system in IP67
- ☐ BL20 – modular fieldbus I/O-system in IP20
- ☐ Remote I/O system *excom*®
- ☐ Segment coupler
- ☐ FOUNDATION™ fieldbus fieldbus components
- ☐ PROFIBUS-PA fieldbus components
- ☐ Multibarrier
- ☐ Fieldbus system *sensoplex*® 2/2 Ex



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Compact fieldbus stations in IP67

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System Description PROFIBUS-DP

System description

Within the PROFIBUS protocol family, PROFIBUS-DP is the speed-optimised protocol for communication between automation devices and the field periphery. PROFIBUS-DP is designed to replace cost-intensive, parallel signal transmission via digital and analogue sensors and actuators. PROFIBUS-DP is based on DIN 19245, part 1 and part 4. During the course of European fieldbus standardisation, PROFIBUS-DP has been integrated into the European field bus standard EN 50170.

PROFIBUS-DP is a master/slave system. During operation, the master constantly scans the connected slave stations.

Several masters may be connected within a single network; in this case they pass on their transmission permission (Token Passing).

PROFIBUS-DP uses a bit transmission layer (Physical Layer) based on the industrially proven RS485 standard. The system uses a shielded twisted 2-wire cable that is extremely resistant to electrical interference.

PROFIBUS-DP is suited for connection of a large number of I/O points. Up to 126 addressable bus nodes enable connection of thousands of analogue and digital I/O points within a network.

Every PROFIBUS-DP module has a so-called "GSD" file (Gerätstammdatendatei = device data base file) containing detailed information on the module: I/O data volume, transmission rates, revision status etc. The GSD file is needed to configure a station within a PROFIBUS-DP system. The GSD files can be downloaded from TURCK's internet site (www.turck.com).

Maximum system expansion

It is not permitted to use more than 32 devices per segment. One segment is defined as the bus section between two repeaters. If no repeaters are used, the entire network corresponds to one segment. The master and the repeaters also count among the connectable

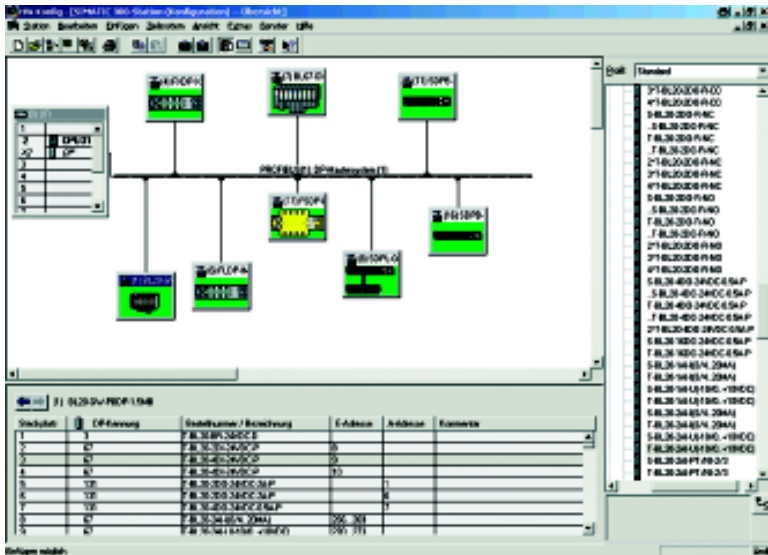
devices. Segments must comply with the specified maximum length and the respective transmission rates. Up to nine repeaters may be connected within a network.

The maximum length of a bus line within a segment and the maximum number of repeaters are listed in the following table.

Transmission speed	Length of the bus line	Max. no. of repeaters	Max. no. of bus stations
9,6 KBd	1200 m	2	126
19,2 KBd	1200 m	2	126
93,75 KBd	1200 m	2	126
187,5 KBd	1000 m	2	126
500 KBd	400 m	4	126
1,5 MBd	200 m	6	126
12 MBd	100 m	9	126

PROFIBUS-DP – configuration software

The screenshot shows an excerpt of the PROFIBUS-DP configuration software.

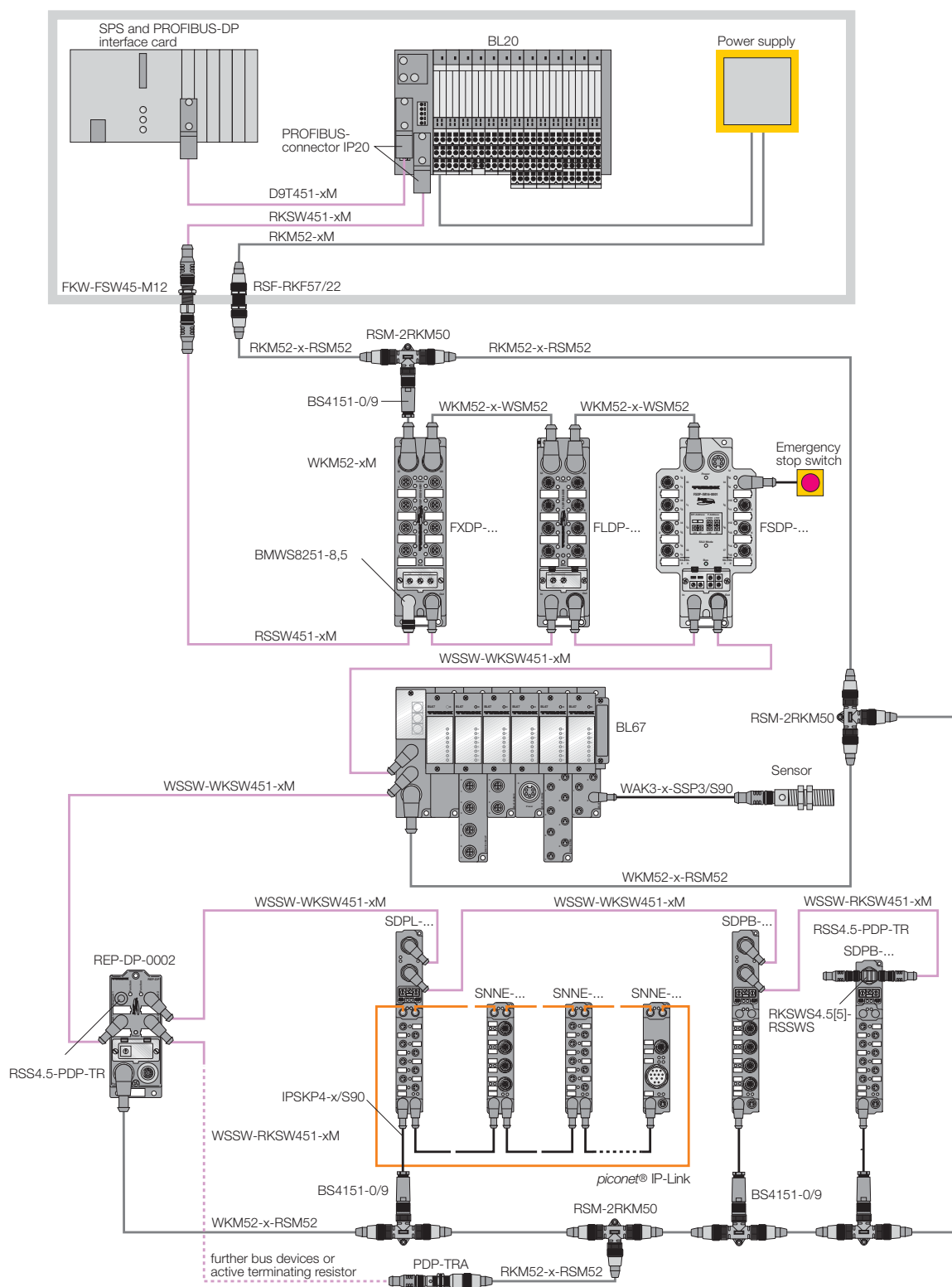


Application example

The illustration outlines a model PROFIBUS-DP network assembled with TURCK devices. Alongside the compact IP67 fieldbus stations described in the catalogue, TURCK offers additional modular bus components for the IP20

(BL20) and the IP67 environment (BL67 and *piconet*®) which excel in flexibility and user-friendly set-up and configuration.

Premoulded cables in various designs, as well as field-wireable connectors, feed-through receptacles for cabinet mounting, flange connectors, tees, terminating resistors and repeaters are available for network construction.



System description

DeviceNet™ is an inexpensive transmission system for networking industrial field devices such as limit switches, photoelectric sensors, valve terminals, motor contactors, barcode scanners, frequency converters etc. Due to direct interconnection of devices, wiring expenses can be reduced significantly and detailed diagnostics, which are infeasible with conventional wiring methods, are thus provided.

DeviceNet™ is based on a so-called broadcast-oriented communication architecture, the CAN (Controller Area Network). CAN uses the CSMA/CA-bus access method. CSMA/CA ensures reliable transmission of the message with

the highest priority. The DeviceNet™ protocol defines these higher priority messages by giving the input/output data messages the highest priority whereas configuration messages have lower priority.

A DeviceNet™ network supports up to 64 nodes and an almost unlimited number of I/Os. The bus uses a line topology with short drop lines. Data and power are transferred via a single cable.

The bus chips and the input channels of the nodes are powered via the 24-VDC power supply. Some TURCK stations require an additional 24 VDC auxiliary power supply to operate possibly needed outputs.

The communication profile of the stations comprises: UCMM, Offline Connection Set, Polled I/O, COS/Cyclic, Bitstrobe, Device Heartbeat Message, Device Shut Down Message. The user may select a master/slave, a multi-master or a combined system configuration according to his application needs.

Maximum system expansion

DeviceNet™ is based on a line structure with drop cables. The line is the main bus cable (trunk line) and requires a 120 Ω terminating resistor on both ends. The length of the trunk line depends on the

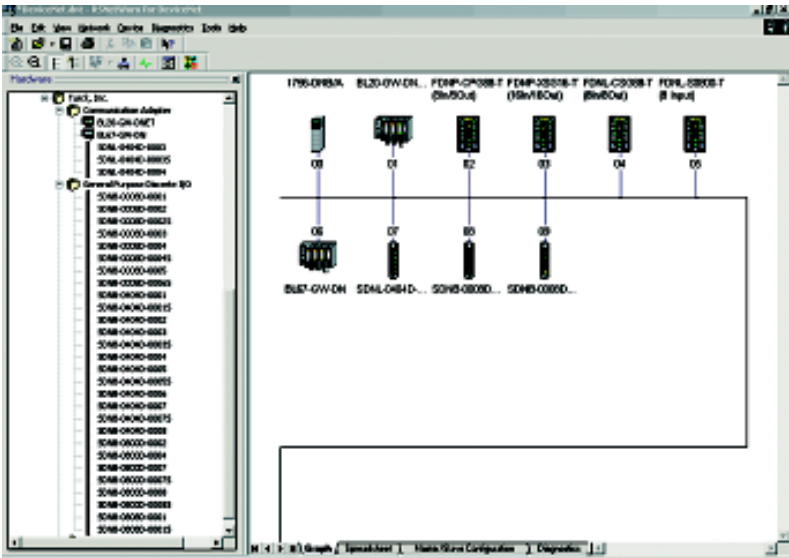
transmission speed and the cable type used. Drop lines are branches off the bus and can be up to 6 m long.

The total (cumulated) length of the drops also depends on the transmission speed. The following table shows the maximum lengths of a DeviceNet™ line.

Transmission speed	Trunk line (max.)	Drop line (per drop)	Drop lines (total)	Max. no. of nodes
125 kBit/s	500 m (1640 ft)	6 m (20 ft)	156 m (512 ft)	64
250 kBit/s	250 m (820 ft)	6 m (20 ft)	78 m (256 ft)	64
500 kBit/s	100 m (328 ft)	6 m (20 ft)	39 m (128 ft)	64

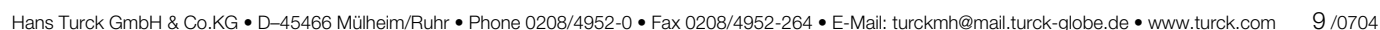
DeviceNet™ configuration software

The screenshot shows an excerpt of the DeviceNet™ configuration software.



1

Premoulded cables in various designs, as well as field-wireable connectors, feed-through receptacles for cabinet mounting, flange connectors, tees, terminating resistors and repeaters are available for network construction.



System Description Ethernet

System description

The most popular standard for networking office computers and associated components is Ethernet according to IEEE 802.3. At the control level of industrial networks, data transmission is almost entirely based on Ethernet networking technology. This standard permits interconnection of devices from different manufacturers via one and the same interface: the identical transmission physics and access mechanisms are user-friendly and significantly reduce network installation times and costs. E-mail and web servers etc. also use this technology with all its well established advantages. Data can be transferred world-wide via the internet from one Ethernet device to the other.

Advanced automation solutions for the control level, at which large data packets

have to be transmitted, mostly apply Ethernet as networking technology. Below this level, at the field level, where signals have to be handled, PROFIBUS-DP, DeviceNet™ or AS-Interface® are primarily used. The disadvantages are obvious: the transmission physics and the installation techniques differ, so that the networking technologies have to be made compatible with each other.

In order to obtain consistency within the automation pyramid, Ethernet is suited to be used as a fieldbus right down to the sensor/actuator level.

The availability of industrial hubs and switches and the development of suitable application protocols enable consistent use of the Ethernet TCP/IP standard down

to the signal level. Due to the uniform mode of data transmission between the control and the field level, gateways, which are used to make different networks compatible with each other, are no longer needed and full network transparency is achieved. The Ethernet I/O station can thus be easily connected to local networks. Regardless of the network's location, remote maintenance and process control can be carried out via the internet. Information on the station, such as status and I/O data can be accessed via a standard web server using the HTTP protocol.

Topology

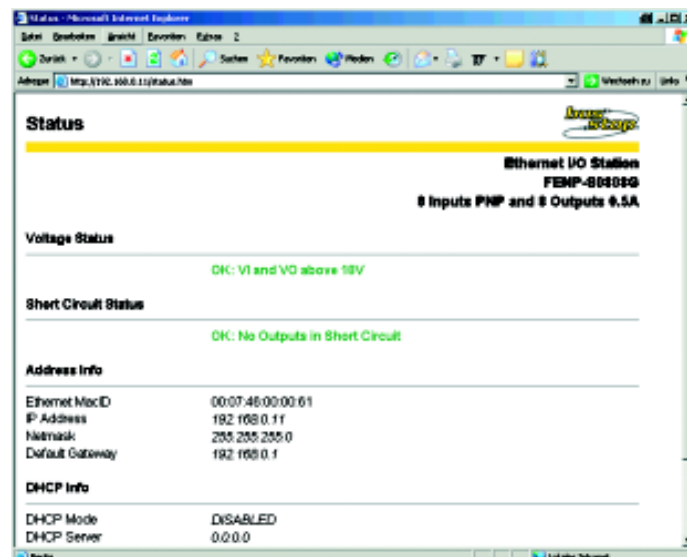
The network topology for interconnection of Ethernet devices is a star or the star-related tree structure. The maximum distance between two devices when using rigid cables for connection may not exceed 100 m. If flexible cables are used, the maximum length depends on the network construction. With a flexible 10 m cable the user is definitely "on the safe side".

Switches and hubs interconnect the Ethernet devices and are thus the nodal points within the star structure. Hubs always send data to and receive data from all nodes, whereas switches feature a structured data transmission mode. The switches organise data transfer within a routing table in which all connected devices are listed.

This ensures that Ethernet data packets are generally only sent to the allocated target address. The Ethernet is thus not overloaded and collisions are avoided.

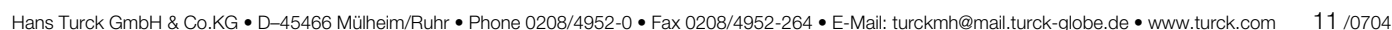
Status polling via web server

The status of TURCK's FENP stations can be polled via an integrated web server. The web page to the right shows the station status, possible error indications and address settings.



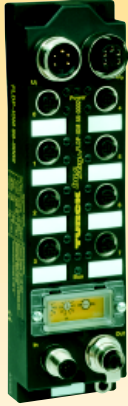
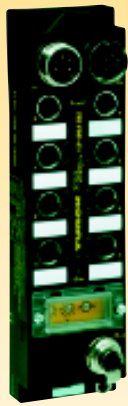
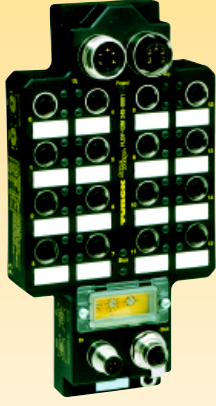
1

Premoulded cables in various designs, as well as field-wireable connectors, feed-through receptacles for cabinet mounting, flange connectors, tees, terminating resistors and repeaters are available for network construction.



PROFIBUS-DP

Compact fieldbus stations - device overview

Housing version 1	Housing version 2	Housing version 3	Housing version 4	Housing version 5
				
Series FXDP Compact flat housing: up to 16 channels, channel diagnostics, configurable I/O range	Series FLDP Compact flat housing: up to 16 channels, two bus connectors, common diagnostics	Series FLDP Compact flat housing: up to 16 channels, one bus connector, common diagnostics	Series FLDP Compact flat housing: up to 32 channels, common diagnostics	Series FSDP compact flat housing: up to 16 channels for PROFI-safe, SIL 2/3

Type	Ident.-no.	Housing version	Number of inputs	Number of outputs	Number of Inputs/outputs per connector	Max. load current [A]	integrated bus tee	Data sheets see page
FXDP stations – channel-related diagnostics, parameterisable I/O range								
FXDP-IM8-0001	6825400	1	8	–	1/–	–	•	15
FXDP-IM16-0001	6825401	1	16	–	2/–	–	•	16
FXDP-OM8-0001	6825402	1	–	8	–/1	1,4	•	17
FXDP-OM16-0001	6825403	1	–	16	–/2	1,4	•	18
FXDP-IOM88-0001	6825404	1	8	8	2/2	1,4	•	19
FXDP-CSG88-0001	6825405	1	8	8	1/1	1,4	•	20
FXDP-XSG16-0001	6825406	1	16 configurable channels			1,4	•	21
FLDP stations – common diagnostics								
FLDP-IM8-0001	6825320	2	8	–	1/–	–	•	25
FLDP-IM16-0001	6825326	2	16	–	2/–	–	•	26
FLDP-IM32-0001	6825332	4	32	–	2/–	–	•	27
FLDP-OM8-0001	6825321	2	–	8	–/1	0,5	•	28
FLDP-OM8-0002	6825331	2	–	8	–/1	2	•	29
FLDP-OM16-0001	6825327	2	–	16	–/2	0,5	•	30
FLDP-IOM88-0001	6825322	2	8	8	1/1	0,5	•	31
FLDP-IOM88-0002	6825323	2	8	8	2/2	0,5	•	32
FLDP-IOM84-0001	6825330	2	8	4	2/1	2	•	33
FLDP-IOM84-0002	6825342	3	8	4	2/1	2	–	34
FLDP-IOM1616-0001	6825338	4	16	16	2/2	0,5	•	35
FLDP-IOM248-0001	6825333	4	24	8	2/2	0,5	•	36
FLDP-IOM2012-0001	6825339	4	20	12	Burndy connector	0,5	•	37
FSDP stations for PROFI-safe								
FSDP-IM16-0001	6825360	5	16	–	2/–	–	•	41
FSDP-IOM84-0001	6825361	5	8	4	2/1	2	•	42

Compact fieldbus stations - type code

F L DP - IOM 1616 - 0001

F = Compact fieldbus
station, plastic

L = Economy
X = High feature
S = PROFIsafe

PROFIBUS-DP

Version number

Number of inputs (first two figures)
Number of outputs (last two figures)

IM = input module
OM = output module
IOM = input/output module
For FXDP stations only:
CSG = input and output via one connector
XSG = parameterisable I/O range

2

Compact fieldbus stations - Series FXDP

General information



The fieldbus stations, series FXDP, allow direct connection of up to 16 inputs/ outputs to the PROFIBUS-DP. Glass-fibre reinforced flat plastic housings and the fully encapsulated module electronics guarantee protection degree IP67. Therefore these stations are particularly suited for use in harsh industrial environments.

The station supports transmission rates of up to 12 Mbps and adjusts automatically to the transmission speed determined by the master. The PROFIBUS-DP address is adjusted via three coded rotary switches in a range of 1...126. The switches are

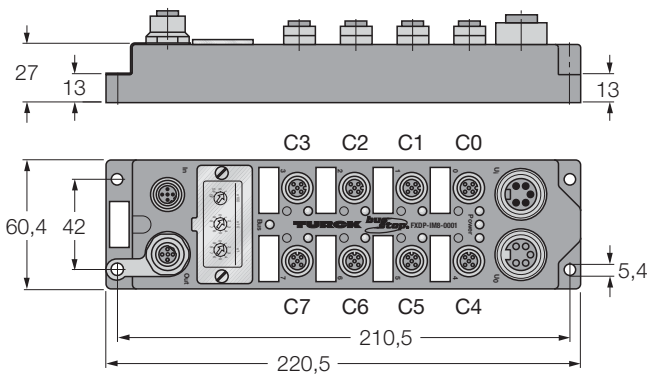
located under a transparent protective cover.

Operating and load voltage are fed separately, so that the load voltage U_L can be disabled individually. Thus it is ensured that the module electronics and all inputs continue operation when the outputs are turned off. Therefore, the load supply diagnostic function can also be disabled via configuration. Supply failures of less than 2.5 ms are compensated and thus do not lead to module malfunction. It is also ensured that voltage recovery cannot result in generation of faulty signals.

General technical data

Characteristics	extended diagnostics, connector-specific short-circuit diagnostics of the sensor supply voltage, channel-specific short-circuit diagnostics of the outputs, complete diagnostic data according to standard via the PROFIBUS-DP, channel-related display of status and errors via LEDs, diagnostics can be mapped to user data area (diagnostic inputs)
Adjustment PROFIBUS-DP address Transmission rate	1...126 (decimal) adjustable via three coded rotary switches 9.6 kbps up to 12 Mbps, automatic
LED indications Bus (dual colour LED) Power (dual colour LED) Inputs (dual colour LED) Outputs (dual colour LED)	green: communication, red: no communication green: operational, OFF: $U_B < 18$ VDC, red: $U_L < 18$ V (modules with digital outputs) green: ON, red: short-circuit green: ON, red: short-circuit
Connections PROFIBUS Power supply Inputs/outputs	nickel-plated brass connectors 1 x male M12 connector (IN), 1 x female M12 connector (OUT), 5-pole, reverse-keyed 1 x 7/8" male connector (IN), 1 x 7/8" female connector (OUT), 5-pole 8 female M12 x 1 connectors, 5-pole
Housing Mounting Degree of protection (IEC 60529/EN 60529) Vibration and shock testing EMC Temperature range – Operating temperature – Storage and transport temperature Dimensions	PA6-GF30, glass-fibre reinforced plastic housing with encapsulated electronics and nickel-plated brass connectors via 4 through-holes, $\varnothing$ 5.4 mm IP67 according to EN 60068-2-6, 2-27 to EN 61000-6-2, IEC 61000-6-4 0 °C to +55 °C (+32 °F to +131 °F) -25 °C to +70 °C (-13 °F to +158 °F) 220.5 x 62.4 x 27 (H x W x D)
Approvals Area of application according to ATEX Directives	 II 3G EEx nA IIC T4 X EC Ex directive 94/9/EG

Compact fieldbus station FXDP-IM8-0001
8 inputs

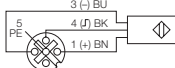


- 8 x 1 inputs
 - Extended diagnostics
 - Short-circuit diagnostics of inputs per connector
 - Diagnostics can be mapped to user data area
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- **General information:**
see page 14

2

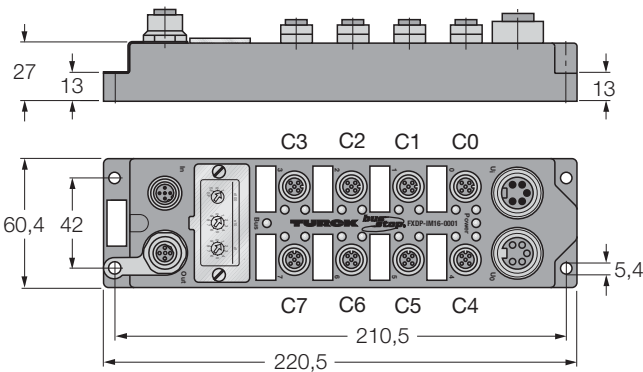
Type	FXDP-IM8-0001									
Ident-no.	6825400									
Configuration file	TU0_ff1f.gsd (downloadable via the internet under www.turck.com)									
Operating voltage U _B	18...30 VDC									
Internal current consumption (via U _B)	< 70 mA									
Input circuits	(8) pnp 3-wire sensors/2-wire sensors									
Input voltage (via U _B)	18...30 VDC									
Input current	< 120 mA per connector, short-circuit protected									
Switching threshold OFF/ON	2 mA / 4 mA									
Switching current limitation	6 mA									
Input time delay	2.5 ms									
Switching frequency	< 250 Hz									
Potential isolation	to bus									
I/O data mapping										
C1P4	connector 1, pin 4, (0 = OFF, 1 = ON)									
SC	common short-circuit indication (0 = OK, 1 = fault)									
SC3	short-circuit indication: channel 3									
Con 2	overload sensor voltage: connector 2									
U _B	U _B < 18 VDC									
		Bit is not used								

Wiring diagrams

Inputs	Bus line ¹⁾	Operating voltage
3 wire pnp sensors  M12 x 1 connectors	Male  Female  1 = 5 VDC²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield M12 x 1 connectors	Male  Female  1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L 7/8" connectors

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only
³⁾ The manufacturer-specific diagnostics can be fully mapped to the user data area via the configuration menu.

Compact fieldbus station FXDP-IM16-0001
16 inputs



- 8 x 2 inputs
- Extended diagnostics
- Short-circuit diagnostics of inputs per connector
- Diagnostics can be mapped to user data area
- Fully encapsulated plastic housing
- Degree of protection IP67

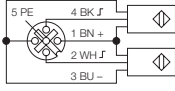
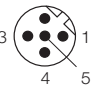
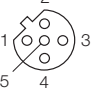
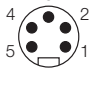
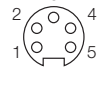
• **General information:**
see page 14

Type	FXDP-IM16-0001
Ident-no.	6825401
Configuration file	TU1_ff1f.gsd (downloadable via the internet under www.turck.com)
Operating voltage U_B	18...30 VDC
Internal current consumption (via U_B)	< 70 mA
Input circuits	(16) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	< 120 mA per connector, short-circuit protected
Switching threshold OFF/ON	2 mA / 4 mA
Switching current limitation	6 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus

I/O data mapping				Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
C1P4	connector 1, pin 4, (0 = OFF, 1 = ON)	Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
SC	common short-circuit indication (0 = OK, 1= fault)		Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
SC3	short-circuit indication: channel 3	Diagnosis ³⁾	Byte 0	–	–	–	–	–	U _B	U _L	SC
Con 2	overload sensor voltage: connector 2		Byte 1	SC 7	SC 6	SC 5	SC 4	SC 3	SC 2	SC 1	SC 0
			Byte 2	SC 15	SC 14	SC 13	SC 12	SC 11	SC 10	SC 9	SC 8
U _B	U _B < 18 VDC		Byte 3	Con 7	Con 6	Con 5	Con 4	Con 3	Con 2	Con 1	Con 0

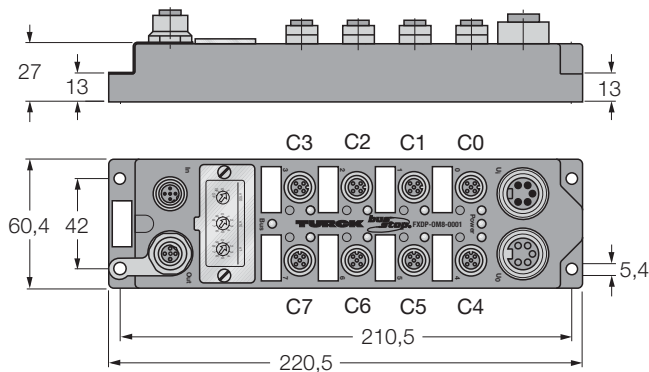
Bit is not used

Wiring diagrams

Inputs	Bus line ¹⁾	Operating voltage
3 wire pnp sensors  M12 x 1 connectors	Male  Female  M12 x 1 connectors	Male  Female  7/8" connectors

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only
³⁾ The manufacturer-specific diagnostics can be fully mapped to the user data area via the configuration menu.

Compact fieldbus station FXDP-OM8-0001
8 outputs



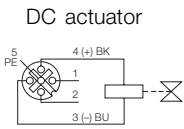
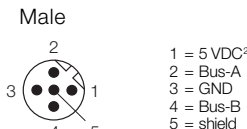
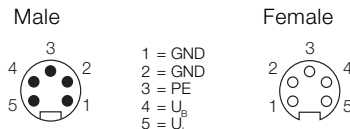
- 8 x 1 outputs (max. 1.4 A per output)
 - Extended diagnostics
 - Short-circuit diagnostics of the outputs per channel
 - Diagnostics can be mapped to user data area
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- **General information:**
see page 14

2

Type		FXDP-OM8-0001
Ident-no.		6825402
Configuration file		TU2_ff1f.gsd (downloadable via the internet under www.turck.com)
Operating/Load supply U_B/U_L		18...30 VDC
Internal current consumption (via U_B)		< 70 mA
Output circuits		(8) DC actuators
Output voltage (via U_L)		18...30 VDC
Output current		1.4 A per output, (ED = 50 %), short-circuit protection
Switching frequency		< 250 Hz
Galvanic isolation		to bus
I/O data mapping		
C1P4	connector 1, pin 4, (0 = OFF, 1 = ON)	
SC	common short-circuit indication (0 = OK, 1 = fault)	
SC3	short-circuit indication: channel 3	
Con 2	overload sensor voltage: connector 2	
U_B	$U_B < 18$ VDC	
U_L	$U_L < 18$ VDC	
		 Bit is not used

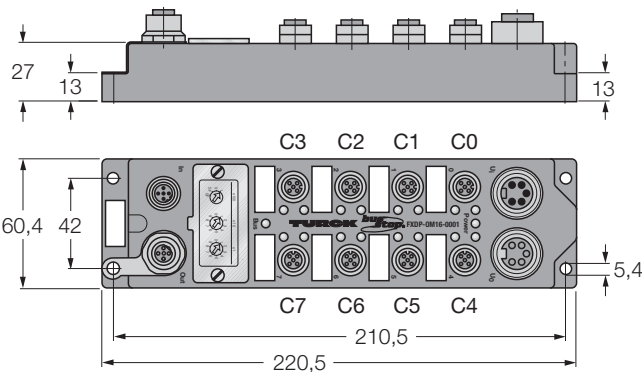
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Output	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
Diagnosis ³⁾	Byte 0	–	–	–	–	–	U_B	U_L	SC
	Byte 1	SC 7	SC 6	SC 5	SC 4	SC 3	SC 2	SC 1	SC 0
	Byte 2	SC 15	SC 14	SC 13	SC 12	SC 11	SC 10	SC 9	SC 8
	Byte 3	Con 7	Con 6	Con 5	Con 4	Con 3	Con 2	Con 1	Con 0

Wiring diagrams

Outputs	Bus line ¹⁾	Operating/load voltage
 M12 x 1 connectors	 M12 x 1 connectors	 7/8" connectors

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only
³⁾ The manufacturer-specific diagnostics can be fully mapped to the user data area via the configuration menu.

Compact fieldbus station FXDP-OM16-0001
 16 outputs



- 8 x 2 outputs (max. 1.4 A per output)
- Extended diagnostics
- Short-circuit diagnostics of the outputs per channel
- Diagnostics can be mapped to user data area
- Fully encapsulated plastic housing
- Degree of protection IP67
- **General information:** see page 14

Type	FXDP-OM16-0001
Ident-no.	6825403
Configuration file	TU3_ff1f.gsd (downloadable via the internet under www.turck.com)

Operating/ Load supply U_B/U_L	18...30 VDC
Internal current consumption (via U_B)	< 70 mA

Output circuits	(16) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	1.4 A per output, (ED = 35 %), short-circuit protection
Switching frequency	< 250 Hz
Galvanic isolation	to bus

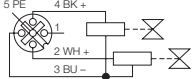
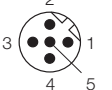
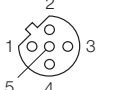
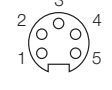
I/O data mapping

C1P4	connector 1, pin 4, (0 = OFF, 1 = ON)
SC	common short-circuit indication (0 = OK, 1= fault)
SC3	short-circuit indication: channel 3
Con 2	overload sensor voltage: connector 2
U_B	$U_B < 18$ VDC
U_L	$U_L < 18$ VDC

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Output	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
Diagnosis ³⁾	Byte 0	–	–	–	–	–	U_B	U_L	SC
	Byte 1	SC 7	SC 6	SC 5	SC 4	SC 3	SC 2	SC 1	SC 0
	Byte 2	SC 15	SC 14	SC 13	SC 12	SC 11	SC 10	SC 9	SC 8
	Byte 3	Con 7	Con 6	Con 5	Con 4	Con 3	Con 2	Con 1	Con 0

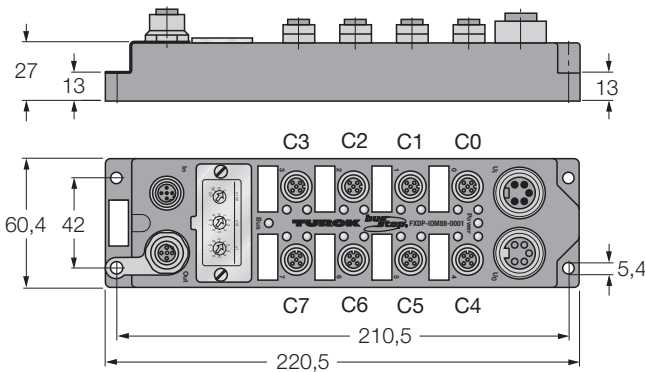
Bit is not used

Wiring diagrams

Outputs	Bus line ¹⁾	Operating/load voltage
DC actuator  M12 x 1 connectors	Male  Female  1 = 5 VDC ²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield M12 x 1 connectors	Male  Female  1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L 7/8" connectors

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only
³⁾ The manufacturer-specific diagnostics can be fully mapped to the user data area via the configuration menu.

Compact fieldbus station FXDP-IOM88-0001
8 inputs/8 outputs



- 4 x 2 inputs
- 4 x 2 outputs (max. 1.4 A per output)
- Extended diagnostics
- Short-circuit diagnostics of inputs per connector
- Short-circuit diagnostics of the outputs per channel
- Diagnostics can be mapped to user data area
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 14

Type	FXDP-IOM88-0001
Ident-no.	6825404
Configuration file	TU4_ff1f.gsd (downloadable via the internet under www.turck.com)
Operating/ Load voltage U_B/U_L	18...30 VDC
Internal current consumption (via U_B)	< 70 mA
Input circuits	(8) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	< 120 mA per connector, short-circuit protected
Switching threshold OFF/ON	2 mA / 4 mA
Switching current limitation	6 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus
Output circuits	(8) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	1.4 A per output, (ED = 50 %), short-circuit protection
Switching frequency	< 250 Hz
Galvanic isolation	to bus

I/O data mapping

C1P4	connector 1, pin 4, (0 = OFF, 1 = ON)
SC	common short-circuit indication (0 = OK, 1 = fault)
SC3	short-circuit indication: channel 3
Con 2	overload sensor voltage: connector 2
U_B	$U_B < 18$ VDC
U_L	$U_L < 18$ VDC

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
Output	Byte 0	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
Diagnostics ³⁾	Byte 0	–	–	–	–	–	U_B	U_L	SC
	Byte 1	SC 7	SC 6	SC 5	SC 4	SC 3	SC 2	SC 1	SC 0
	Byte 2	SC 15	SC 14	SC 13	SC 12	SC 11	SC 10	SC 9	SC 8
	Byte 3	Con 7	Con 6	Con 5	Con 4	Con 3	Con 2	Con 1	Con 0

Bit is not used

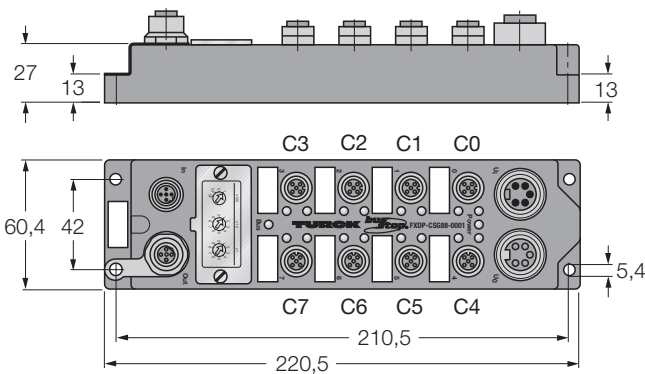
Wiring diagrams

Inputs	Outputs	Bus line ¹⁾	Operating/load voltage
3 wire pnp sensors M12 x 1 connectors	DC actuator M12 x 1 connectors	Male M12 x 1 connectors Female M12 x 1 connectors 1 = 5 VDC ²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield	Male 7/8" connectors Female 7/8" connectors 1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only

³⁾ The manufacturer-specific diagnostics can be fully mapped to the user data area via the configuration menu.

Compact fieldbus station FXDP-CSG88-0001
8 inputs/8 outputs



- 8 x 1 inputs
 - 8 x 1 outputs (max. 1.4 A per output)
 - Extended diagnostics
 - Short-circuit diagnostics of inputs per connector
 - Short-circuit diagnostics of the outputs per channel
 - Diagnostics can be mapped to user data area
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- **General information:**
see page 14

Type	FXDP-CSG88-0001
Ident-no.	6825405
Configuration file	TU6_ff1f.gsd (downloadable via the internet under www.turck.com)
Operating/Load voltage U_B/U_L	18...30 VDC
Internal current consumption (via U_B)	< 70 mA
Input circuits	(8) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	< 120 mA per connector, short-circuit protected
Switching threshold OFF/ON	2 mA / 4 mA
Switching current limitation	6 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus
Output circuits	(8) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	1.4 A per output, (ED = 50 %), short-circuit protection
Switching frequency	< 250 Hz
Galvanic isolation	to bus

I/O data mapping

C1P4	connector 1, pin 4, (0 = OFF, 1 = ON)
SC	common short-circuit indication (0 = OK, 1 = fault)
SC3	short-circuit indication: channel 3
Con 2	overload sensor voltage: connector 2
U_B	$U_B < 18$ VDC
U_L	$U_L < 18$ VDC

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
Output	Byte 0	C7P2	C6P2	C5P2	C4P2	C3P2	C2P2	C1P2	C0P2
Diagnosis ³⁾	Byte 0	–	–	–	–	–	U_B	U_L	SC
	Byte 1	SC 7	SC 6	SC 5	SC 4	SC 3	SC 2	SC 1	SC 0
	Byte 2	SC 15	SC 14	SC 13	SC 12	SC 11	SC 10	SC 9	SC 8
	Byte 3	Con 7	Con 6	Con 5	Con 4	Con 3	Con 2	Con 1	Con 0

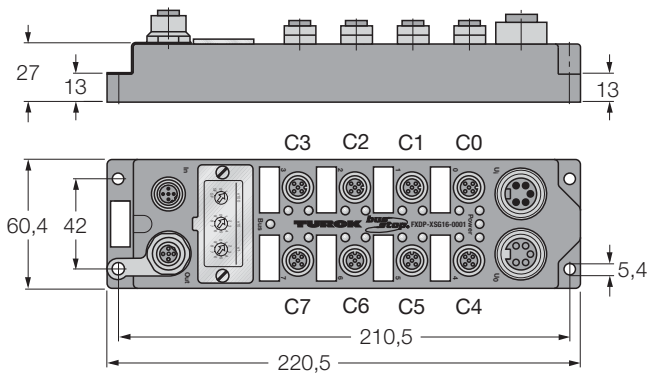
Bit is not used

Wiring diagrams

Inputs/outputs	Bus line ¹⁾	Operating/load voltage
3 wire pnp sensors/DC actuator M12 x 1 connectors	Male Female M12 x 1 connectors	Male Female 7/8" connectors

¹⁾ Reverse keyed according to PNO guidelines ²⁾ Female bus connector only
³⁾ The manufacturer-specific diagnostics can be fully mapped to the user data area via the configuration menu.

Compact fieldbus station FXDP-XSG16-0001
16 configurable channels



- 16 configurable channels
- Configurable user data area
- Extended diagnostics
- Short-circuit diagnostics of inputs per connector
- Short-circuit diagnostics of the outputs per channel
- Diagnostics can be mapped to user data area
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 14
Further information:
see page 22

Type	FXDP-XSG16-0001
Ident-no.	6825406
Configuration file	TU6_ff1f.gsd (downloadable via the internet under www.turck.com)
Operating/ Load voltage U_B/U_L	18...30 VDC
Internal current consumption (via U_B)	< 70 mA
Input circuits	(n) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	< 120 mA per connector, short-circuit protected
Switching threshold OFF/ON	2 mA / 4 mA
Switching current limitation	6 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus
Output circuits	(16-n) DC-Aktuatoren
Output voltage (via U_L)	18...30 VDC
Output current	1.4 A per output, (ED = 35 %), short-circuit protection
Switching frequency	< 250 Hz
Galvanic isolation	to bus

I/O data mapping

C1P4	connector 1, pin 4, (0 = OFF, 1 = ON)
SC	common short-circuit indication (0 = OK, 1= fault)
SC3	short-circuit indication: channel 3
Con 2	overload sensor voltage: connector 2
U_B	$U_B < 18$ VDC
U_L	$U_L < 18$ VDC

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input 2)	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
Output 2)	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
Diagnosis 1)	Byte 0	–	–	–	–	–	U_B	U_L	SC
	Byte 1	SC 7	SC 6	SC 5	SC 4	SC 3	SC 2	SC 1	SC 0
	Byte 2	SC 15	SC 14	SC 13	SC 12	SC 11	SC 10	SC 9	SC 8
	Byte 3	Con 7	Con 6	Con 5	Con 4	Con 3	Con 2	Con 1	Con 0

1)The manufacturer-specific diagnostics can be fully mapped to the user data area via the configuration menu.

2) Each channel can be defined as a digital input (standard, inverted, diagnosis) or as an output via the configuration menu.

Configuration options

User data area	FXDP-IM8-0001	FXDP-IM16-0001	FXDP-OM8-0001	FXDP-OM16-0001	FXDP-OM88-0001	FXDP-CSG88-0001	FXDP-XSG16-0001	Configuration/comment
8 Bit IN	✓					✓	✓	I per connector
16 Bit IN		✓				✓	✓	I/I per connector
8 Bit OUT			✓			✓	✓	O per connector
16 Bit OUT				✓		✓	✓	O/O per connector
8 Bit IN, 8 Bit OUT				✓		✓	✓	I/I or O/O per connector
8 Bit IN, 8 Bit OUT					✓	✓	✓	I/O per connector
8 Bit IN, 8 Bit DIAG						✓	✓	I/DIAG ⁵⁾ per connector
8 Bit OUT, 8 Bit DIAG						✓	✓	O/DIAG ⁵⁾ per connector
12 Bit IN, 4 Bit OUT						✓	✓	I/I or O/O per connector
n Bit IN, 16-n Bit OUT (PROG Mode)						✓	✓	channel as IN, inverted IN, DIAG IN or OUT configurable
n Bit IN, 16-n Bit OUT (AUTO Mode)						✓	✓	outputs are read back
AddOn: DIAG mapped	✓	✓	✓	✓	✓	✓	✓	diagnostics reproduced in user data area

Wiring diagrams

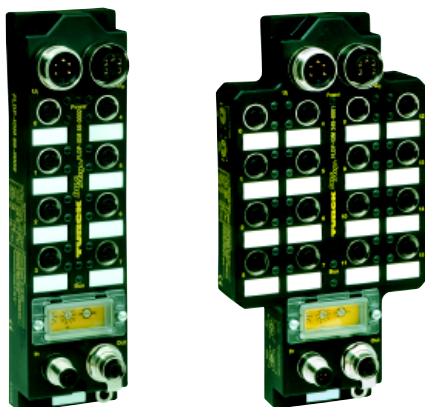
Inputs	Outputs	Inputs/outputs	Operating/load voltage	Bus ³⁾
3 wire pnp sensors M12 x 1 connectors	DC actuator M12 x 1 connectors	3 wire pnp sensor/ DC actuator M12 x 1 connectors	Male Female 7/8" connectors	Male Female M12 x 1 connectors

³⁾ Reverse-keyed according to PROFIBUS guidelines ⁴⁾ Female bus connector only ⁵⁾ Pin 2 is used for monitoring the sensor/actuator line. The inverted signal is read at pin 2. An non-actuated input creates the channel diagnosis "wire-break at pin 2 and pin 4" of the respective connection.



Compact fieldbus stations - Series FLDP

General information



The fieldbus stations, series FLDP, are designed for direct connection of up to 32 inputs/outputs to the PROFIBUS-DP. Glass-fibre reinforced flat plastic housings and the fully encapsulated module electronics guarantee protection degree IP67. Therefore these stations are particularly suited for use in harsh industrial environments.

The station supports transmission rates of up to 12 Mbps and adjusts automatically to the transmission speed determined by

the master. The PROFIBUS-DP address is adjusted via two coded rotary switches in a range of 1...99. The switches are located under a transparent protective cover.

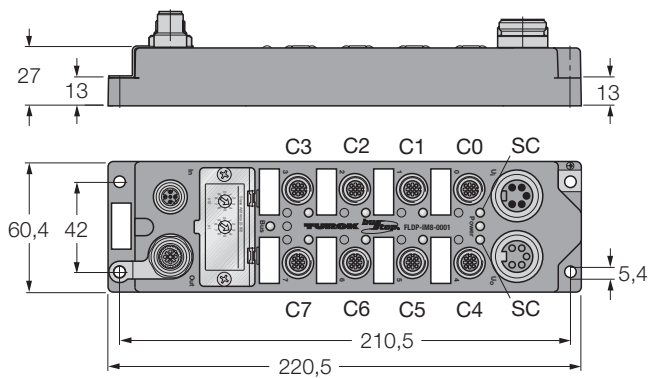
Operating and load voltage are fed separately to the device, so that the load voltage U_L can be disabled individually. Thus it is ensured that the module electronics and all inputs continue operation when the outputs are turned off. The third rotary switch is used to disable the load voltage diagnostics.

General technical data

Characteristics	load voltage diagnostics can be disabled via rotary switch, common short-circuit indication
Adjustments	
PROFIBUS-DP address	1...99 (decimal) adjustable via two coded rotary switches
Load voltage diagnostics	can be disabled via coded rotary switch (modules with digital outputs only)
Transmission rate	9.6 kbps up to 12 Mbps, automatic
LED indications	
- Bus (dual colour LED)	green: communication, red: no communication
- Power (dual colour LED)	green: operational, OFF: $U_B < 18$ VDC red: $U_L < 18$ V (modules with digital outputs only)
- Inputs	green: ON
- Outputs	green: ON
- Common short-circuit indication	red: short-circuit at one input
Connections	
PROFIBUS	nickel-plated brass connectors M12 x 1 connectors, reverse-keyed
Power supply	7/8" connector, 5-pole
Inputs/outputs	female M12 x 1 connectors; 5-pole
- FLDP-IOM2012-0001 only:	2 x 19-pole Burndy connectors
Housing material	
Mounting	PA6-GF30, glass-fibre reinforced plastic housing with encapsulated electronics and nickel-plated connectors
Degree of protection (IEC 60529/EN 60529)	via 4 through-holes, $\varnothing 5.4$ mm IP67 (NEMA 1, 3, 4, 12, 13)
Vibration and shock testing	according to EN 60068-2-6, 2-27
Temperature range	0 °C to +55 °C (+32 °F to +131 °F)
Dimensions	
- Modules with 8, 12 and 16 channels	220.5 x 62.4 x 27 (H x W x D)
- Modules with 32 channels	220.5 x 115 x 27 (H x W x D)

PROFIBUS-DP

Compact fieldbus station FLDP-IM8-0001
8 inputs



- 8 x 1 inputs
- Common short-circuit indication of inputs
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 24

2

Type	FLDP-IM8-0001
Ident-no.	6825320
Configuration file	TRCKFF10.gsd (downloadable via the internet under www.turck.com)
Operating voltage U_B	18...30 VDC
Internal current consumption (via U_B)	< 110 mA
Input circuits	(8) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	< 500 mA per 4 inputs, short-circuit protected
Switching threshold OFF/ON	2 mA / 4 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

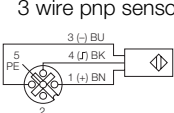
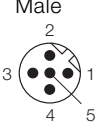
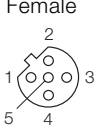
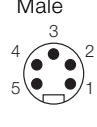
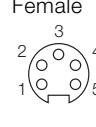
C1P4 connector 1, pin 4,
(0 = OFF, 1 = ON)

SC common short-circuit indication
of the inputs, $I > 500$ mA
(0 = OK, 1= fault)

U_B $U_B < 18$ VDC

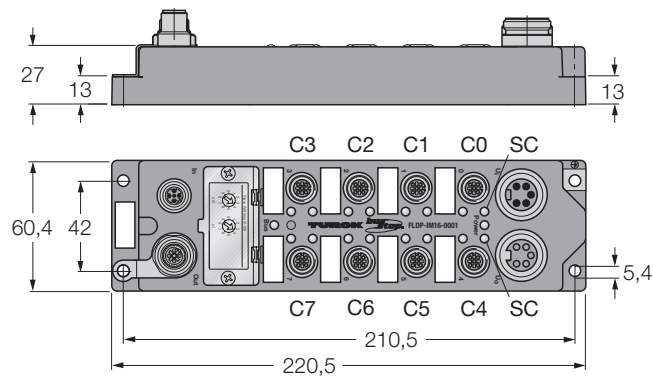
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
Diagnosis	Byte 0	–	–	–	–	–	U_B	–	SC

Wiring diagrams

Inputs	Bus line ¹⁾	Operating voltage
3 wire pnp sensors  M12 x 1 connectors	Male  Female  1 = 5 VDC²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield M12 x 1 connectors	Male  Female  1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L 7/8" connectors

1) Reverse-keyed according to PNO guidelines 2) Female bus connector only

Compact fieldbus station FLDP-IM16-0001
 16 inputs



- 8 x 2 inputs
 - Common short-circuit indication of inputs
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- **General information:**
 see page 24

Type	FLDP-IM16-0001
Ident-no.	6825326
Configuration file	TRCKFF12.gsd (downloadable via the internet under www.turck.com)
Operating voltage U_B	18...30 VDC
Internal current consumption (via U_B)	< 110 mA
Input circuits	(16) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	< 500 mA per 8 inputs, short-circuit protected
Switching threshold OFF/ON	2 mA / 4 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus

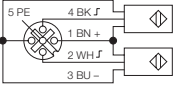
I/O data mapping

Abbreviations:

- C1P4 connector 1, pin 4,
(0 = OFF, 1 = ON)
- SC common short-circuit indication
of the inputs, $I > 500\text{ mA}$
(0 = OK, 1 = fault)
- U_B $U_B < 18\text{ VDC}$

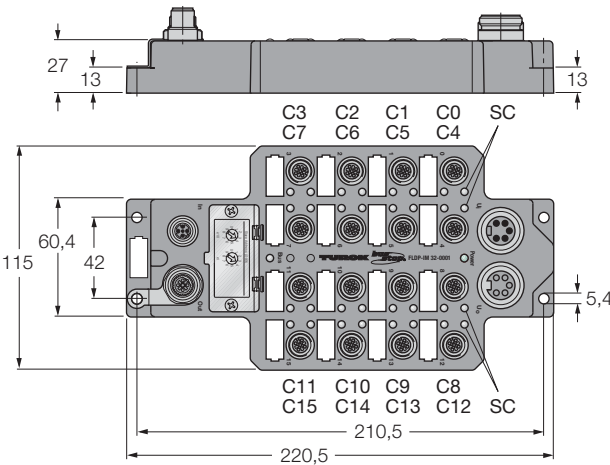
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
Diagnosis	Byte 0	–	–	–	–	–	U_B	–	SC

Wiring diagrams

Inputs	Bus line ¹⁾	Operating voltage
3 wire pnp sensors  M12 x 1 connectors	Male  Female  1 = 5 VDC ²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield M12 x 1 connectors	Male  Female  1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L 7/8" connectors

1) Reverse-keyed according to PNO guidelines 2) Female bus connector only

Compact fieldbus station FLDP-IM32-0001
32 inputs



- 16 x 2 inputs
- Common short-circuit indication of inputs
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 24

2

Type	FLDP-IM32-0001
Ident-no.	6825332
Configuration file	TRCKFF16.gsd (downloadable via the internet under www.turck.com)
Operating voltage U_B	18...30 VDC
Internal current consumption (via U_B)	< 110 mA (from operating voltage)
Input circuits	(32) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	< 500 mA per 8 inputs, short-circuit protected
Switching threshold OFF/ON	2 mA / 4 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

- C1P4 connector 1, pin 4,
(0 = OFF, 1 = ON)
- SC common short-circuit indication
of the inputs, $I > 500$ mA
(0 = OK, 1 = fault)
- U_B $U_B < 18$ VDC

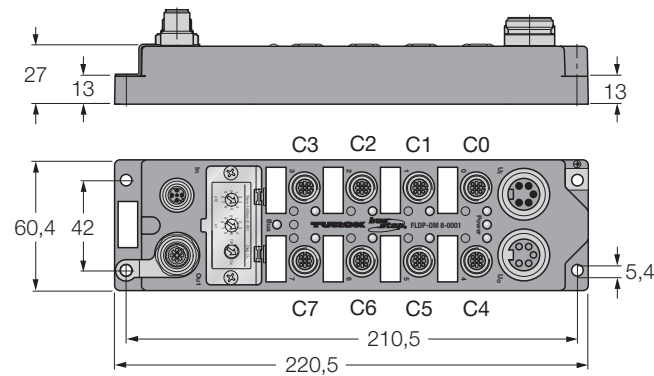
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
	Byte 2	C11P2	C11P4	C10P2	C10P4	C9P2	C9P4	C8P2	C8P4
	Byte 3	C15P2	C15P4	C14P2	C14P4	C13P2	C13P4	C12P2	C12P4
Diagnosis	Byte 0	–	–	–	–	–	U_B	–	SC

Wiring diagrams

Inputs	Bus line ¹⁾	Operating voltage
3 wire pnp sensors M12 x 1 connectors	Male Female 1 = 5 VDC²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield M12 x 1 connectors	Male Female 1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L 7/8" connectors

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only

Compact fieldbus station FLDP-OM8-0001
8 outputs



- 8 x 1 outputs (max. 0,5 A per output)
- Load voltage diagnostics can be disabled via coded rotary switches
- Fully encapsulated plastic housing
- Degree of protection IP67
- **General information:** see page 24

Type	FLDP-OM8-0001
Ident-no.	6825321
Configuration file	TRCKFF11.gsd (downloadable via the internet under www.turck.com)
Operating/Load voltage U_B/U_L	18...30 VDC
Internal current consumption (via U_B)	< 150 mA
Output circuits	(8) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 250 Hz
Galvanic isolation	to bus

I/O data mapping

Abbreviations:

- C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)
- U_L U_L < 18 VDC
- U_B U_B < 18 VDC

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Output	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
Diagnosis	Byte 0	-	-	-	-	-	U_B	U_L	-

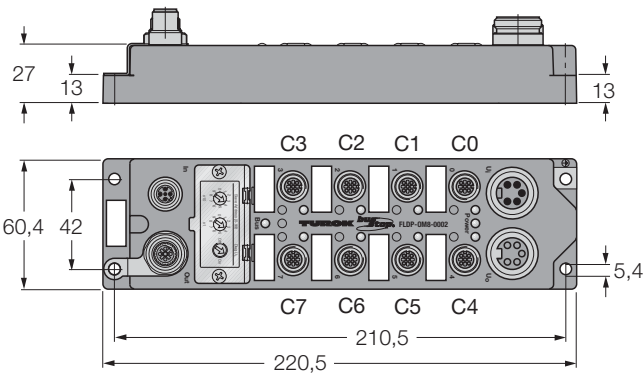
Wiring diagrams

Outputs	Bus line ¹⁾	Operating/load voltage
DC actuator M12 x 1 connectors	Male Female 1 = 5 VDC²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield M12 x 1 connectors	Male Female 1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L 7/8" connectors

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only

PROFIBUS-DP

Compact fieldbus station FLDP-OM8-0002
8 outputs



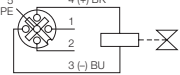
- 8 x 1 outputs (max. 2 A per output)
- Load voltage diagnostics can be disabled via coded rotary switches
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 24

2

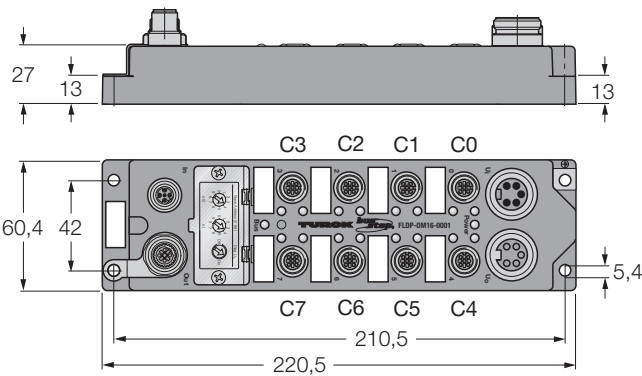
Type	FLDP-OM8-0002																														
Ident-no.	6825331																														
Configuration file	TRCKFF1A.gsd (downloadable via the internet under www.turck.com)																														
Operating/Load voltage U_B/U_L	18...30 VDC																														
Internal current consumption (via U_B)	< 150 mA																														
Output circuits	(8) DC actuators																														
Output voltage (via U_L)	18...30 VDC																														
Output current	2 A per output, 50 % ED, short-circuit protection																														
Switching frequency	< 250 Hz																														
Galvanic isolation	to bus																														
I/O data mapping																															
Abbreviations:																															
C1P4 connector 1, pin 4																															
(0 = OFF, 1 = ON)																															
U_L U_L < 18 VDC																															
U_B U_B < 18 VDC																															
	<table><tr><th></th><th></th><th>Bit 7</th><th>Bit 6</th><th>Bit 5</th><th>Bit 4</th><th>Bit 3</th><th>Bit 2</th><th>Bit 1</th><th>Bit 0</th></tr><tr><td>Output</td><td>Byte 0</td><td>C7P4</td><td>C6P4</td><td>C5P4</td><td>C4P4</td><td>C3P4</td><td>C2P4</td><td>C1P4</td><td>C0P4</td></tr><tr><td>Diagnosis</td><td>Byte 0</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>U_B</td><td>U_L</td><td>–</td></tr></table>			Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Output	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4	Diagnosis	Byte 0	–	–	–	–	–	U_B	U_L	–
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0																						
Output	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4																						
Diagnosis	Byte 0	–	–	–	–	–	U_B	U_L	–																						

Wiring diagrams

Outputs	Bus line ¹⁾	Operating/load voltage
DC actuator  M12 x 1 connectors	Male  M12 x 1 connectors Female  1 = 5 VDC ²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield	Male  7/8" connectors Female  1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L

1) Reverse-keyed according to PNO guidelines 2) Female bus connector only

Compact fieldbus station FLDP-OM16-0001
16 outputs



- 8 x 2 outputs
(max. 0.5 A per output)
- Load voltage diagnostics can be disabled via coded rotary switches
- Fully encapsulated plastic housing
- Degree of protection IP67
- **General information:**
see page 24

Type	FLDP-OM16-0001
Ident-no.	6825327
Configuration file	TRCKFF13.gsd (downloadable via the internet under www.turck.com)
Operating/Load voltage U_B/U_L	18...30 VDC
Internal current consumption (via U_B)	< 150 mA
Output circuits	(16) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 250 Hz
Galvanic isolation	to bus

I/O data mapping

Abbreviations:

C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)

U_L U_L < 18 VDC

U_B U_B < 18 VDC

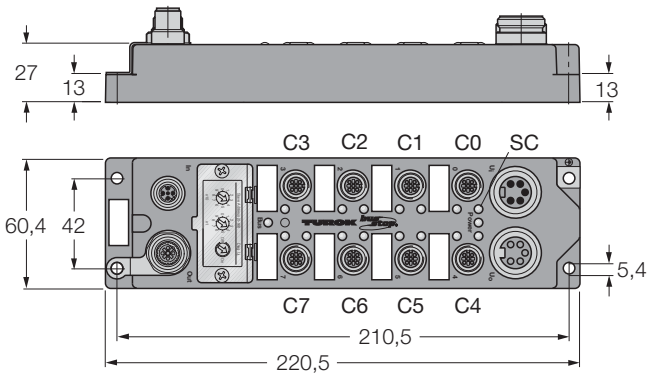
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Output	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
Diagnosis	Byte 0	-	-	-	-	-	U_B	U_L	-

Wiring diagrams

Outputs	Bus line ¹⁾	Operating/load voltage
DC actuator M12 x 1 connectors	Male Female 1 = 5 VDC²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield	Male Female 1 = GND 2 = GND 3 = PE 4 = U_L 5 = U_L

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only

Compact fieldbus station FLDP-IOM88-0001
8 inputs/8 outputs



- 8 x 1 inputs/
8 x 1 outputs
(max. 0.5 A per output)
 - Common short-circuit indication of inputs
 - Load voltage diagnostics can be disabled via coded rotary switches
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- **General information:**
see page 24

2

Type	FLDP-IOM88-0001
Ident-no.	6825322
Configuration file	TRCKFF14.gsd (downloadable via the internet under www.turck.com)
Operating/Load voltage U_B/U_L	18...30 VDC
Internal current consumption (via U_B)	< 150 mA
Input circuits	(8) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	< 500 mA per 4 inputs, short-circuit protected
Switching threshold OFF/ON	2 mA / 4 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus
Output circuits	(8) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 250 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

- C1P4 connector 1, pin 4,
(0 = OFF, 1 = ON)
- SC common short-circuit indication
of the inputs, $I > 500$ mA
(0 = OK, 1 = fault)
- U_L $U_L < 18$ VDC
- U_B $U_B < 18$ VDC

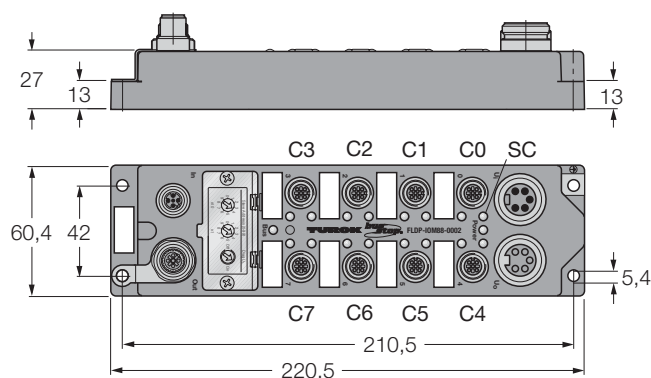
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
Output	Byte 0	C7P2	C6P2	C5P2	C4P2	C3P2	C2P2	C1P2	C0P2
Diagnosis	Byte 0	–	–	–	–	–	U_B	U_L	SC

Wiring diagrams

Inputs/outputs	Bus line ¹⁾	Operating/load voltage
3 wire pnp sensors/DC actuator M12 x 1 connectors	Male Female M12 x 1 connectors 1 = 5 VDC ²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield	Male Female 7/8" connectors 1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only

Compact fieldbus station FLDP-IOM88-0002



- 4 x 2 inputs/
4 x 2 outputs
(max. 0.5 A per output)
(inputs on left connector,
outputs on right connector)
- Common short-circuit indication of
inputs
- Load voltage diagnostics can be
disabled via coded rotary switches
- Fully encapsulated plastic housing
- Degree of protection IP67

- **General information:**
see page 24

Type	FLDP-IOM88-0002
Ident-no.	6825323
Configuration file	TRCKFF15.qsd (downloadable via the internet under www.turck.com)

Operating/Load voltage U_B/U_L	18...30 VDC
Internal current consumption (via U_B)	< 150 mA

Input circuits	(8) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	< 500 mA per 8 inputs, short-circuit protected
Switching threshold OFF/ON	2 mA / 4 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus

Output circuits	(8) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 250 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

C1P4 connector 1, pin 4,
(0 = OFF, 1 = ON)

SC common short-circuit indication
of the inputs, $I > 500 \text{ mA}$
(0 = OK, 1 = fault)

$$U_1 \quad U_1 < 18 \text{ VDC}$$
$$U_B < 18 \text{ VDC}$$

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
Output	Byte 0	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
Diagnosis	Byte 0	–	–	–	–	–	UB	UL	SC

Wiring diagrams

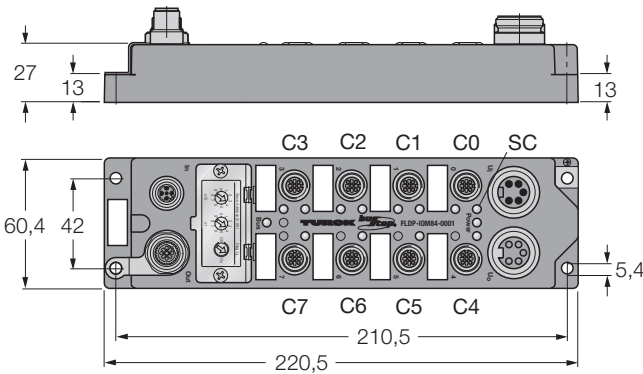
Inputs	Outputs	Bus line ¹⁾	Operating/load voltage
3 wire pnp sensor M12 x 1 connectors	DC actuator M12 x 1 connectors	Male Female 1 = 5 VDC²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield M12 x 1 connectors	Male Female 1 = GND 2 = Bus-A 3 = PE 4 = U_a 5 = U_L 7/8" connectors

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only

PROFIBUS-DP

Compact fieldbus station FLDP-IOM84-0001

8 inputs/4 outputs



- 4 x 2 inputs/
4 x 1 outputs
(max. 2 A per output)
(inputs on left connector,
outputs on right connector)
 - Common short-circuit indication of
inputs
 - Load voltage diagnostics can be
disabled via coded rotary switches
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- General information:**
see page 24

Type	FLDP-IOM84-0001
Ident-no.	6825330
Configuration file	TRCKFF1B.gsd (downloadable via the internet under www.turck.com)
Operating/load voltage U_B/U_L	18...30 VDC
Internal current consumption (via U_B)	< 150 mA
Input circuits	(8) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	< 500 mA per 8 inputs, short-circuit protected
Switching threshold OFF/ON	2 mA / 4 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus
Output circuits	(4) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	2 A per output, short-circuit protection
Switching frequency	< 250 Hz
Potential isolation	to bus

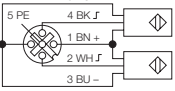
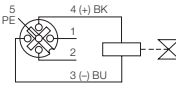
I/O data mapping

Abbreviations:

- C1P4 connector 1, pin 4,
(0 = OFF, 1 = ON)
- SC common short-circuit indication
of the inputs, $I > 500$ mA
(0 = OK, 1 = fault)
- U_L $U_L < 18$ VDC
- U_B $U_B < 18$ VDC

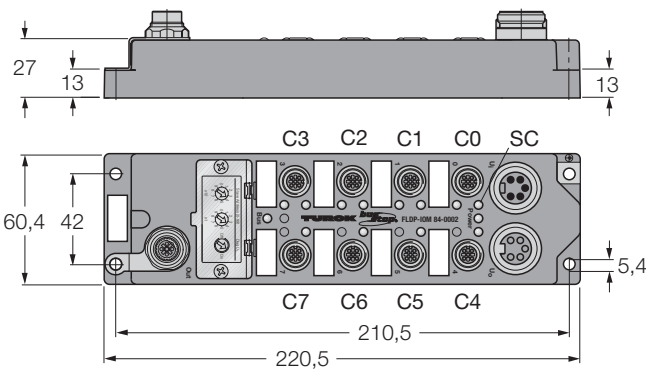
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
Output	Byte 0	–	C7P4	–	C6P4	–	C5P4	–	C4P4
Diagnosis	Byte 0	–	–	–	–	–	U_B	U_L	SC

Wiring diagrams

Inputs	Outputs	Bus line ¹⁾	Operating/load voltage
3 wire pnp sensor  M12 x 1 connectors	DC actuator  M12 x 1 connectors	Male  M12 x 1 connectors	Male  7/8" connectors

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only

Compact fieldbus station FLDP-IOM84-0002
8 inputs/4 outputs



- 4 x 2 inputs/
4 x 1 outputs
(max. 2 A per output)
(inputs on left connector,
outputs on right connector)
 - Common short-circuit indication of
inputs
 - Load voltage diagnostics can be
disabled via coded rotary switches
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- **General information:**
see page 24

Type	FLDP-IOM84-0002
Ident-no.	6825342
Configuration file	TRCKFF1B.gsd (downloadable via the internet under www.turck.com)
Operating/load voltage U_B/U_L	18...30 VDC
Internal current consumption (via U_B)	< 150 mA
Input circuits	(8) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	< 500 mA per 8 inputs, short-circuit protected
Switching threshold OFF/ON	2 mA / 4 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus
Output circuits	(4) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	2 A per output, short-circuit protection
Switching frequency	< 250 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

- C1P4 connector 1, pin 4,
(0 = OFF, 1 = ON)
- SC common short-circuit indication
of the inputs, $I > 500$ mA
(0 = OK, 1 = fault)
- U_L $U_L < 18$ VDC
- U_B $U_B < 18$ VDC

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
Output	Byte 0	–	C7P4	–	C6P4	–	C5P4	–	C4P4
Diagnosis	Byte 0	–	–	–	–	–	U_B	U_L	SC

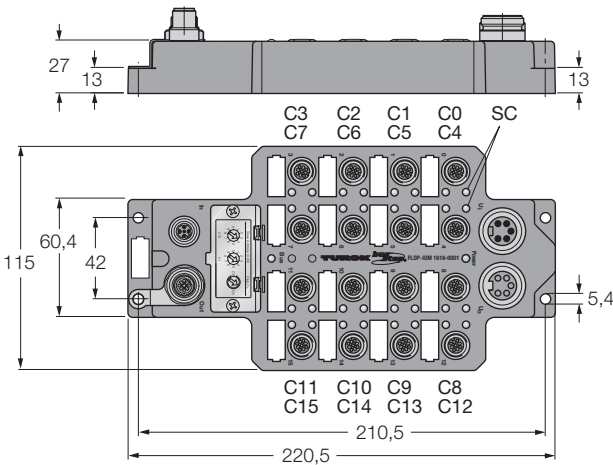
Wiring diagrams

Inputs	Outputs	Bus line ¹⁾	Operating/load voltage
3 wire pnp sensor 	DC actuator 	Female 	Male

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only

PROFIBUS-DP

Compact fieldbus station FLDP-IOM1616-0001
16 inputs/16 outputs



- 8 x 2 inputs/
8 x 2 outputs
(max. 0.5 A per output)
(inputs on left connector,
outputs on right connector)
 - Common short-circuit indication of
inputs
 - Load voltage diagnostics can be
disabled via coded rotary switches
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- General information:**
see page 24

2

Type	FLDP-IOM1616-0001
Ident-no.	6825338
Configuration file	TRCKFF18.gsd (downloadable via the internet under www.turck.com)
Operating/load voltage U_B/U_L	18...30 VDC
Internal current consumption (via U_B)	< 150 mA
Input circuits	(16) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	< 500 mA per 8 inputs, short-circuit protected
Switching threshold OFF/ON	2 mA / 4 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus
Output circuits	(16) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 250 Hz
Potential isolation	to bus

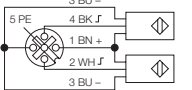
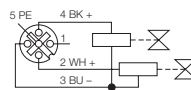
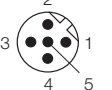
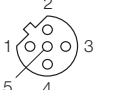
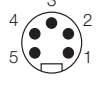
I/O data mapping

Abbreviations:

- C1P4 connector 1, pin 4,
(0 = OFF, 1 = ON)
- SC common short-circuit indication
of the inputs, I > 500 mA
(0 = OK, 1= fault)
- U_L U_L < 18 VDC
- U_B U_B < 18 VDC

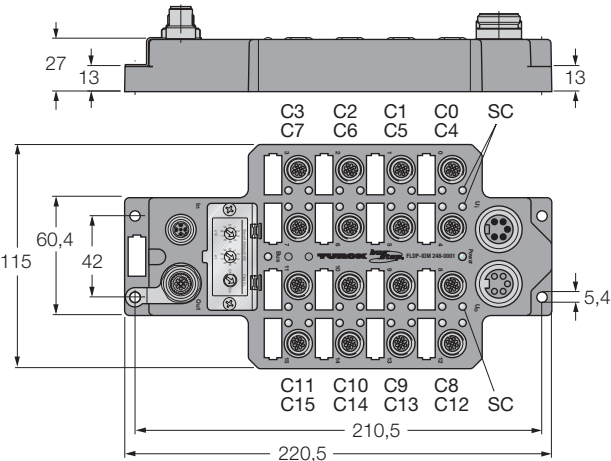
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
Output	Byte 0	C11P2	C11P4	C10P2	C10P4	C9P2	C9P4	C8P2	C8P4
	Byte 1	C15P2	C15P4	C14P2	C14P4	C13P2	C13P4	C12P2	C12P4
Diagnosis	Byte 0	–	–	–	–	–	U_B	U_L	SC

Wiring diagrams

Inputs	Outputs	Bus line ¹⁾	Operating/load voltage
3 wire pnp sensor  M12 x 1 connectors	DC actuator  M12 x 1 connectors	Male  M12 x 1 connectors 1 = 5 VDC²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield Female  M12 x 1 connectors	Male  7/8" connectors 1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L Female  7/8" connectors

1) Reverse-keyed according to PNO guidelines 2) Female bus connector only

Compact fieldbus station FLDP-IOM 248-0001
 24 inputs/8 outputs



- 12 x 2 inputs/
4 x 2 outputs
(max. 0.5 A per output)
(inputs on left connector,
outputs on right connector)
- Common short-circuit indication of
inputs
- Load voltage diagnostics can be
disabled via coded rotary switches
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
 see page 24

Type	FLDP-IOM248-0001
Ident-no.	6825333
Configuration file	TRCKFF17.gsd (downloadable via the internet under www.turck.com)
Operating/load voltage U_B/U_L	18...30 VDC
Internal current consumption (via U_B)	< 150 mA
Input circuits	(24) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	< 500 mA per 8 inputs, short-circuit protected
Switching threshold OFF/ON	2 mA / 4 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus
Output circuits	(8) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 250 Hz
Potential isolation	to bus

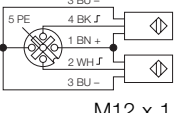
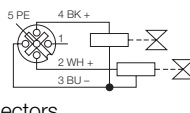
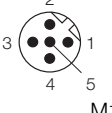
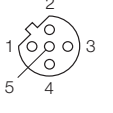
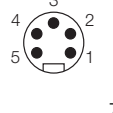
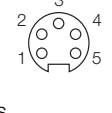
I/O data mapping

Abbreviations:

- C1P4 connector 1, pin 4,
(0 = OFF, 1 = ON)
- SC common short-circuit indication
of the inputs, $I > 500$ mA
(0 = OK, 1 = fault)
- U_L $U_L < 18$ VDC
- U_B $U_B < 18$ VDC

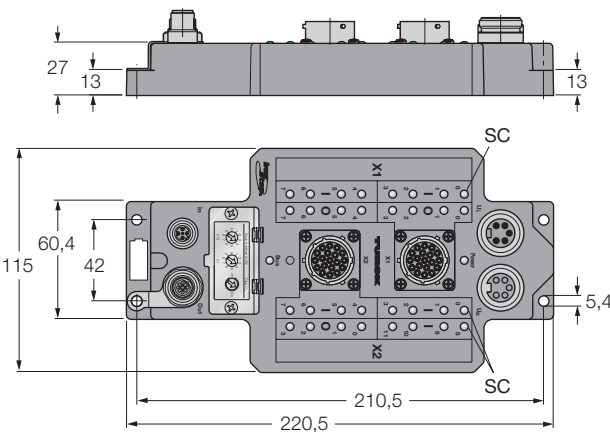
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
	Byte 2	C11P2	C11P4	C10P2	C10P4	C9P2	C9P4	C8P2	C8P4
Output	Byte 0	C15P2	C15P4	C14P2	C14P4	C13P2	C13P4	C12P2	C12P4
Diagnosis	Byte 0	–	–	–	–	–	U_B	U_L	SC

Wiring diagrams

Inputs	Outputs	Bus line ¹⁾	Operating/load voltage
3 wire pnp sensor 	DC actuator 	Male  Female  1 = 5 VDC ²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield	Male  Female  1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L

1) Reverse-keyed according to PNO guidelines 2) Female bus connector only

Compact fieldbus station FLDP-IOM2012-0001
20 inputs/12 outputs



- 20 inputs/
12 outputs
(max. 0.5 A per output)
 - Common short-circuit indication of inputs
 - Load voltage diagnostics can be disabled via coded rotary switches
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- General information:**
see page 24
- Further information:**
see page 38

2

Type	FLDP-IOM2012-0001
Ident-no.	6825339
Operating / Load voltage U_B/U_L	18...30 VDC
Internal current consumption	< 150 mA
Input circuits	(20) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	< 500 mA per 8/12 inputs, short-circuit protected
Switching threshold OFF/ON	2 mA / 4 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus
Output circuits	(12) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 250 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations/Designations:

X1I7, X1I6, ... (see table on next page)

SC common short-circuit indication of the inputs, $I > 500$ mA
(0 = OK, 1 = fault)

U_L $U_L < 18$ VDC

U_B $U_B < 18$ VDC

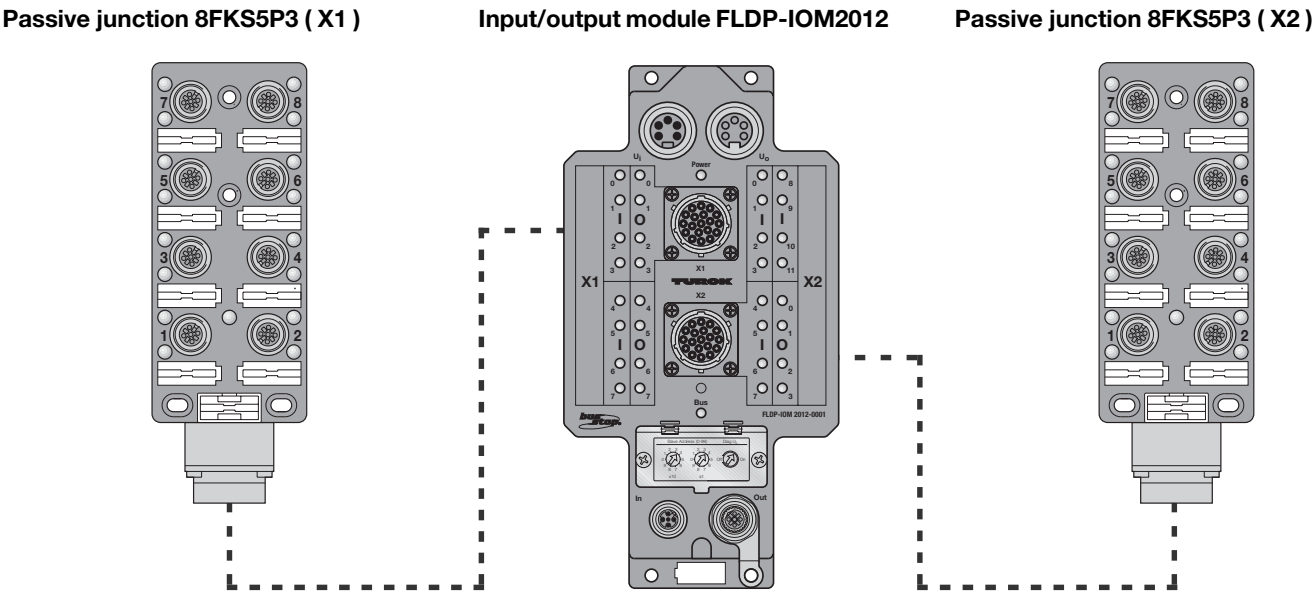
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	X1I7	X1I6	X1I5	X1I4	X1I3	X1I2	X1I1	X1I0
	Byte 1	X2I7	X2I6	X2I5	X2I4	X2I3	X2I2	X2I1	X2I0
	Byte 2	–	–	–	–	X2I11	X2I10	X2I9	X2I8
Output	Byte 0	X1O7	X1O6	X1O5	X1O4	X1O3	X1O2	X1O1	X1O0
	Byte 1	–	–	–	–	X2O3	X2O2	X2O1	X2O0
Diagnosis	Byte 0	–	–	–	–	–	U_B	U_L	SC

Wiring diagrams

Burndy connector	Bus line ¹⁾	Operating/load voltage
 Female Burndy connector	Male Female M12 x 1 connectors 1 = 5 VDC²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield	Male Female 7/8" connectors 1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only

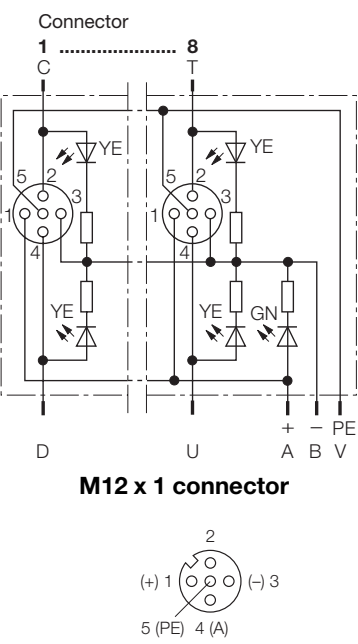
Connection of input/output module FLDP-IOM2012 – junction 8FKS5P3



Connection: input/output module FLDP-IOM2012 – junction 8FKS5P3

Burndy	FLDP-IOM2012		8FKS5P3		Input/output bytes	
	X1	X2	X1	X2	X1	X2
A	+	+	+	+		
B	-	-	-	-		
S	I0	I0	S7/4	S7/4	I0.0	I1.0
R	I1	I1	S7/2	S7/2	I0.1	I1.1
M	I2	I2	S5/4	S5/4	I0.2	I1.2
L	I3	I3	S5/2	S5/2	I0.3	I1.3
H	I4	I4	S3/4	S3/4	I0.4	I1.4
G	I5	I5	S3/2	S3/2	I0.5	I1.5
D	I6	I6	S1/4	S1/4	I0.6	I1.6
C	I7	I7	S1/2	S1/2	I0.7	I1.7
U	O0	I8	S8/4	S8/4	O0.0	I2.0
T	O1	I9	S8/2	S8/2	O0.1	I2.1
P	O2	I10	S6/4	S6/4	O0.2	I2.2
N	O3	I11	S6/2	S6/2	O0.3	I2.3
K	O4	O0	S4/4	S4/4	O0.4	O1.0
J	O5	O1	S4/2	S4/2	O0.5	O1.1
F	O6	O2	S2/4	S2/4	O0.6	O1.2
E	O7	O3	S2/2	S2/2	O0.7	O1.3
V	PE	PE	PE	PE		

Block diagram/Pin configuraton
Passive junction module 8FKS5P3





Compact fieldbus stations for PROFIsafe - Series FSDP

General information



The fieldbus stations, series FSDP, allow direct connection to the PROFIBUS-DP. The station is designed for connection of SIL 2/3 parameterisable inputs and for safe control of outputs. SIL 2/SIL 3 (i.e. Safety Integrated Level) is a classification according to IEC/EN 61508, which defines the communication safety level and specifies that the devices connected via the PROFIBUS communicate so safely, that they are suited for safety-related applications.

Glass-fibre reinforced flat plastic housings and the fully encapsulated module electronics guarantee protection degree IP67.

Therefore these stations are particularly suited for use in harsh industrial environments.

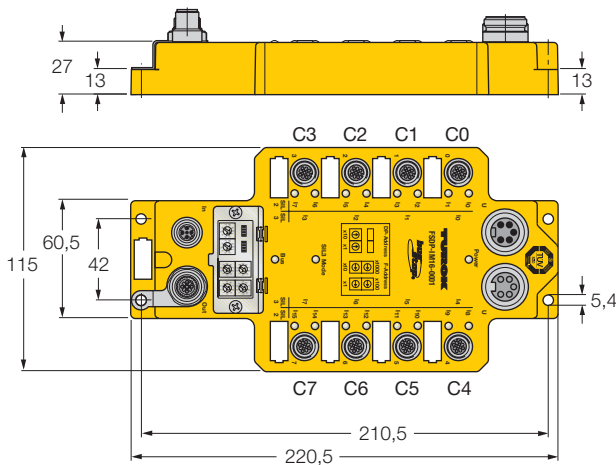
The station with the „PROFIsafe“ telegram supports transmission rates of up to 12 Mbps and adjusts automatically to the transmission speed determined by the master.

The station's address is set between 1... 99 via two coded rotary switches. The switches are located under a transparent protective cover. The F address, which is required by the system, is set via four rotary switches (1...9999).

General technical data

Characteristics	areas of application: safety-related systems; e. g.: emergency stop buttons, door limit switches
Adjustments	
PROFIBUS-DP address	1...99 (decimal) adjustable via two rotary switches
F address	1...9999 adjustable via 4 coded rotary switches, accessible under protective cover
Transmission rate	9.6 kbps up to 12 Mbps, automatic
LED indications	
Bus (dual colour LED)	green: communication, red: no communication, red flashing: shutdown after error
Power	green: operational, OFF: supply voltage outside admissible range
SIL 3 mode	green: module has been parameterised for SIL 3; OFF: module has been parameterised for SIL 2.
	green flashing: module parameterisation not yet concluded or F functions of module not active
Inputs	green: ON
Outputs	green: ON
Connections	
PROFIBUS	1 x male M12 connector (IN), 1 x female M12 connector (OUT), 5-pole, reverse-keyed
Power supply	1 x 7/8" male connector (IN), 1 x 7/8" female connector (OUT), 5-pole
Inputs/outputs	8 x M12 x 1 connectors
Housing	
Mounting	PA6-GF30, glass-fibre reinforced plastic housing with encapsulated electronics and nickel-plated brass connectors
Degree of protection (IEC 60529/EN 60529)	via 4 through-holes, Ø 5,4mm
Vibration and shock testing	IP67 (NEMA 1, 3, 4, 12, 13)
Temperature range	according to EN 60068-2-6/2-27
Dimensions	-25 °C to +55 °C (-13 °F to +131 °F)
	220.5 x 115 x 27 (H x W x D)

Compact fieldbus station FSDP-IM16-0001
16 inputs



- 16 inputs SIL 2/
8 inputs SIL 3
- Failsafe PROFIsafe station
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 40

2

Type	FSDP-IM16-0001
Ident-no.	6825360
Configuration file	TRCKFF33.gsd (downloadable via the internet under www.turck.com)
Operating voltage U_B	20...28 VDC
Internal current consumption (via U_B)	< 200 mA
Input circuits	(16) mechanical contacts SIL 2, operating in the normally closed mode (8) mechanical contacts SIL 3, operating in the normally closed mode
Input voltage	24 VDC
Input current	< 10 mA, short-circuit protection
Switching threshold OFF/ON	2 mA / 8 mA
Switching frequency	10 Hz
Galvanic isolation	to bus
Approvals	IEC/EN 61508-SIL 3 EN 954-1, CAT 4 TÜV certificate no. Z10040653279001

I/O data mapping

Abbreviations/Designations:

SIL 3

C0 connector 0

(0 = OFF, 1 = ON)

Note: SIL 3 requires per channel
pin 2 and pin 4

SIL 2

C1P4 connector 1, pin 4

(0 = OFF, 1 = ON)

SIL 3		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C7	C6	C5	C4	C3	C2	C1	C0
	Byte 1	–	–	–	–	–	–	–	–
SIL 2		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4

Further data including diagnostics details are contained in our manual
"IP67 modules for safety-related application" D300772.

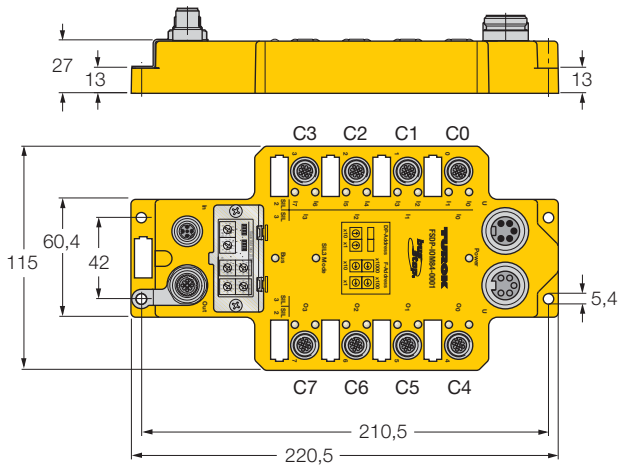
Wiring diagrams

Inputs	Bus line ¹⁾	Operating voltage
Mechanical contacts	Male Female M12 x 1 connectors 1 = 5 VDC²⁾ 2 = Bus-A 3 = GND 4 = Bus-B 5 = shield	Male Female 7/8" connectors 1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only

Compact fieldbus station FSDP-IOM84-0001

8 inputs/4 outputs



- 8 inputs SIL2/
4 inputs SIL 3/
4 outputs (max. 2 A per output)
- Failsafe PROFIsafe station
- Fully encapsulated plastic housing
- Degree of protection IP67

- **General information:**
see page 39

Type	FSDP-IOM84-0001
Ident-no.	6825361
Configuration file	TRCKFF31.gsd (downloadable via the internet under www.turck.com)

Operating voltage U_B/U_L	20...28 VDC
Internal current consumption (via U_B)	< 200 mA

Input circuits	(8) mechanical contacts SIL 2, operating in the normally closed mode (4) mechanical contacts SIL 3, operating in the normally closed mode
Input voltage	24 VDC
Input current	< 10 mA, short-circuit protection
Switching threshold OFF/ON	2 mA / 8 mA
Switching frequency	10 Hz
Galvanic isolation	to bus

Output circuits	(4) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	2 A per output, short-circuit protection
Switching frequency	50 Hz (with ohmic load)
Galvanic isolation	to bus

Approvals (pending)	IEC/EN 61508-SIL 3 EN 954-1, CAT 4
----------------------------	---------------------------------------

I/O data mapping

Abbreviations/Designations:

SIL3
C0 connector 0
(0 = OFF, 1 = ON)
Note: SIL3 requires per channel
pin 2 and pin 4

SIL2
C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)

SIL 3		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	–	–	–	–	C3	C2	C1	C0
Output	Byte 0	–	–	–	–	C7P4	C6P4	C5P4	C4P4
SIL 2		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
Output	Byte 0	–	–	–	–	C7P4	C6P4	C5P4	C4P4

Wiring diagrams

Inputs	Outputs	Bus line ¹⁾		Operating/load voltage	
Mechanical contacts	DC actuator	Male	Female	Male	Female
		M12 x 1 connectors		7/8" connectors	

¹⁾ Reverse-keyed according to PNO guidelines ²⁾ Female bus connector only



Compact fieldbus stations - device overview

Housing version 1



Series FDNL

Compact flat housing with up to 16 channels, common diagnostics (series SE) or channel diagnostics (series LX)

Housing version 2



Series FDNP

Compact flat housing with up to 16 channels, connection for actuator supply, common diagnostics (series SE) or channel diagnostics (series LX)

Type	Ident-no.	Housing version	Number of inputs	Number of outputs	Number of inputs/outputs per connector	nnp/pnp sensor connectable	Max. load current [A]	Power supply concept of outputs	Data sheets see page
FDN... stations LX series – channel diagnostics (separate short-circuit and wire-break diagnostics of inputs and outputs)									
FDNL-L0800-T	6603335	1	8	–	1/–	nnp/pnp	–	–	46
FDNL-L1600-T	6602335	1	16	–	2/–	nnp/pnp	–	–	47
FDNP-CPG88-TT	6603324	2	8	8	1/1	pnp	0.5	Aux	48
FDNP-L0404G-TT	6603327	2	4	4	1/1	nnp/pnp	0.5	Aux	49
FDNP-L0808G-TT	6602389	2	8	8	2/2	nnp/pnp	0.5	Aux	50
FDNP-P1204G-TT	6602672	2	12	4	2/2	pnp	0.5	Aux	51
FDNP-P0808H-TT	6603329	2	8	8	2/2	pnp	2	Aux	52
FDNP-L0808H-TT	6603328	2	8	8	2/2	nnp/pnp	2	Aux	53
FDN... stations SE series – channel diagnostics (common short-circuit diagnostics of inputs and outputs)									
FDNL-S0800-T	6603336	1	8	–	1/–	pnp	–	–	54
FDNL-N0800-T	6603671	1	8	–	1/–	nnp	–	–	55
FDNL-S1600-T	6603316	1	16	–	2/–	pnp	–	–	56
FDNL-N1600-T	6603672	1	16	–	2/–	nnp	–	–	57
FDNL-CSG88-T	6603351	1	8	8	1/1	pnp	0,5	bus	58
FDNP-S0404G-TT	6603331	2	4	4	1/1	pnp	0,5	Aux	59
FDNP-S0808G-TT	6603348	2	8	8	2/2	pnp	0,5	Aux	60
FDNP-XSG16-TT	6603323	2	16 configurable channels			pnp	0,5	Aux	61
FDNP-S0008G-TT	6603673	2	–	8	–/1	–	0,5	Aux	62
FDNP-S0008H-TT	6603674	2	–	8	–/1	–	1,4	Aux	63

Compact fieldbus stations - type code

F DN P - L 0404 G - T T

F = compact fieldbus
station, plastic

DN = DeviceNet™

P = 8 I/O connections/load voltage/
220 mm long
L = 8 I/O connections/197 mm long/

Load voltage connection:
T = 7/8", male and female

DeviceNet™ pin configuration:
T = 7/8" male and female

G = outputs 0.5 A
H = outputs 1.4 or 2.0 A

Number of inputs (first two figures)
Number of outputs (last two figures)

L = npn/pnp, channel-specific wire-break and short-circuit monitoring
P = pnp, channel-specific wire-break and short-circuit monitoring
S = pnp, common short-circuit indication of inputs
N = npn, common short-circuit indication
CPG = combined input/output per connector
XSG = parameterisable I/O range

3

Compact fieldbus stations - Series FDN...

General information



The fieldbus stations, series FDN, allow direct connection of up to 16 inputs/outputs to DeviceNet™.

Glass-fibre reinforced plastic housings and the fully encapsulated module electronics guarantee protection degree IP67. Therefore these stations are particularly suited for use in harsh industrial environments.

The stations support transmission rates of up to 500 kbps. The station's address and communication rate can be set either via hardware or software (DeviceNet™ configuration tool).

Hardware adjustments are established with rotary switches; but please note that a software or voltage reset is required to adopt the settings.

FDN type fieldbus stations support all DeviceNet™ communication modes, incl. "Poll", "Strobe", "Cyclic", "Change of State (COS)" and "UCMM".

The comprehensive diagnostic functions comprise individual or common short-circuit or wire-break indication; the deluxe version (LX) provides channel-specific short-circuit and wire-break diagnostics, whereas the standard version (SE) features common short-circuit diagnostics of the inputs and outputs.

General technical data

Characteristics

– Deluxe version (LX):	channel-specific short-circuit and wire-break diagnostics of inputs and outputs
– Standard version (SE):	common short-circuit diagnostics of inputs and outputs

Adjustments

DeviceNet™ address	0...63 (decimal) adjustable via two coded rotary switches
Transmission rate	automatic

LED indications

Inputs	green: ON
Outputs	green: ON
Errors (dual colour LED- deluxe version only)	yellow: wire-break, red: short-circuit
Module status (dual colour LED)	green: operational – green flashing: detection of the baud rate, red flashing: I/O short-circuit
Network status (dual colour LED)	green: communication, green flashing: ready to establish communication red: communication failed, red flashing: communication time-out

Connections

DeviceNet™	nickel-plated brass connectors
With FDNP stations: aux power	7/8" connector, 5-pole; IN and OUT
Inputs/outputs	7/8" connector, 4-pole; IN and OUT female M12 x 1 connectors; 5-pole

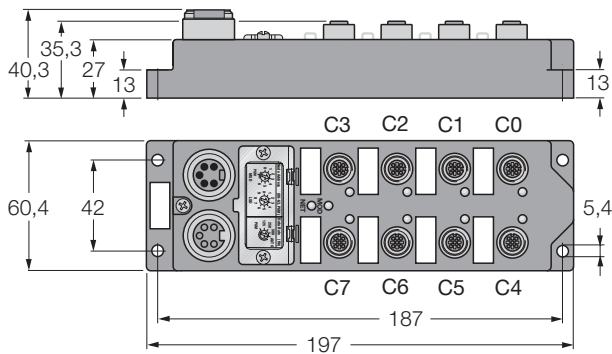
Housing

Mounting	PA6-GF30, glass-fibre reinforced plastic housing with encapsulated electronics and nickel-plated brass connectors
Degree of protection	via 4 through-holes, Ø 5,4mm
Temperature range	IP67 (NEMA 1, 3, 4, 12, 13)
– Deluxe version (LX)	-25 °C to +70 °C (-13 °F to +158 °F)
– Standard version (SE):	-40 °C to +70 °C (-40 °F to +158 °F)
Dimensions	
– FDNL stations	197 x 60 x 27 (H x W x D)
– FDNP stations	220 x 60 x 27 (H x W x D)

Approvals

CE, UL, CSA

Compact fieldbus station FDNL-L0800-T
16 inputs



- 8 x 1 inputs, npn/pnp
- Channel-specific diagnostics
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 46

Type	FDNL-L0800-T
Ident-no.	6603335
Operating voltage U_B	11...26 VDC
Internal current consumption (via U_B)	< 100 mA (plus the sum of sensor currents)

Input circuits	(8) 3-wire npn/pnp sensors or mechanical contacts
Input voltage (via U_B)	11...26 VDC
Input current	< 80 mA per input, short-circuit protected
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

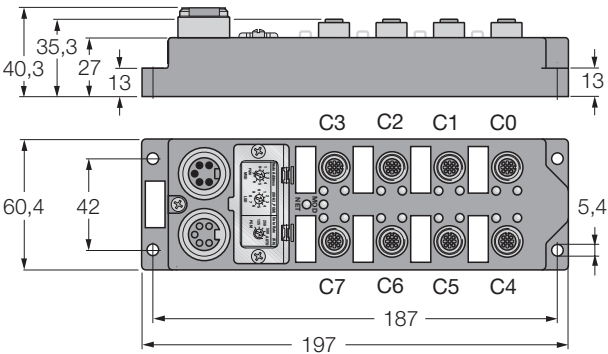
C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)
ISS input short-circuit status
IOS input wire-break status
(0 = OK, 1 = fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
	Byte 1	ISS-7	ISS-6	ISS-5	ISS-4	ISS-3	ISS-2	ISS-1	ISS-0
	Byte 2	IOS-7	IOS-6	IOS-5	IOS-4	IOS-3	IOS-2	IOS-1	IOS-0

Wiring diagrams

Inputs	Operating voltage/bus line	
3-wire npn/pnp sensor M12 x 1 connectors	Male 7/8" connectors	Female 7/8" connectors

Compact fieldbus station FDNL-L1600-T
16 inputs



- 8 x 2 inputs, npn/pnp
- Channel-specific diagnostics
- Fully encapsulated plastic housing
- Degree of protection IP67

- **General information:**
see page 46

Type	FDNL-L1600-T
Ident-no.	6602335
Operating voltage U_B	11...26 VDC
Internal current consumption (via U_B)	< 140 mA (plus the sum of sensor currents)
Input circuits	(16) 3-wire npn/pnp sensors or mechanical contacts
Input voltage (via U_B)	11...26 VDC
Input current	< 80 mA per input, short-circuit protected
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

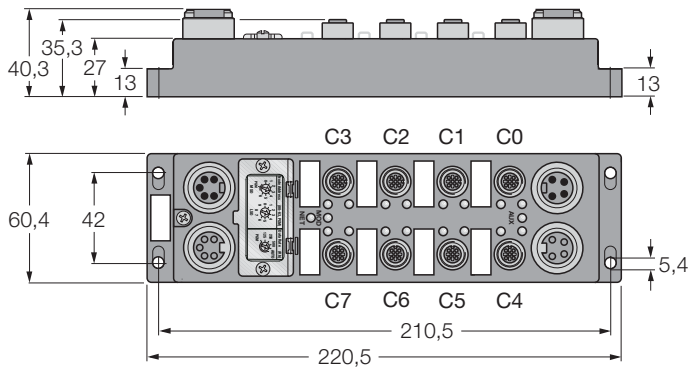
- C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)
- ISS input short-circuit status
- IOS input wire-break status
(0 = OK, 1 = fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
	Byte 2	ISS-7	ISS-6	ISS-5	ISS-4	ISS-3	ISS-2	ISS-1	ISS-0
	Byte 3	ISS-15	ISS-14	ISS-13	ISS-12	ISS-11	ISS-10	ISS-9	ISS-8
	Byte 4	IOS-7	IOS-6	IOS-5	IOS-4	IOS-3	IOS-2	IOS-1	IOS-0
	Byte 5	IOS-15	IOS-14	IOS-13	IOS-12	IOS-11	IOS-10	IOS-9	IOS-8

Wiring diagrams

Inputs	Operating voltage/bus line	
3-wire npn/pnp sensor M12 x 1 connectors	Male 7/8" connectors	Female 7/8" connectors

Compact fieldbus station FDNP-CPG88-TT 8 inputs/8 outputs



- 8 x 1 inputs, pnp
 - 8 x 1 outputs (max. 0.5 A per output)
 - Auxiliary power/load supply
 - Channel-specific diagnostics
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- **General information:**
see page 46

Type	FDNP-CPG88-TT
Ident-no.	6603324
Operating voltage U_B	11...26 VDC
Internal current consumption (via U_B)	< 140 mA (plus the sum of sensor currents)
Auxiliary power U_L	18...26 VDC
Input circuits	(8) 3-wire pnp sensors or mechanical contacts
Input voltage (via U_B)	11...26 VDC
Input current	< 120 mA per input, short-circuit protected
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus
Output circuits	(8) DC actuators
Output voltage (via U_L)	18...26 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 100 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

C1P4 connector 1, pin 4

APS auxiliary power status
(0 = OFF, 1 = ON)

ISS input short-circuit status

IOS input wire-break status

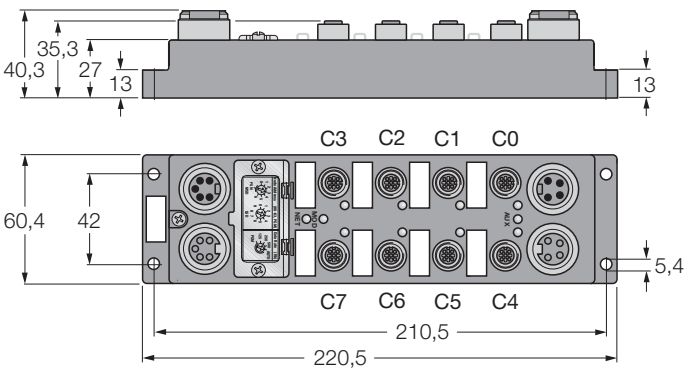
OS output status
(0 = OK, 1 = fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
	Byte 1	ISS-7	ISS-6	ISS-5	ISS-4	ISS-3	ISS-2	ISS-1	ISS-0
	Byte 2	IOS-7	IOS-6	IOS-5	IOS-4	IOS-3	IOS-2	IOS-1	IOS-0
	Byte 3	OS-7	OS-6	OS-5	OS-4	OS-3	OS-2	OS-1	OS-0
	Byte 4	–	APS	–	–	–	–	–	–
Output	Byte 0	C7P2	C6P2	C5P2	C4P2	C3P2	C2P2	C1P2	C0P2

Wiring diagrams

Inputs/outputs	Operating voltage/bus line	Auxiliary power/load supply
3 wire pnp sensors/DC actuator M12 x 1 connectors	Male Female 7/8" connectors	Male Female 7/8" connectors

Compact fieldbus station FDNP-L0404G-TT
4 inputs/4 outputs



- 4 x 1 inputs, npn/pnp
4 x 1 outputs
(max. 0.5 A per output)
- Auxiliary power/load supply
- Channel-specific diagnostics
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 46

Type	FDNP-L0404G-TT
Ident-no.	6603327
Operating voltage U_B	11...26 VDC
Internal current consumption (via U_B)	< 140 mA (plus the sum of sensor currents)
Auxiliary power U_L	18...26 VDC
Input circuits	(4) 3-wire npn/pnp sensors or mechanical contacts
Input voltage (via U_B)	11...26 VDC
Input current	< 80 mA per input, short-circuit protected
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus
Output circuits	(4) DC actuators
Output voltage (via U_L)	18...26 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 100 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

C1P4 connector 1, pin 4

APS auxiliary power status
(0 = OFF, 1 = ON)

ISS input short-circuit status

IOS input wire-break status

OOS output wire-break status

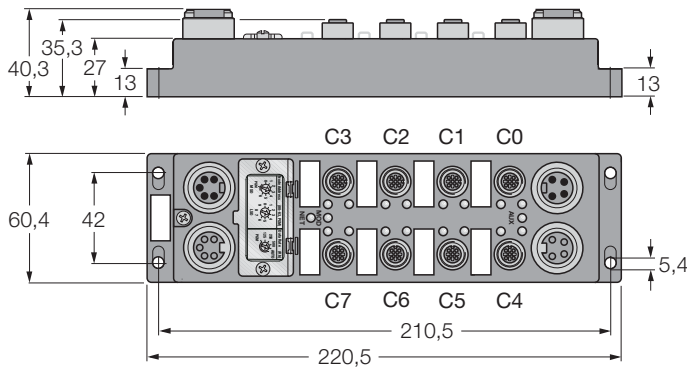
OSS output short-circuit status
(0 = OK, 1 = fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	–	–	–	–	C3P4	C2P4	C1P4	C0P4
	Byte 1	IOS-3	IOS-2	IOS-1	IOS-0	ISS-3	ISS-2	ISS-1	ISS-0
	Byte 2	OOS-3	OOS-2	OOS-1	OOS-0	OSS-3	OSS-2	OSS-1	OSS-0
	Byte 3	–	APS	–	–	–	–	–	–
Output	Byte 0	–	–	–	–	C7P4	C4P4	C5P4	C4P4

Wiring diagrams

Inputs	Outputs	Operating voltage/bus line	Auxiliary power/load supply
3-wire npn/pnp sensor M12 x 1 connectors	DC actuator M12 x 1 connectors	Male Female 1 = shield 2 = V + 3 = V – 4 = CAN_H 5 = CAN_L 7/8" connectors	Male Female 1 = Aux + 2 = E + 3 = E – 4 = Aux – 7/8" connectors

Compact fieldbus station FDNP-L0808G-TT 8 inputs/8 outputs



- 4 x 2 inputs, npn/pnp
4 x 2 outputs
(max. 0.5 A per output)
- Auxiliary power/load supply
- Channel-specific diagnostics
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 46

Type	FDNP-L0808G-TT
Ident-no.	6602389
Operating voltage U_B	11...26 VDC
Internal current consumption (via U_B)	< 100 mA (plus the sum of sensor currents)
Auxiliary power U_L	18...26 VDC
Input circuits	(8) 3-wire npn/pnp sensors or mechanical contacts
Input voltage (via U_B)	11...26 VDC
Input current	< 80 mA per input, short-circuit protected
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus
Output circuits	(8) DC actuators
Output voltage (via U_L)	18...26 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 100 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

C1P4 connector 1, pin 4

APS auxiliary power status
(0 = OFF, 1 = ON)

ISS input short-circuit status

IOS input wire-break status

OS output status

(0 = OK, 1 = fault)

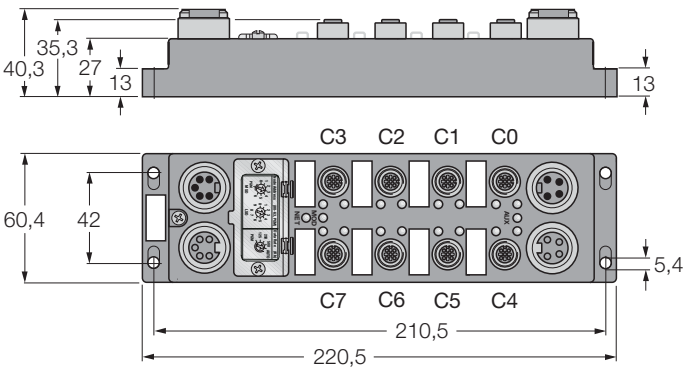
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
	Byte 1	ISS-7	ISS-6	ISS-5	ISS-4	ISS-3	ISS-2	ISS-1	ISS-0
	Byte 2	IOS-7	IOS-6	IOS-5	IOS-4	IOS-3	IOS-2	IOS-1	IOS-0
	Byte 3	OS-7	OS-6	OS-5	OS-4	OS-3	OS-2	OS-1	OS-0
	Byte 4	–	APS	–	–	–	–	–	–
Output	Byte 0	C7P2	C6P2	C5P2	C4P2	C3P2	C2P2	C1P2	C0P2

Wiring diagrams

Inputs	Outputs	Operating voltage/bus line	Auxiliary power/load supply
3-wire npn/pnp sensor M12 x 1 connectors	DC actuator M12 x 1 connectors	Male Female 7/8" connectors	Male Female 7/8" connectors

Compact fieldbus station FDNP-P1204G-TT

12 inputs/4 outputs



- 6 x 2 inputs, pnp
4 x 1 outputs
(max. 0.5 A per output)
 - Auxiliary power/load supply
 - Channel-specific diagnostics
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- **General information:**
see page 46

Type	FDNP-P1204G-TT
Ident-no.	6602672
Operating voltage U_B	11...26 VDC
Internal current consumption (via U_B)	< 100 mA (plus the sum of sensor currents)
Auxiliary power U_L	18...26 VDC
Input circuits	(12) 3-wire pnp sensors or mechanical contacts
Input voltage (via U_B)	11...26 VDC
Input current	< 80 mA per input, short-circuit protected
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus
Output circuits	(4) DC actuators
Output voltage (via U_L)	18...26 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 100 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

C1P4 connector 1, pin 4

APS auxiliary power status
(0 = OFF, 1 = ON)

ISS input short-circuit status

IOS input wire-break status

OOS output wire-break status

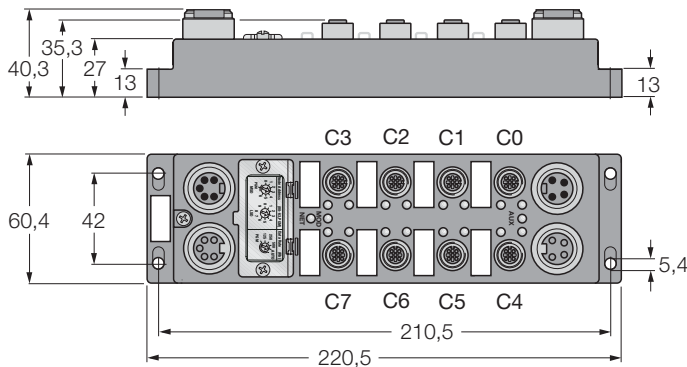
OSS output short-circuit status
(0 = OK, 1 = fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C5P2	C5P4	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4
	Byte 1	–	APS	–	–	C7P2	C7P4	C6P2	C6P4
	Byte 2	ISS-7	ISS-6	ISS-5	ISS-4	ISS-3	ISS-2	ISS-1	ISS-0
	Byte 3	OSS-3	OSS-2	OSS-1	OSS-0	ISS-11	ISS-10	ISS-9	ISS-8
	Byte 4	IOS-7	IOS-6	IOS-5	IOS-4	IOS-3	IOS-2	IOS-1	IOS-0
	Byte 5	OOS-3	OOS-2	OOS-1	OOS-0	IOS-11	IOS-10	IOS-9	IOS-8
Output	Byte 0	–	–	–	–	C4P2	C4P4	C0P2	C0P4

Wiring diagrams

Inputs	Outputs	Operating voltage/bus line	Auxiliary power/load supply
3-wire pnp sensor M12 x 1 connectors	DC actuator M12 x 1 connectors	Male Female 7/8" connectors	Male Female 7/8" connectors

Compact fieldbus station FDNP-P0808H-TT 8 inputs/8 outputs



- 4 x 2 inputs, pnp
- 4 x 2 outputs (max. 2 A per output)
- Auxiliary power/load supply
- Channel-specific diagnostics
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 46

Type	FDNP-P0808H-TT
Ident-no.	6603329
Operating voltage U_B	11...26 VDC
Internal current consumption (via U_B)	< 100 mA (plus the sum of sensor currents)
Auxiliary power U_L	18...26 VDC
Input circuits	(8) 3-wire pnp sensors or mechanical contacts
Input voltage (via U_B)	11...26 VDC
Input current	< 80 mA per input, short-circuit protected
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus
Output circuits	(8) DC actuators
Output voltage (via U_L)	18...26 VDC
Output current	2 A per output (8 A total current), short-circuit protection
Switching frequency	< 100 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

C1P4 connector 1, pin 4

APS auxiliary power status
(0 = OFF, 1 = ON)

ISS input short-circuit status

IOS input wire-break status

OS output status

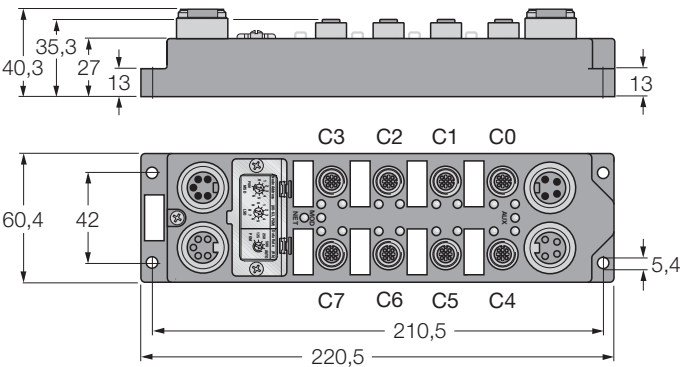
(0 = OK, 1 = fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
	Byte 1	ISS-7	ISS-6	ISS-5	ISS-4	ISS-3	ISS-2	ISS-1	ISS-0
	Byte 2	IOS-7	IOS-6	IOS-5	IOS-4	IOS-3	IOS-2	IOS-1	IOS-0
	Byte 3	OS-7	OS-6	OS-5	OS-4	OS-3	OS-2	OS-1	OS-0
	Byte 4	–	APS	–	–	–	–	–	–
Output	Byte 0	C7P2	C6P2	C5P2	C4P2	C3P2	C2P2	C1P2	C0P2

Wiring diagrams

Inputs	outputs	Operating voltage/bus line	Auxiliary power/load supply
3-wire pnp sensor M12 x 1 connectors	DC actuator M12 x 1 connectors	Male Female 7/8" connectors	Male Female 7/8" connectors

Compact fieldbus station FDNP-L0808H-TT
8 inputs/8 outputs



- 4 x 2 inputs, npn/pnp
4 x 2 outputs
(max. 2 A per output)
- Auxiliary power/load supply
- Channel-specific diagnostics
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 46

Type	FDNP-L0808H-TT
Ident-no.	6603328
Operating voltage U_B	11...26 VDC
Internal current consumption (via U_B)	< 100 mA (plus the sum of sensor currents)
Auxiliary power U_L	18...26 VDC
Input circuits	(8) 3-wire npn/pnp sensors or mechanical contacts
Input voltage (via U_B)	11...26 VDC
Input current	< 80 mA per input, short-circuit protected
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus
Output circuits	(8) DC actuators
Output voltage (via U_L)	18...26 VDC
Output current	2 A per output (8 A total current), short-circuit protection
Switching frequency	< 100 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

C1P4 connector 1, pin 4

APS auxiliary power status
(0 = OFF, 1 = ON)

ISS input short-circuit status

IOS input wire-break status

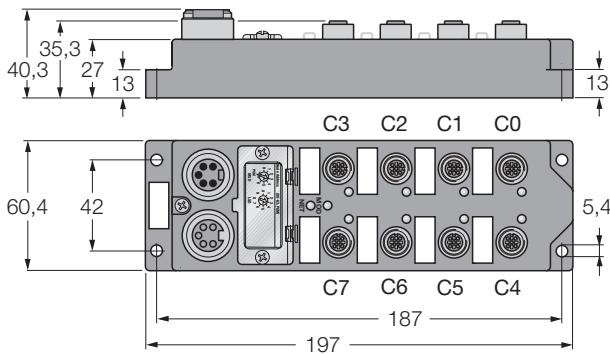
OS output status
(0 = OK, 1 = fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
	Byte 1	ISS-7	ISS-6	ISS-5	ISS-4	ISS-3	ISS-2	ISS-1	ISS-0
	Byte 2	IOS-7	IOS-6	IOS-5	IOS-4	IOS-3	IOS-2	IOS-1	IOS-0
	Byte 3	OS-7	OS-6	OS-5	OS-4	OS-3	OS-2	OS-1	OS-0
	Byte 4	–	APS	–	–	–	–	–	–
Output	Byte 0	C7P2	C6P2	C5P2	C4P2	C3P2	C2P2	C1P2	C0P2

Wiring diagrams

Inputs	Outputs	Operating voltage/bus line	Auxiliary power/load supply
3-wire npn/pnp sensor 	DC actuator 	Male Female 1 = shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	Male Female 1 = Aux + 2 = E + 3 = E - 4 = Aux -
M12 x 1 connectors		7/8" connectors	7/8" connectors

Compact fieldbus station FDNL-S0800-T
8 inputs



- 8 x 1 inputs, pnp
- Common diagnostics
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 46

Type	FDNL-S0800-T
Ident-no.	6603336
Operating voltage U_B	11...26 VDC
Internal current consumption (via U_B)	< 50 mA (plus the sum of sensor currents)
Input circuits	(8) 3-wire pnp sensors or mechanical contacts
Input voltage (via U_B)	13...26 VDC
Input current	< 700 mA, short-circuit protection
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus

I/O data mapping

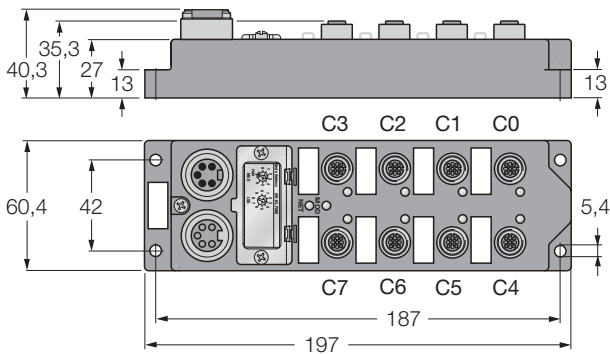
Abbreviations:

C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)
IGS common input status
(0 = OK, 1 = fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
	Byte 1	IGS	-	-	-	-	-	-	-

Wiring diagrams

Inputs	Operating voltage/bus line	
3-wire pnp sensor M12 x 1 connectors	Male 7/8" connectors	Female 7/8" connectors



- 8 x 1 inputs, npn
 - Common diagnostics
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- **General information:**
see page 46

Type	FDNL-N0800-T
Ident-no.	6603671
Operating voltage U _B	11...26 VDC
Internal current consumption (via U _B)	< 50 mA (plus the sum of sensor currents)
Input circuits	(8) 3-wire npn sensors or mechanical contacts
Input voltage (via U _B)	13...26 VDC
Input current	< 700 mA, short-circuit protection
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus

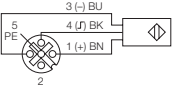
I/O data mapping		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
	Byte 1	IGS	–	–	–	–	–	–	–

Abbreviations:

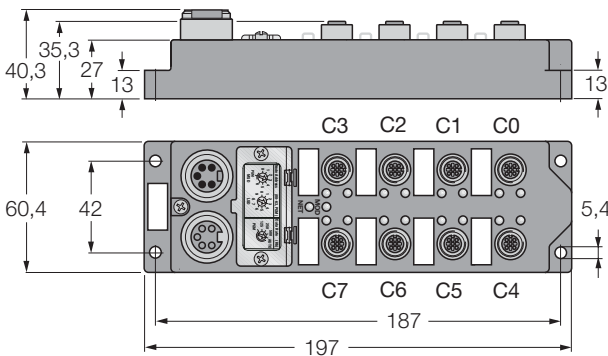
C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)

IGS common input status
(0 = OK, 1= fault)

Wiring diagrams

Inputs	Operating voltage/bus line	
3-wire npn sensor  M12 x 1 connectors	Male  Female  7/8" connectors	

Compact fieldbus station FDNL-S1600-T
16 inputs



- 8 x 2 inputs, pnp
- Common diagnostics
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 46

Type	FDNL-S1600-T
Ident-no.	6603316
Operating voltage U_B	11...26 VDC
Internal current consumption (via U_B)	< 50 mA (plus the sum of sensor currents)
Input circuits	(16) 3-wire pnp sensors or mechanical contacts
Input voltage (via U_B)	13...26 VDC
Input current	< 700 mA, short-circuit protection
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

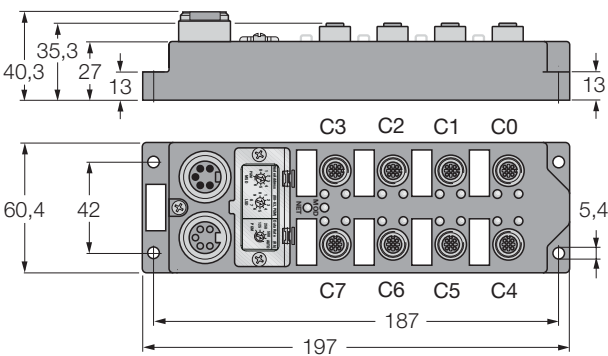
C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)
IGS common input status
(0 = OK, 1 = fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
	Byte 2	IGS	–	–	–	–	–	–	–

Wiring diagrams

Inputs	Operating voltage/bus line	
3-wire pnp sensor M12 x 1 connectors	Male	Female
	7/8" connectors	

Compact fieldbus station FDNL-N1600-T
16 inputs



- 8 x 2 inputs, npn
- Common diagnostics
- Fully encapsulated plastic housing
- Degree of protection IP67

- **General information:**
see page 46

Type	FDNL-N1600-T
Ident-no.	6603672
Operating voltage U_B	11...26 VDC
Internal current consumption (via U_B)	< 50 mA (plus the sum of sensor currents)
Input circuits	(16) 3-wire npn sensors or mechanical contacts
Input voltage (via U_B)	13...26 VDC
Input current	< 700 mA, short-circuit protection
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

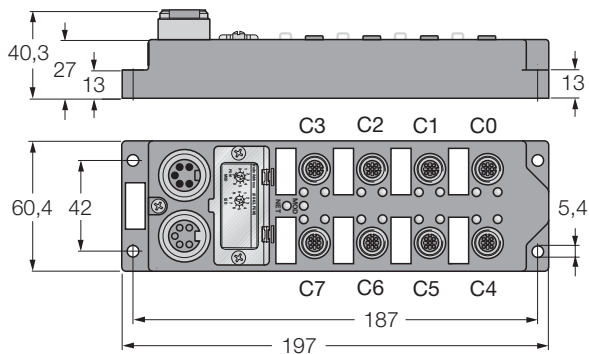
- C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)
- IGS common input status
(0 = OK, 1 = fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
	Byte 2	IGS	–	–	–	–	–	–	–

Wiring diagrams

Inputs	Operating voltage/bus line	
3-wire npn sensor M12 x 1 connectors	Male	Female
	7/8" connectors	7/8" connectors

Compact fieldbus station FDNL-CSG88-T
8 inputs/8 outputs



- 8 x 1 inputs, pnp
 - 8 x 1 outputs (max. 0.5 A per output)
 - Common diagnostics
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- **General information:**
see page 46

Type Ident-no.	FDNL-CSG88-T 6603351
Operating voltage U_B Internal current consumption (via U_B)	11...26 VDC < 100 mA (plus the sum of sensor currents)
Input circuits Input voltage (via U_B) Input current Switching threshold OFF/ON Input time delay Switching frequency Potential isolation	(8) 3-wire pnp sensors or mechanical contacts 13...26 VDC < 700 mA, short-circuit protection 2 mA / 3...3.4 mA at 24 VDC 2.5 ms < 100 Hz to bus
Output circuits Output voltage (via U_B) Output current Switching frequency Potential isolation	(8) DC actuators 18...26 VDC 0.5 A per output, short-circuit protection < 100 Hz to bus

I/O data mapping

Abbreviations:

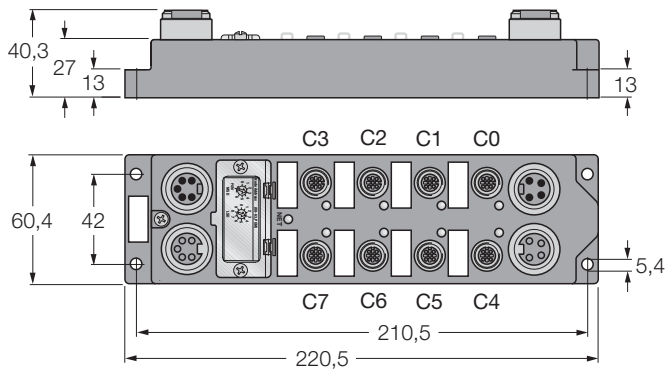
- C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)
- OGS common output status
(0 = OK, 1 = fault)
- IGS common input status
(0 = OK, 1 = fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
	Byte 1	IGS	OGS	–	–	–	–	–	–
Output	Byte 0	C7P2	C6P2	C5P2	C4P2	C3P2	C2P2	C1P2	C0P2

Wiring diagrams

Inputs/outputs	Operating voltage/bus line	
3 wire pnp sensors/DC actuator M12 x 1 connectors	Male 7/8" connectors	Female 7/8" connectors

Compact fieldbus station FDNP-S0404G-TT
4 inputs/4 outputs



- 4 x 1 inputs, pnp
4 x 1 outputs
(max. 0.5 A per output)
 - Auxiliary power/load supply
 - Common diagnostics
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- **General information:**
see page 46

Type	FDNP-S0404G-TT
Ident-no.	6603331
Operating voltage U_B	11...26 VDC
Internal current consumption (via U_B)	< 75 mA
Auxiliary power U_L	18...26 VDC
Input circuits	(4) 3-wire pnp sensors or mechanical contacts
Input voltage (via U_B)	13...26 VDC
Input current	< 700 mA, short-circuit protection
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus
Output circuits	(4) DC actuators
Output voltage (via U_L)	18...26 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 100 Hz
Potential isolation	to bus

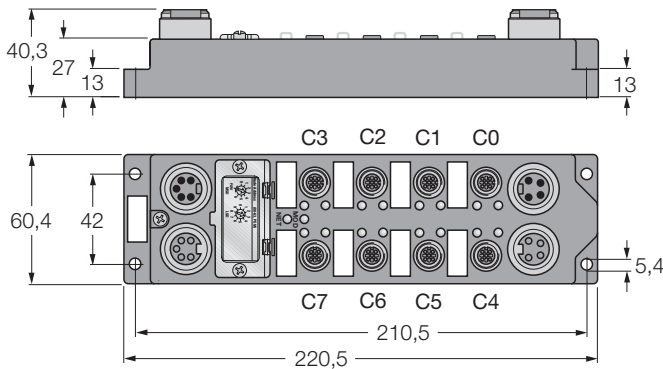
I/O data mapping		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Abbreviations:									
C1P4	connector 1, pin 4 (0 = OFF, 1 = ON)								
OGS	common output status (0 = OK, 1 = fault)								
IGS	common input status (0 = OK, 1 = fault)								

Input	Byte 0	IGS	OGS	–	–	C3P4	C2P4	C1P4	C0P4
Output	Byte 0	–	–	–	–	C7P4	C6P4	C5P4	C4P4

Wiring diagrams

Inputs	Outputs	Operating voltage/bus line	Auxiliary power/load supply
3-wire pnp sensor M12 x 1 connectors	DC actuator M12 x 1 connectors	Male Female 7/8" connectors	Male Female 7/8" connectors

Compact fieldbus station FDNP-S0808G-TT 8 inputs/8 outputs



- 4 x 2 inputs, pnp
- 4 x 2 outputs (max. 0.5 A per output)
- Auxiliary power/load supply
- Common diagnostics
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 46

Type	FDNP-S0808G-TT
Ident-no.	6603348
Operating voltage U_B	11...26 VDC
Internal current consumption (via U_B)	< 75 mA
Auxiliary power U_L	18...26 VDC
Input circuits	(8) 3-wire pnp sensors or mechanical contacts
Input voltage (via U_B)	13...26 VDC
Input current	< 700 mA, short-circuit protection
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus
Output circuits	(8) DC actuators
Output voltage (via U_L)	18...26 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 100 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

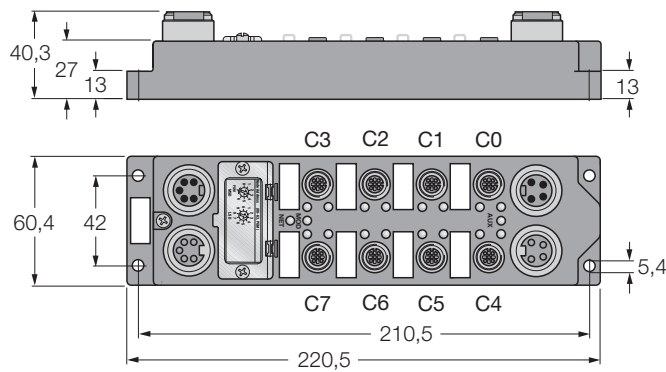
- C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)
- OGS common output status
(0 = OK, 1 = fault)
- IGS common input status
(0 = OK, 1 = fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
	Byte 1	IGS	OGS	–	–	–	–	–	–
Output	Byte 0	C7P2	C6P2	C5P2	C4P2	C3P2	C2P2	C1P2	C0P2

Wiring diagrams

Inputs	Outputs	Operating voltage/bus line	Auxiliary power/load supply
3-wire pnp sensor M12 x 1 connectors	DC actuator M12 x 1 connectors	Male Female 7/8" connectors	Male Female 7/8" connectors

Compact fieldbus station FDNP-XSG16-TT
16 inputs or outputs



- 16 configurable inputs, pnp or outputs (max. 0.5 A per output)
- High flexibility through freely configurable inputs and outputs
- Auxiliary power/load supply
- Common diagnostics
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 46

Type	FDNP-XSG16-TT
Ident-no.	6603323
Operating voltage U_B	11...26 VDC
Internal current consumption (via U_B)	< 75 mA (plus the sum of sensor currents and output currents)
Auxiliary power U_L	18...26 VDC
Input circuits	(16) 3-wire pnp sensors or mechanical contacts
Input voltage (via U_B)	13...26 VDC
Input current	< 700 mA, short-circuit protection
Switching threshold OFF/ON	2 mA / 3...3.4 mA at 24 VDC
Input time delay	2.5 ms
Switching frequency	< 100 Hz
Potential isolation	to bus
Output circuits	(16) DC actuators
Output voltage (via U_L)	18...26 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 100 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

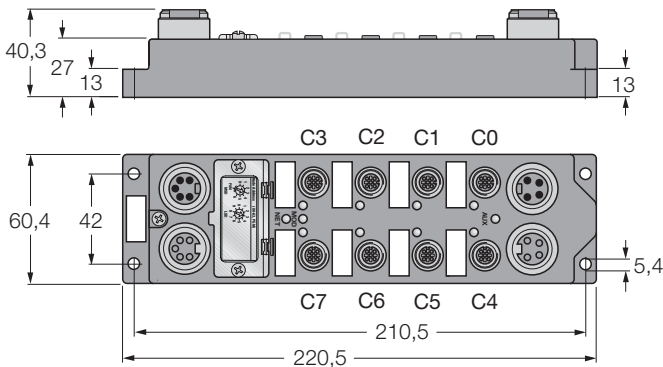
- C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)
- OGS common output status
(0 = OK, 1= fault)
- IGS common input status
(0 = OK, 1= fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
	Byte 2	IGS	OGS	–	–	–	–	–	–
Output	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4

Wiring diagrams

Inputs	Outputs	Inputs/outputs	Operating voltage/bus line		Auxiliary power/load supply	
3-wire pnp sensor	DC actuator	3 wire pnp sensors/ DC actuator	Male	Female	Male	Female
M12 x 1 connectors	M12 x 1 connectors	M12 x 1 connectors	7/8" connectors		7/8" connectors	

Compact fieldbus station FDNP-S0008G-TT
8 outputs



- 8 x 1 outputs
(max. 0.5 A per output)
- Auxiliary power/load supply
- Common diagnostics
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 46

Type FDNP-S0008G-TT
Ident-no. 6603673

Operating voltage U_B 11...26 VDC
Internal current consumption (via U_B) < 140 mA
Auxiliary power U_L 18...26 VDC

Output circuits (8) DC actuators
Output voltage (via U_L) 18...26 VDC
Output current 0.5 A per output, short-circuit protection
Switching frequency < 100 Hz
Potential isolation to bus

I/O data mapping

Abbreviations:

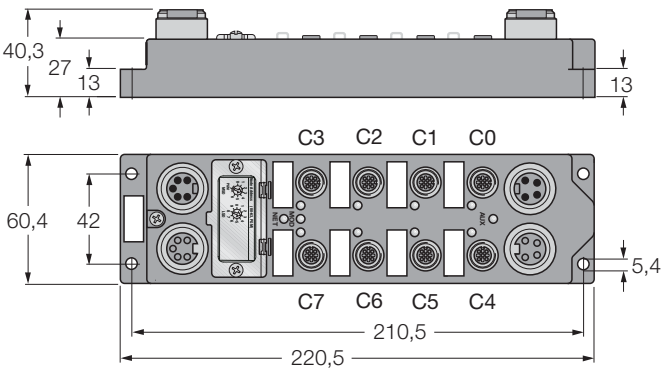
C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)
OS-7 output status: channel 7
(0 = OK, 1 = fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Output	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
Input	Byte 0	OS-7	OS-6	OS-5	OS-4	OS-3	OS-2	OS-1	OS-0

Wiring diagrams

Inputs	Operating voltage/bus line	Auxiliary power/load supply
DC actuator M12 x 1 connectors	Male Female 7/8" connectors	Male Female 7/8" connectors

Compact fieldbus station FDNP-S0008H-TT
8 outputs



- 8 x 1 outputs (max. 1.4 A per output)
- Auxiliary power/load supply
- Common diagnostics
- Fully encapsulated plastic housing
- Degree of protection IP67

- **General information:** see page 46

Type

Ident-no.

FDNP-S0008H-TT

6603674

Operating voltage U_B

Internal current consumption (via U_B)

Auxiliary power U_L

11...26 VDC

< 50 mA

18...26 VDC

Output circuits

Output voltage (via U_L)

Output current

Switching frequency

Potential isolation

(8) DC actuators

18...26 VDC

1,4 A per output (total current 8 A), short-circuit protection

< 100 Hz

to bus

I/O data mapping

Abbreviations:

C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)

OS-7 output status: channel 7
(0 = OK, 1 = fault)

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Output	Byte 0	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
Input	Byte 0	OS-7	OS-6	OS-5	OS-4	OS-3	OS-2	OS-1	OS-0

Wiring diagrams

Outputs	Operating voltage/bus line	Auxiliary power/load supply
DC actuator M12 x 1 connectors	Male Female 7/8" connectors	Male Female 7/8" connectors



Compact fieldbus stations - device overview



Series FENP
Compact flat housing with up to 16 channels, housing with one bus connector, power supply via two 7/8" connectors, common diagnostics

Type	Ident.-no.	Number of inputs	Number of outputs	Number of inputs/outputs per connector	Max. load current [A]	Data sheets see page
FENP stations – common diagnostics – pnp inputs						
FENP-S0800	6611038	8	–	1/–	–	69
FENP-S1600	6611039	16	–	2/–	–	70
FENP-S0008G	6611041	–	8	–/1	0.5	71
FENP-S0808G	6611040	8	8	2/2	0.5	72
FENP-XSG16	6611042	16 configurable channels			0.5	73

Compact fieldbus stations - type code

F EN P - S 0808 G

F = compact fieldbus
station, plastic

EN = Ethernet

P = 8 I/O connections/load voltage/
220 mm long

G = outputs 0.5 A

Number of inputs (first two figures)
Number of outputs (last two figures)

S = pnp, common short-circuit indication of inputs, ground pin
XSG = configurable I/O range

Compact fieldbus stations - Series FENP

General information



The fieldbus stations, series FENP, allow direct connection of up to 16 inputs/outputs to an Ethernet TCP/IP network.

Glass-fibre reinforced flat plastic housings and the fully encapsulated module electronics guarantee protection degree IP67. Therefore these stations are particularly suited for use in harsh industrial environments.

The stations feature common short-circuit diagnostics and support transmission rates of 10/100 Mbps.

The status of the FENP stations can be called up via an integrated web server.

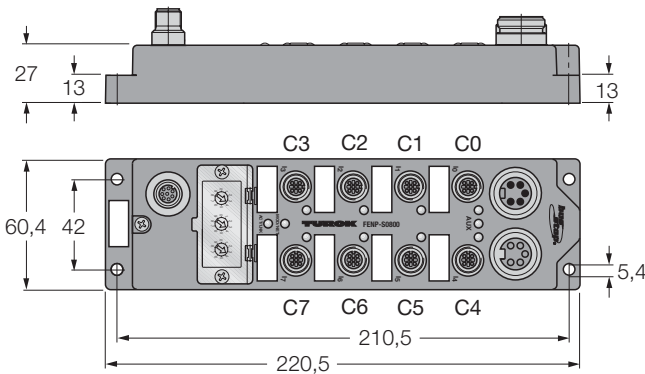
The module is connected via one 8-pole M12 x 1 connector to the Ethernet TCP/IP network.

Power is provided via a 7/8" connector and fed through via a second 7/8" connector. The module is equipped throughout with metal M12 connectors for connection of the sensor/actuator level.

General technical data

Characteristics	common short-circuit diagnostics
Adjustments	
Internet protocol IP address	
– via DHCP/BOOTP	If the first rotary switch is set to DHCP/BOOTP, then the DHCP/BOOTP server will automatically assign a netmask, an IP and default gateway address to the module. The settings of the other rotary switches are ignored.
– via PGM	If the first rotary switch is set to PGM, then the netmask, IP and default gateway address are assigned via software. The settings of the other rotary switches are ignored.
– via coded rotary switches	The last three figures of the IP address are set with the three coded rotary switches. The other values of the IP address, or netmask and default gateway accord to the default settings. In order to reset the station to the default values, set all three coded rotary switches to 0.
Reset mode	
IP address	192.168.0.0
Netmask	255.255.255.0
Default gateway	192.168.0.1
Transmission rate	After changing the position of the coded rotary switches, a voltage reset must be carried out 10/100 Kbps; automatic
Connections	
Ethernet	nickel-plated brass connectors
Power supply	1 x female M12 x 1 connector; 8-pole
Inputs/outputs	2 x 7/8" connectors 8 x female M12 x 1 connectors; 5-pole
LED indications	
Inputs	green: ON
outputs	green: ON
Power (dual colour LED)	green: operational, red: undervoltage
ACT/LINK	green: connection established
MOD/NET (dual colour LED)	flashing red: common short-circuit indication, green flashing: operational, red: communication not possible
Application layer	
HTTP	website of station
BOOTP; DHCP	automatic addressing
MODBUS TCP	I/O data exchange
EtherNet/IP	I/O data exchange (in preparation)
Housing	
Mounting	PA6-GF30, glass-fibre reinforced plastic housing with encapsulated electronics and nickel-plated brass connectors
Degree of protection	via 4 through-holes, Ø 5.4 mm
Temperature range	NEMA 1, 3, 4, 12, 13 and IEC IP67
Dimensions	0 °C to +70 °C (+32 °F to +158 °F) 220.5 x 62.4 x 27 (H x W x D)

Compact fieldbus station FENP-S0800
8 inputs



- 8 x 1 inputs pnp
 - Common diagnostics
 - Status polling via integrated web server
 - Fully encapsulated plastic housing
 - Degree of protection IP67
- **General information:**
see page 68

Type	FENP-S0800
Ident-no.	6611038
Operating voltage U_B	18...30 VDC
Internal current consumption (via U_B)	< 150 mA
Input circuits	(8) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	500 mA per 8 inputs
Switching threshold OFF/ON	2 mA / 4 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)

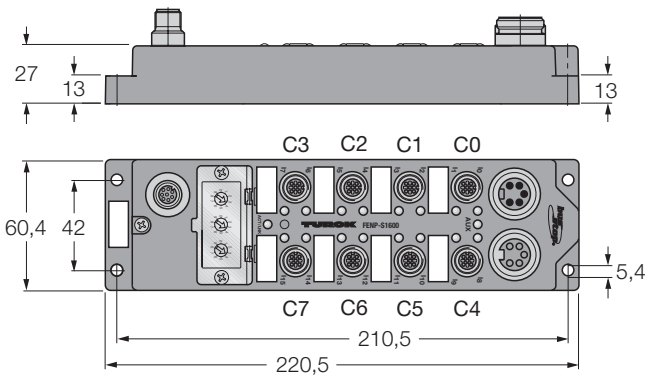
SC common short-circuit indication
 $I > 500$ mA
(0 = OK, 1= fault)

		Bit 15	Bit 14	Bit 13	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Offset 0	–	–	–	–	–	–	–	–	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4
	Offset 1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	SC

Wiring diagrams

Inputs	Ethernet	Operating/load voltage
3-wire pnp sensor M12 x 1 connectors	Female M12 x 1 connectors	Male 7/8" connectors Female 7/8" connectors

Compact fieldbus station FENP-S1600
16 inputs



- 8 x 2 inputs pnp
- Common diagnostics
- Status polling via integrated web server
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 68

Type	FENP-S1600
Ident-no.	6611039
Operating voltage U_B	18...30 VDC
Internal current consumption (via U_B)	< 150 mA
Input circuits	(16) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	500 mA per 16 inputs
Switching threshold OFF/ON	2 mA / 4 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)

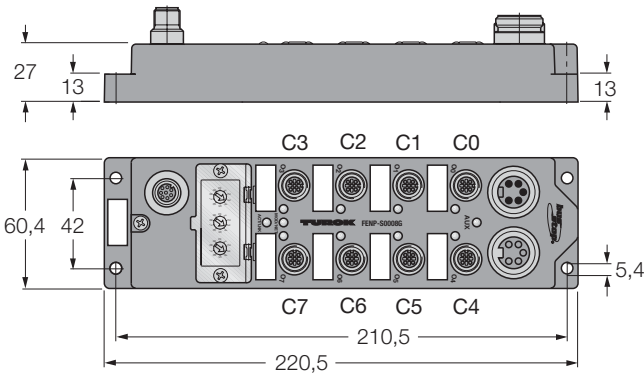
SC common short-circuit indication
 $I > 500\text{ mA}$
(0 = OK, 1= fault)

		Bit 15	Bit 14	Bit 13	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Offset 0	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Offset 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SC

Wiring diagrams

Inputs	Ethernet	Operating/load voltage
3-wire pnp sensor M12 x 1 connectors	Female M12 x 1 connectors	Male 7/8" connectors Female

Compact fieldbus station FENP-S0008G
8 outputs



- 8 x 1 outputs
(max. 0.5 A per output)
- Common diagnostics
- Status polling via integrated web server
- Fully encapsulated plastic housing
- Degree of protection IP67
- **General information:**
see page 68

Type	FENP-S0008G
Ident-no.	6611041
Operating voltage U_B	18...30 VDC
Internal current consumption (via U_B)	< 150 mA
Output circuits	(8) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 250 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)

U_L U_L < 18 VDC

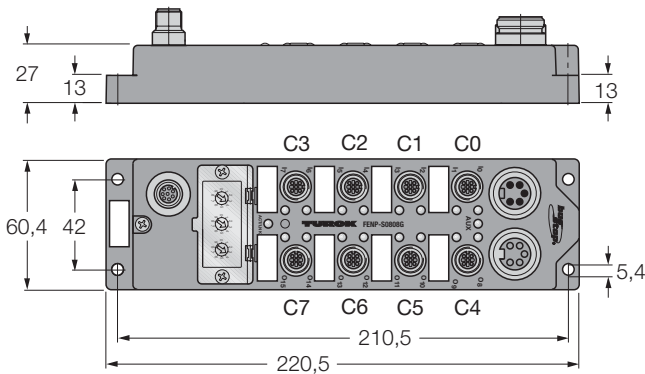
OS-7 output status: channel 7
(0 = OK, 1 = fault)

		Bit 15	Bit 14	Bit 13	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Offset 0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	U_L	–
	Offset 1	–	–	–	–	–	–	–	–	OS-7	OS-6	OS-5	OS-4	OS-3	OS-2	OS-1	OS-0
Output	Offset 0	–	–	–	–	–	–	–	–	C7P4	C6P4	C5P4	C4P4	C3P4	C2P4	C1P4	C0P4

Wiring diagrams

Outputs	Ethernet	Operating/load voltage
DC actuator M12 x 1 connectors	Female M12 x 1 connectors	Male Female 7/8" connectors

Compact fieldbus station FENP-S0808G
8 inputs/8 outputs



- 4 x 2 inputs pnp
4 x 2 outputs
(max. 0.5 A per output)
- Common diagnostics
- Status polling via integrated web server
- Fully encapsulated plastic housing
- Degree of protection IP67
- **General information:**
see page 68

Type	FENP-S0808G
Ident-no.	6611040
Operating voltage U_B	18...30 VDC
Internal current consumption (via U_B)	< 150 mA
Input circuits	(8) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)	18...30 VDC
Input current	500 mA per 8 inputs
Switching threshold OFF/ON	2 mA / 4 mA
Input time delay	2.5 ms
Switching frequency	< 250 Hz
Potential isolation	to bus
Output circuits	(8) DC actuators
Output voltage (via U_L)	18...30 VDC
Output current	0.5 A per output, short-circuit protection
Switching frequency	< 250 Hz
Potential isolation	to bus

I/O data mapping

Abbreviations:

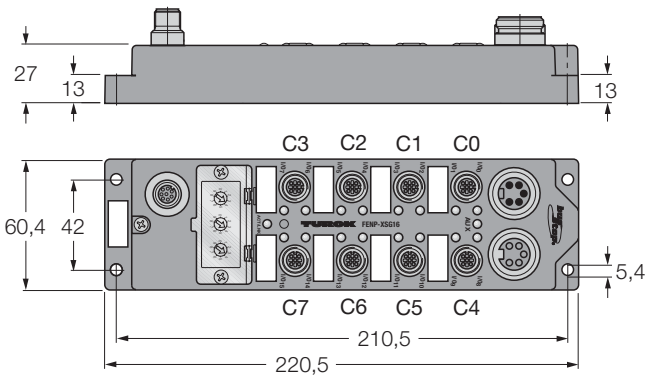
- C1P4 connector 1, pin 4
(0 = OFF, 1 = ON)
- U_L U_L < 18 VDC
- SC common short-circuit indication I > 500 mA
- OS-7 output status: channel 7
(0 = OK, 1= fault)

		Bit 15	Bit 14	Bit 13	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Offset 0	–	–	–	–	–	–	–	–	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Offset 1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	U_L	SC
	Offset 2	–	–	–	–	–	–	–	–	OS-7	OS-6	OS-5	OS-4	OS-3	OS-2	OS-1	OS-0
Output	Offset 0	–	–	–	–	–	–	–	–	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4

Wiring diagrams

Inputs	Outputs	Bus line	Operating/load voltage
3 wire pnp sensor M12 x 1 connectors	DC actuator M12 x 1 connectors	Female M12 x 1 connectors	Male 7/8" connectors Female 7/8" connectors

Compact fieldbus station FENP-XSG16
16 inputs or outputs



- 16 configurable inputs, pnp or outputs (max. 0.5 A per output)
- High flexibility through freely configurable inputs and outputs
- Common diagnostics
- Status polling via integrated web server
- Fully encapsulated plastic housing
- Degree of protection IP67

• **General information:**
see page 68

Type		FENP-XSG16
Ident-no.		6611042
Operating voltage U_B		18...30 VDC
Internal current consumption (via U_B)		< 100 mA
Input circuits		(16) pnp 3-wire sensors/2-wire sensors
Input voltage (via U_B)		18...30 VDC
Input current		< 500 mA, short-circuit protection
Switching threshold OFF/ON		2 mA / 4 mA
Input time delay		2.5 ms
Switching frequency		< 250 Hz
Potential isolation		to bus
Output circuits		(16) DC actuators
Output voltage (via U_L)		18...30 VDC
Output current		0.5 A per output, short-circuit protection
Switching frequency		< 250 Hz
Potential isolation		to bus
I/O data mapping		
Abbreviations:		
C1P4 connector 1, pin 4 (0 = OFF, 1 = ON)		SC common short-circuit indication $I > 500$ mA
U_L $U_L < 18$ VDC		OS-7 output status: channel 7 (0 = OK, 1= fault)

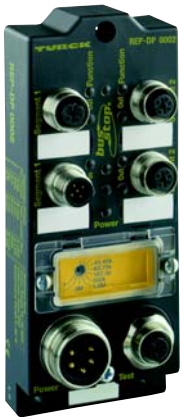
		Bit 15	Bit 14	Bit 13	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Offset 0	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Offset 1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	U_L	SC
	Offset 2	OS-15	OS-14	OS-13	OS-12	OS-11	OS-10	OS-9	OS-8	OS-7	OS-6	OS-5	OS-4	OS-3	OS-2	OS-1	OS-0
Output	Offset 0	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4

Wiring diagrams

Inputs	Outputs	Ethernet	Operating/load voltage
3 wire pnp sensor M12 x 1 connectors	DC actuator M12 x 1 connectors	Female M12 x 1 connectors	Male 7/8" connectors

Repeater REP-DP-0002

General information



With the TURCK repeater REP-DP-0002 it is possible to construct two galvanically isolated PROFIBUS-DP segments. The number of RS485 components per segment is technically limited to a maximum of 32 nodes (incl. the repeater). If the repeaters are cascaded, up to 126 PROFIBUS-DP modules can be operated via a single master and the line length of a network can be increased.

The bus in segment 2 can be dis- and re-connected electrically and mechanically during operation. Communication in segment 1 is not affected by dis-connection/re-connection.

If a transmission error occurs, the faulty segment is automatically disconnected. If the error is resolved, communication is automatically resumed. A bus error in segment 2 is indicated by a red illuminated LED on the repeater.

The TURCK repeater is specially suited for the high requirements of the harsh industrial environment.

General technical data

Adjustments

Transmission rate

- Automatic
- Manual

The transmission rate is adjusted via coded rotary switches:

- Pos. 0: Autobaud – 9.6 kbps up to 12 MBps
- Pos. 1: 9.6 kbps
- Pos. 2: 19.2 kbps
- Pos. 3: 45.45 kbps
- Pos. 4: 93.75 kbps
- Pos. 5: 187.5 kbps
- Pos. 6: 500 kbps
- Pos. 7: 1.5 Mbps
- Pos. 8: 3 Mbps
- Pos. 9: 6 Mbps
- Pos. A: 12 Mbps

Positions B to F are not used.

If the master sets a modified transmission rate, the autobaud search procedure can only be re-started after a voltage reset.

LED indications

Function (Bus)

segment 1: (1) yellow: communication – OFF: no communication
 segment 2: (1) yellow: communication – red: bus error – OFF: no communication
 the flashing frequency of the “Function” LEDs is relative to the data volume in the respective bus segment

Power (U_B)

(1) green: operational – green flashing: autobaud active

Connections

Power supply

(1) Power in: male 7/8" connector

Segment 1

(1) Bus in: male M12 x 1 connector

(1) Bus out: female connector M12 x 1

Segment 2

(2) Bus out: female connector M12 x 1

Test socket

(1) Test out: female connector M12 x 1

NOTE: In order not to affect bus communication, it is required that the measurement is effected earth-free, i.e. relative measurement between the signal lines A and B of a segment.

Housing

Material

PA6-GF30, glass-fibre reinforced plastic housing with encapsulated electronics and nickel-plated brass connectors

Mounting

via 3 through holes, Ø 5.4 mm

Degree of protection (IEC 60529/EN 60529)

IP67 (NEMA 1, 3, 4, 12, 13)

Operating temperature

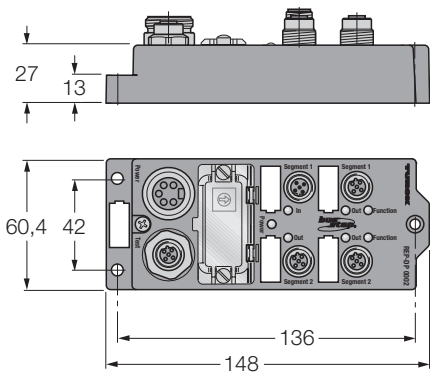
0 °C to +55 °C (+32 °F to +131 °F)

Dimensions

148 x 60 x 27 (H x W x D)

PROFIBUS-DP

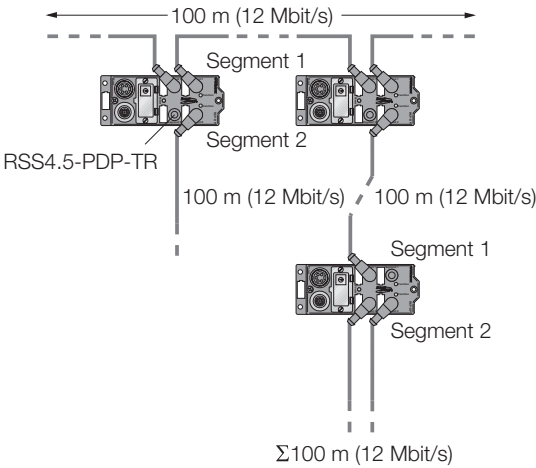
Repeater REP-DP-0002



- Enhances system availability
 - Tooling change capability
 - Segmentation and expansion of PROFIBUS-DP networks
 - Test socket for both segments
 - Direct earthing via earthing jumper
 - Manual and automatic adjustment of the transmission rate
 - Automatic disconnection of faulty segments
 - Automatic resumption of communication after error elimination
- **General information:**
see page 74

Type	REP-DP-0002
Ident-no.	6825354
Operating voltage U_B	18...30 VDC
Internal current consumption (via U_B)	62 mA at 30 VDC 100 mA at 18 VDC
Bus termination	according to the PROFIBUS guideline both PROFIBUS segments are to be independently terminated.
Earthing/shielding	The repeater can be grounded via the external screw. The shield of the bus line is capacitively coupled with the earthing screw. Additionally, the shield can be directly grounded via the earthing jumper.

Repeater configuration



Wiring diagrams

Operating voltage	Bus ¹⁾	Test ¹⁾
Male 3 4 5 2 1 1 = GND 2 = GND 3 = - 4 = U_B 5 = U_L²⁾ 7/8" connectors	Male 2 3 4 5 1 1 = 5 VDC 2 = A line 3 = GND 4 = B line 5 = shield Female 2 1 5 4 3 1 = 5 VDC 2 = A line 3 = GND 4 = B line 5 = shield M12 x 1 connectors	Female 2 1 5 4 3 1 = B line Seg.1 2 = A line Seg.1 3 = B line Seg.2 4 = A line Seg.2 5 = shield M12 x 1 connectors

¹⁾ Reverse-keyed acc. to PROFIBUS guidelines ²⁾ For feed-through of U_L to other bus devices

Repeater REP-DN
General information



The REP-DN can be operated in any kind of "Controller Area" network (CAN), including DeviceNet™. Network segments, which are directly interconnected via a repeater, are seen as physically separate networks, but as a logical unit.

The networks are "physically separated", because the trunk line and drop line lengths are determined independently of the other segment. The networks must be regarded as a logical unit, because the addresses cannot be duplicated - the scanner and configuration tools operate as a network.

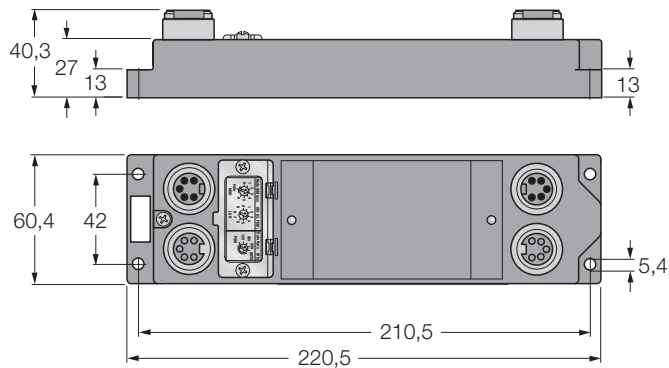
The repeater does not require an address and is thus not detected by the other devices within the network. The repeater also does not need an EDS file.

The REP-DN is designed to extend the length of trunk or drop lines. A further application is the separation of power supply modules in networks operating with multiple power supplies. The number of repeaters within a network is not limited. The repeater automatically detects the transmission speed.

General technical data

Adjustments	
Transmission rate	125 kbps, 250 kbps, 500 kbps or autobaud setting via rotary switches
LED indications	
	yellow: detection of the transmission rate green flashing: ready for data repetition green: data repetition red: data repetition not possible
Connections	
Bus line	5-pole 7/8" connector
Housing	
Mounting	PA6-GF30, glass-fibre reinforced plastic housing with encapsulated electronics and nickel-plated brass connectors
Degree of protection (IEC 60529/EN 60529)	(4) through-holes, Ø 5.3 mm
Operating temperature	IP67 (NEMA 1, 3, 4, 12, 13)
Dimensions	-25 °C to +70 °C (-13 °F to +158 °F) 220 x 60 x 40.3 (H x W x D)

Repeater REP-DN



- Glass-fibre reinforced plastic housing
- Fully encapsulated module electronics
- Degree of protection IP67
- Extremely robust
- Extension of the max. trunk line length
- Extension of the max. drop line length
- Isolation of the DeviceNet™ power supply

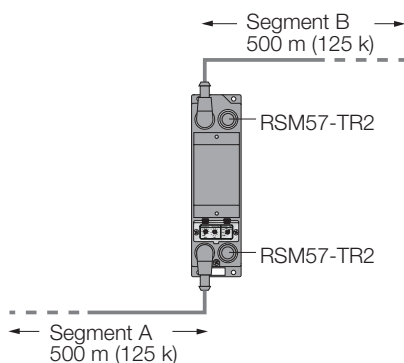
- **General information:**
see page 76

Type	REP-DN
Ident-no.	6825349
Operating voltage U_B	
Bus voltage	11...30 VDC
Current consumption	125 mA segment A, 30 mA segment B

Repeater configuration

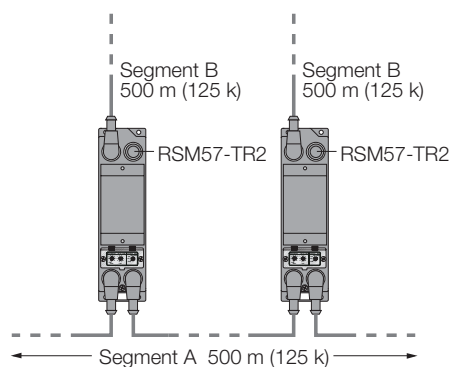
Extension of the trunk line

In order to extend the trunk line, the repeaters are connected in series. The total delay time of the network accords to the sum of the delay times of the individual repeaters. The total delay time is thus 2 ms multiplied by the number of repeaters.



Extension of the drop line

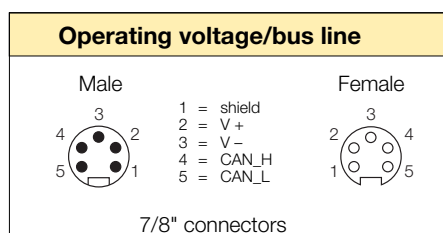
In order to extend the drop line, the repeaters are connected in parallel. The total delay time accords to 2 ms because there is always only one repeater between the scanner on the trunk line and the other device.



A ring structure is not admissible

Even though repeaters are used to construct large and complex networks, some configurations are not permitted. If a ring is created (both sides of the repeater are connected to the same network), then the repeater will constantly repeat itself, thus causing a network overload.

Wiring diagrams



Spanner module FDN-DN1

General information



The FDN-DN1 spanner module is designed for data transmission between two DeviceNet™ controllers. The module eliminates the need for a higher level network pyramid because the DeviceNet™ networks can be coupled directly with each other. The concept is simple, efficient and cost-effective.

Simple - because the spanner module's data are processed like those of a standard I/O module by the controller. Additionally each DeviceNet™ scanner can transfer I/O data to the module without requiring any additional software or complex configuration procedures.

Efficient - because the spanner module is capable of transferring up to 128 data bytes per message.

Cost-effective - because a higher level control network, two separate control cards, wiring, routing and programming are superfluous.

The spanner module must basically be seen as two DeviceNet™ devices, i. e. one in network A and the other in network B, so that it is equipped with two addressing switches. These are completely independent of each other. During start-up the module automatically detects the transmission rate. Networks A and B can be operated with different transmission rates.

General technical data

Adjustments

Address A	0...63 via rotary switch
Address B	0...63 via rotary switch
Transmission volume (via rotary switch)	4, 16, 32 or 128 bytes
Transmission volume (via software)	0...128 bytes – in case of software configuration, the bi-directional data volume must not be identical.

LED indications

yellow: detection of the transmission rate
green flashing: device is on-line, but not logically connected to the master
green: device is logically connected to the master and functions correctly
red flashing: I/O connection time-out
red: communication not possible

Connections

Bus line	5-pin 7/8" connector
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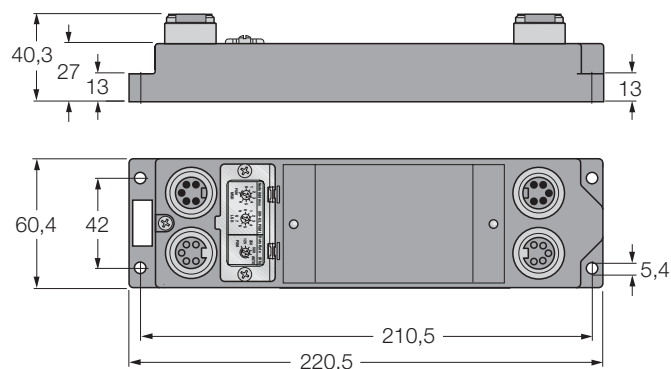
Housing

	PA6-GF30, glass-fibre reinforced plastic housing with encapsulated electronics and nickel-plated brass connectors
Mounting	(4) through-holes, Ø 5.3 mm
Degree of protection (IEC 60529/EN 60529)	IP67 (NEMA 1, 3, 4, 12, 13)
Operating temperature	-25 °C to +70 °C (-13 °F to +158 °F)
Dimensions	220 x 60 x 40.3 (H x W x D)

Approvals

UL, CSA

Spanner module FDN-DN1



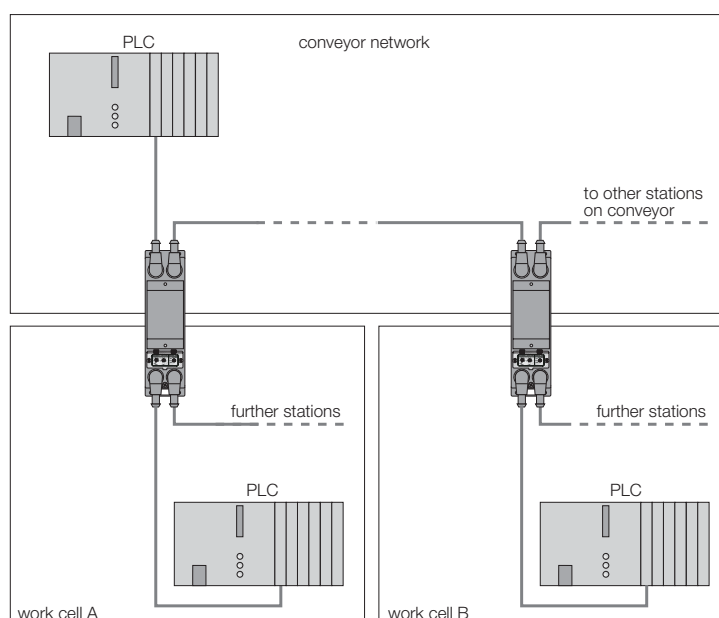
- For bi-directional data transfer between two controllers
- Transmission of up to 128 data bytes between two controllers
- Galvanic isolation of two networks via opto-couplers
- Addressing rotary switch
- **General information:**
see page 78

Type	FDN-DN1
Ident-no.	6603596
EDS file	F0132/I032_xx.eds (downloadable via the internet under www.turck.com)

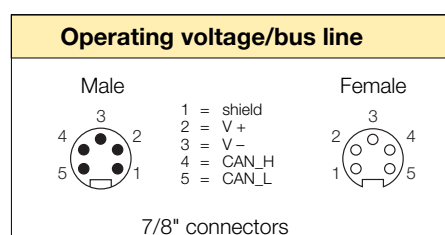
Operating voltage U_B	
Bus voltage	11...30 VDC
Current consumption	125 mA segment A, 30 mA segment B

Spanner module topology

The spanner module is mainly used to coordinate multiple work cells.



Wiring diagrams



Unmanaged switches
General information



The high performance industrial Ethernet™ switches provide five or nine M12 x 1 ports. The switch complies with IEEE 802.3 10Base-T Ethernet and 802.3u100Base-TX Fast Ethernet™ standards.

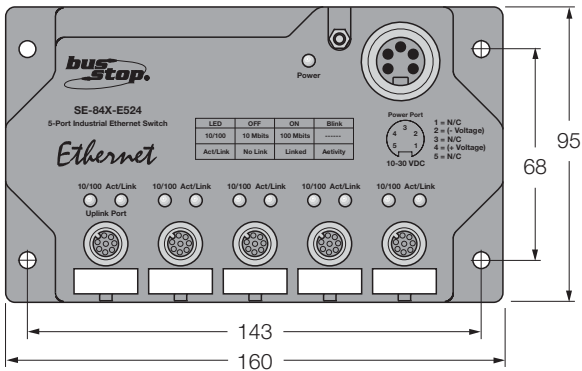
The switch auto-senses transmission speeds of 10 or 100 Mbps. It stores the addresses in its routing table. The switch supports "store-and-forward" switching architecture.

- The Ethernet™ switch is suited for the following applications:
- Segmentation of network traffic
 - Expansion of the Ethernet™ network length
 - Conversion of data packets between different transmission speeds

General technical data

LED indications	
Power	green: operational, OFF: operating voltage not applied
Act/Link	green: port linked, green flashing: port active 10/100 Mbps
10/100	green: 100 Mbps / OFF: 10 Mbps
Connections	
Ethernet	nickel-plated brass connectors
	M12 x 1 connectors
Power supply	7/8" connector, 5-pole
Housing	
	PA6-GF30, glass-fibre reinforced plastic housing with encapsulated electronics and nickel-plated brass connectors
Mounting	
Degree of protection	via 4 through-holes, Ø 5.4 mm
Temperature range	NEMA 1, 3, 4, 12, 13 and IEC IP67
Dimensions	-40 °C to +85 °C (-40 °F to +185 °F)
– SE-84X-E924	105 x 200 x 30 (H x W x D)
– SE-84X-E524	95 x 160 x 30 (H x W x D)

Unmanaged switches
SE-84X-E524 (5 ports)



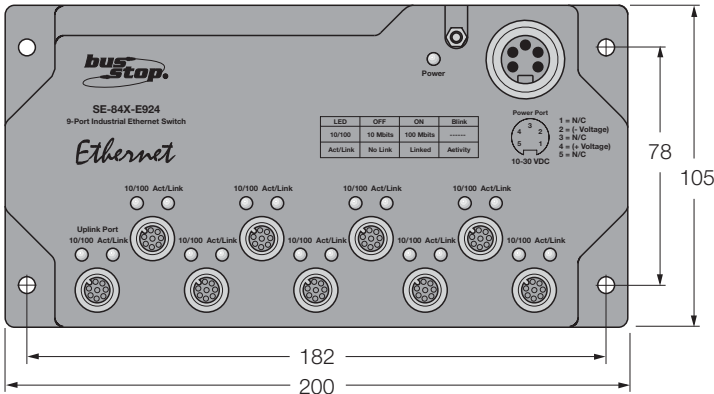
- 10/100 Mbps ports: 4 ports plus 1 uplink port
 - Standards: IEEE 802.3, 802.3u, 802.3x
 - Switching architecture: "Store-and-Forward"
 - Buffer: 128 bytes
 - Nway Auto-Negotiation: all ports
 - Full Duplex/Half Duplex: all ports
 - "Non-blocking" Full Duplex Mode (no collision)
 - Memory bandwidth: 1.4 Gbps
 - Degree of protection IP67
- **General information:**
see page 80

Type	SE-84X-E524
Ident-no.	6607000
Operating voltage U_B	10...30 VDC
Internal power consumption	1.9 W (typical)

Wiring diagrams

Operating voltage	Ethernet
Male 1 = n. c. 2 = - voltage 3 = n. c. 4 = + voltage 5 = n. c. 7/8" connectors	Female Uplink port 1 = n. c. 5 = Rx + 2 = n. c. 6 = Tx + 3 = n. c. 7 = n. c. 4 = Tx - 8 = Rx - Downlink port 1 = n. c. 5 = Tx + 2 = n. c. 6 = Rx + 3 = n. c. 7 = n. c. 4 = Rx - 8 = Tx - M12 x 1 connectors

Unmanaged switches
SE-84X-E924 (9 ports)



- 10/100 Mbps ports: 8 ports plus 1 uplink port
- Standards: IEEE 802.3, 802.3u, 802.3x
- Switching architecture: "Store-and-Forward"
- Buffer: 128 bytes
- Nway Auto-Negotiation: all ports
- Full Duplex/Half Duplex: all ports
- "Non-blocking" Full Duplex Mode (no collision)
- Memory bandwidth: 1.4 Gbps
- Protection degree IP67
- **General information:** see page 80

Type	SE-84X-E924
Ident-no.	6607001
Operating voltage U_B	10...30 VDC
Current consumption	4 W (typical)

Wiring diagrams

Operating voltage	Ethernet
Male 3 2 1 4 5 7/8" connectors 1 = n. c. 2 = - voltage 3 = n. c. 4 = + voltage 5 = n. c.	Female 6 7 1 2 3 4 5 8 M12 x 1 connectors Uplink port 1 = n. c. 2 = n. c. 3 = n. c. 4 = Tx - 5 = Rx + 6 = TX + 7 = n. c. 8 = Rx - Downlink port 1 = n. c. 2 = n. c. 3 = n. c. 4 = Rx - 5 = Tx + 6 = Rx + 7 = n. c. 8 = Tx -

Buskabel-Qualitäten PROFIBUS-DP, CAN (DeviceNet™, CANopen), Ethernet (vorkonfektionierte Leitungen ab Seite A1 – 4)

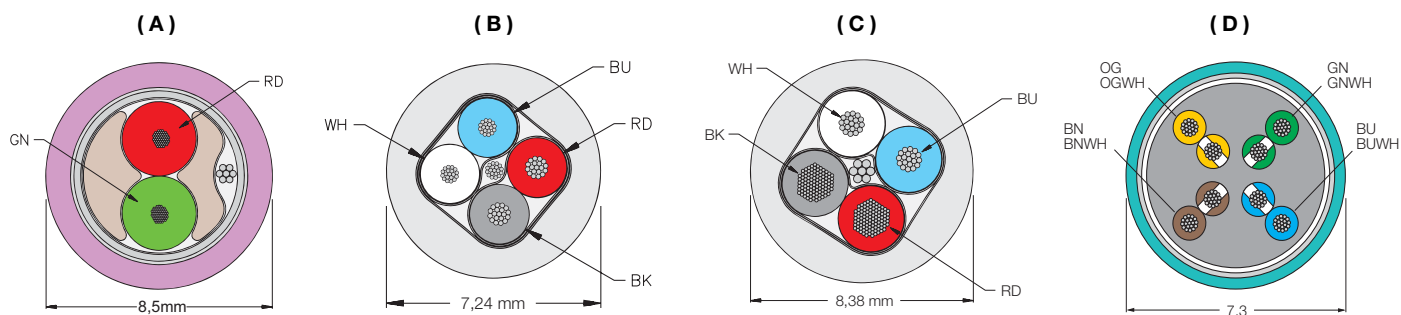
Bus Cable Materials PROFIBUS-DP, CAN (DeviceNet™, CANopen), Ethernet (premoulded Cables from page A1 – 4 onwards)

Feldbus Fieldbus	Kabeltyp Cable type	Abb. Fig.	Material Kabelmantel Material cable jacket	Halogenfrei Halogen-free	Schleppketten- fähig Suited to trailing applications	Data pair			
						Leiter-Querschnitt Connection profile [mm²]	Nennstrom Rated current [A]	DC-Widerstand DC resistance [Ω/km]	
PROFIBUS-DP	451	(A)	TPUS	•	•	2 x 0,34	4	50	
CAN (DeviceNet™, CANopen)	572 (Thin)	(B)	PVC	–	–	2 x 0,32	6,4	54,1	
CAN (DeviceNet™, CANopen)	5711 (Mid)	(C)	PVC	–	–	2 x 0,52	9,6	34,1	
CAN (DeviceNet™, CANopen)	5723 (Mid)	(C)	PUR	–	•	2 x 0,52	9,6	34,1	
Ethernet	841	(D)	PVC	–	•	8 x 0,21	1,5	94	
Ethernet	843	(D)	PVC	–	–	8 x 0,21	1,5	94	

Versorgungskabel-Qualitäten PROFIBUS-DP, CAN (DeviceNet™, CANopen) (vorkonfektionierte Leitungen ab Seite A2 – 2)

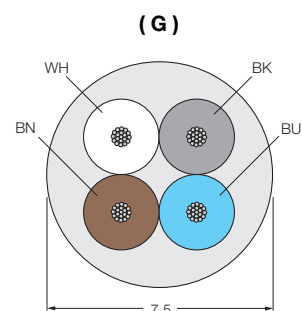
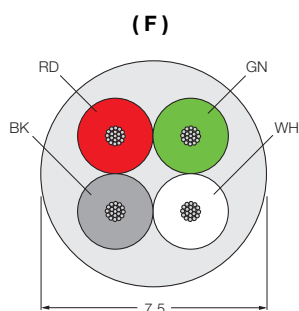
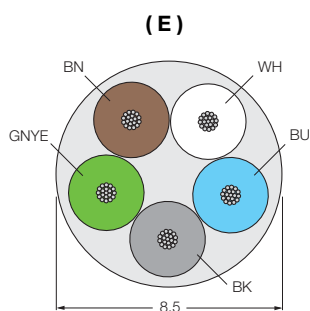
Power Cable Materials PROFIBUS-DP, CAN (DeviceNet™, CANopen) (premoulded cables from page A2 – 2 onwards)

Nutzbar für Gerätefamilie (Bussystem) Usable for product family (Bus System)	Bussystem Bus System	Kabeltyp Cable type	Abb. Fig.	Material Kabelmantel Material cable jacket	Halogenfrei Halogen-free	Schleppkettenfähig Suited to trailing applications	Leiter-Querschnitt Connection profile	
							[mm²]	
BL67 FLDP, PDP, FXDP FENP	PROFIBUS-DP, CAN PROFIBUS-DP Ethernet™	52	(E)	PUR	•	•	5 x 1,5	
FDN...	DeviceNet™	43	(F)	PUR	•	•	4 x 1,5	
<i>piconet®</i>	PROFIBUS-DP, CAN	IPS	(G)	PUR	–	•	4 x 0,34	



	Power pair			Nennwerte Ratings	Nom. Impedanz Data pair nom. impedance Data pair [Ω]	Nom. Kapazität Data pair nom. capacitance Data pair [pF/m]	Schirmung Shield	Zulassungen Approvals	ab Seite ... from page ... onwards
	Leiter-Querschnitt Connection profile	Nennstrom Rated current	DC-Widerstand DC resistance						
	[mm ²]	[A]	[Ω/km]						
	–	–	–	300 V, 80 °C	150 (3...20 MHz)	30	•	–	A1 – 4
	2 x 0,32	6,4	54,1	300 V, 80 °C	126 (1MHz)	37,17	•	UL, CSA	A1 – 8
	2 x 1,30	15,2	13,5	300 V, 80 °C	110 (1 MHz)	40,52	•	UL, CSA	A1 – 10
	2 x 1,04	13,6	16,9	300 V, 80 °C	110 (1 MHz)	40,52	•	UL, CSA	A1 – 12
	–	–	–	300 V, 75 °C	100 (1 MHz)	46	•	UL	A1 – 16
	–	–	–	300 V, 75 °C	100 (1 MHz)	46	•	UL	A1 – 16

	Nennstrom Rated current	DC-Widerstand DC resistance	Nennwerte Ratings	Nom. Impedanz nom. impedance	Nom. Kapazität nom. capacitance	Schirmung Shield	Zulassungen Approvals	ab Seite ... from page ... onwards
	[A]	[Ω/km]		[Ω]	[pF/m]			
	15	13,3	240 V, 90 °C	–	–	–	–	A2 – 2
	15	13,3	240 V, 90 °C	–	–	–	–	A2 – 4
	6	58,7	240 V, 80 °C	–	–	–	–	A2 – 6

A1


Vorkonfektionierte Buskabel für PROFIBUS-DP, Typ 451

Premoulded Bus Cables for PROFIBUS-DP, Type 451

Konfektionierbare Steckverbinder siehe Seite A3 – 4
Field wireable connectors see page A3 – 4

Abmessungen/Bauform Dimensions/Housing style [mm]	Anschluss Connection	Steckverbinder Ausführung/ Maßbild Connector type/ dimension drawing	Kabellänge Cable length [m]	
Kabel-Meterware Bulk cable		–	30	
		–	150	
		–	500	
 (A) (B)		(A)	6	
		(A)	10	
		(A)	15	
		(B)	6	
		(B)	10	
		(B)	15	
		(A) + (B)	0,3	
		(A) + (B)	0,5	
		(A) + (B)	1	
		(A) + (B)	2	
		(A) + (B)	4	
		(A) + (B)	6	
		(A) + (B)	10	
		(A) + (B)	15	
		(A) + (B)	30	
 (C) (D)		(C)	6	
		(C)	10	
		(C)	15	
		(D)	6	
		(D)	10	
		(D)	15	
		(C) + (D)	0,3	
		(C) + (D)	0,5	
		(C) + (D)	1	
		(C) + (D)	2	
		(C) + (D)	4	
		(C) + (D)	6	
		(C) + (D)	10	
		(C) + (D)	15	
		(C) + (D)	30	

	Typenbezeichnung Type	Ident-Nr. Ident No.	Kabeltyp Cable type	Material Kabelmantel Material cable jacket	Invers codiert gemäß PNO-Richtlinie Reverse keyed acc. to PNO guidelines	Schleppkettenfähig Suited to trailing applications	Schutzart Degree of protection
	KABEL451-30M	6915601	451	TPUS	–	•	–
	KABEL451-150M	6915603	451	TPUS	–	•	–
	KABEL451-500M	6915606	451	TPUS	–	•	–
	RSSW451-6M	6914111	451	TPUS	•	•	IP67
	RSSW451-10M	6914112	451	TPUS	•	•	IP67
	RSSW451-15M	6914113	451	TPUS	•	•	IP67
	RKSW451-6M	6914114	451	TPUS	•	•	IP67
	RKSW451-10M	6914115	451	TPUS	•	•	IP67
	RKSW451-15M	6914116	451	TPUS	•	•	IP67
	RSSW-RKSW451-0,3M	6915655	451	TPUS	•	•	IP67
	RSSW-RKSW451-0,5M	6914117	451	TPUS	•	•	IP67
	RSSW-RKSW451-1M	6914118	451	TPUS	•	•	IP67
	RSSW-RKSW451-2M	6914119	451	TPUS	•	•	IP67
	RSSW-RKSW451-4M	6914120	451	TPUS	•	•	IP67
	RSSW-RKSW451-6M	6914121	451	TPUS	•	•	IP67
	RSSW-RKSW451-10M	6914122	451	TPUS	•	•	IP67
	RSSW-RKSW451-15M	6914123	451	TPUS	•	•	IP67
	RSSW-RKSW451-30M	6914124	451	TPUS	•	•	IP67
	WSSW451-6M	6914128	451	TPUS	•	•	IP67
	WSSW451-10M	6914129	451	TPUS	•	•	IP67
	WSSW451-15M	6914130	451	TPUS	•	•	IP67
	WKS451-6M	6914131	451	TPUS	•	•	IP67
	WKS451-10M	6914132	451	TPUS	•	•	IP67
	WKS451-15M	6914133	451	TPUS	•	•	IP67
	WSSW-WKS451-0,3M	6915680	451	TPUS	•	•	IP67
	WSSW-WKS451-0,5M	6914134	451	TPUS	•	•	IP67
	WSSW-WKS451-1M	6914135	451	TPUS	•	•	IP67
	WSSW-WKS451-2M	6914136	451	TPUS	•	•	IP67
	WSSW-WKS451-4M	6914137	451	TPUS	•	•	IP67
	WSSW-WKS451-6M	6914138	451	TPUS	•	•	IP67
	WSSW-WKS451-10M	6914139	451	TPUS	•	•	IP67
	WSSW-WKS451-15M	6914140	451	TPUS	•	•	IP67
	WSSW-WKS451-30M	6914141	451	TPUS	•	•	IP67

A1

Vorkonfektionierte Buskabel für PROFIBUS-DP, Typ 451

Premoulded Bus Cables for PROFIBUS-DP, Type 451

Konfektionierbare Steckverbinder siehe Seite A3 – 4
Field wireable connectors see page A3 – 4

Abmessungen/Bauform Dimensions/Housing style [mm]	Anschluss Connection	Abschlusswiderstand Terminating resistor	Kabellänge Cable length [m]	
		– – –	2 x 0,5 2 x 1 2 x 2	
		– – – –	2 x 0,3 2 x 0,5 2 x 1 2 x 2	
		– – – –	2 x 0,3 2 x 0,5 2 x 1 2 x 2	
		• • •	0,5 1 2	
		• • • •	0,3 0,5 1 2	
		• • • •	0,3 0,5 1 2	

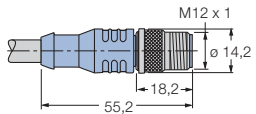
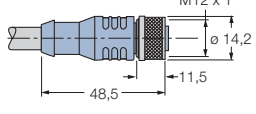
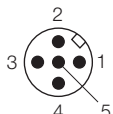
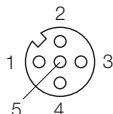
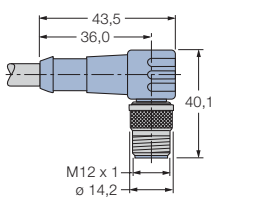
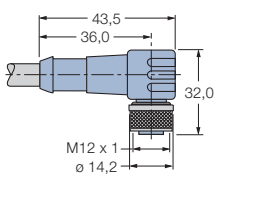
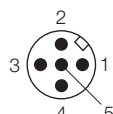
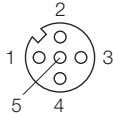
	Typenbezeichnung Type	Ident-Nr. Ident No.	Kabeltyp Cable type	Material Kabelmantel Material cable jacket	Invers codiert gemäß PNO-Richtlinie Reverse keyed acc. to PNO guidelines	Schleppkettenfähig Suited to trailing applications	Schutzart Degree of protection SUB-D / M12
	D9-451-0,5M-0,5M	6915747	451	TPUS	•	•	IP20 / –
	D9-451-1M-1M	6915748	451	TPUS	•	•	IP20 / –
	D9-451-2M-2M	6915749	451	TPUS	•	•	IP20 / –
	RSSW-D9-RKSW-451-0,3M-0,3M	6914125	451	TPUS	•	•	IP20 / IP67
	RSSW-D9-RKSW-451-0,5M-0,5M	6915741	451	TPUS	•	•	IP20 / IP67
	RSSW-D9-RKSW-451-1M-1M	6914126	451	TPUS	•	•	IP20 / IP67
	RSSW-D9-RKSW-451-2M-2M	6914127	451	TPUS	•	•	IP20 / IP67
	RKSW-D9-RKSW-451-0,3M-0,3M	6604659	451	TPUS	•	•	IP20 / IP67
	RKSW-D9-RKSW-451-0,5M-0,5M	6915792	451	TPUS	•	•	IP20 / IP67
	RKSW-D9-RKSW-451-1M-1M	6915793	451	TPUS	•	•	IP20 / IP67
	RKSW-D9-RKSW-451-2M-2M	6915794	451	TPUS	•	•	IP20 / IP67
	D9T451-0,5M	6915757	451	TPUS	•	•	IP20 / –
	D9T451-1M	6915758	451	TPUS	•	•	IP20 / –
	D9T451-2M	6915759	451	TPUS	•	•	IP20 / –
	RSSW-D9T451-0,3M	6915775	451	TPUS	•	•	IP20 / IP67
	RSSW-D9T451-0,5M	6915777	451	TPUS	•	•	IP20 / IP67
	RSSW-D9T451-1M	6915778	451	TPUS	•	•	IP20 / IP67
	RSSW-D9T451-2M	6915779	451	TPUS	•	•	IP20 / IP67
	RKSW-D9T451-0,3M	6915765	451	TPUS	•	•	IP20 / IP67
	RKSW-D9T451-0,5M	6915767	451	TPUS	•	•	IP20 / IP67
	RKSW-D9T451-1M	6915768	451	TPUS	•	•	IP20 / IP67
	RKSW-D9T451-2M	6915769	451	TPUS	•	•	IP20 / IP67

A1

Vorkonfektionierte Buskabel für CAN (DeviceNet™, CANopen), Typ 572

Premoulded Bus Cables for CAN (DeviceNet™, CANopen), Type 572

Konfektionierbare Steckverbinder siehe Seite A3 – 12
Field wireable connectors see page A3 – 12

Abmessungen/Bauform Dimensions/Housing style [mm]	Anschluss Connection	Steckverbinder Ausführung/ Maßbild Connector type/ dimension drawing	Kabellänge Cable length [m]	
Kabel-Meterware Bulk cable		–	30	
		–	150	
		–	500	
 (A)  (B)	M12 x 1  	 	 (A) 6	
			 (A) 10	
			 (A) 15	
			 (B) 6	
			 (B) 10	
			 (B) 15	
			 (A) + (B) 0,3	
			 (A) + (B) 0,5	
			 (A) + (B) 1	
			 (A) + (B) 2	
			 (A) + (B) 4	
			 (A) + (B) 6	
			 (A) + (B) 10	
			 (A) + (B) 15	
			 (A) + (B) 30	
 (C)  (D)	M12 x 1  	 	 (C) 6	
			 (C) 10	
			 (C) 15	
			 (D) 6	
			 (D) 10	
			 (D) 15	
			 (C) + (D) 0,3	
			 (C) + (D) 0,5	
			 (C) + (D) 1	
			 (C) + (D) 2	
			 (C) + (D) 4	
			 (C) + (D) 6	
			 (C) + (D) 10	
			 (C) + (D) 15	
			 (C) + (D) 30	

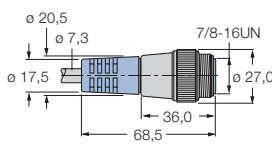
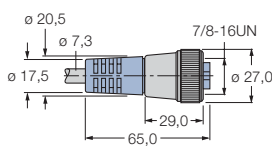
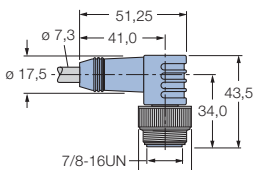
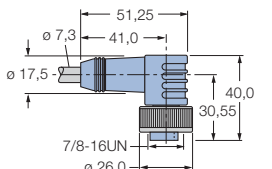
	Typenbezeichnung Type	Ident-Nr. Ident No.	Kabeltyp Cable type	Material Kabelmantel Material cable jacket	Schleppkettenfähig Suited to trailing applications	Schutzart Degree of protection
	KABEL572-30M	6958118	572	PVC	–	–
	KABEL572-150M	6958120	572	PVC	–	–
	KABEL572-500M	6604900	572	PVC	–	–
	RSC572-6M	6602447	572	PVC	–	IP67
	RSC572-10M	6602640	572	PVC	–	IP67
	RSC572-15M	6603623	572	PVC	–	IP67
	RKC572-6M	6603624	572	PVC	–	IP67
	RKC572-10M	6602428	572	PVC	–	IP67
	RKC572-15M	6604933	572	PVC	–	IP67
	RSC-RKC572-0.3M	6602473	572	PVC	–	IP67
	RSC-RKC572-0.5M	6602332	572	PVC	–	IP67
	RSC-RKC572-1M	6603628	572	PVC	–	IP67
	RSC-RKC572-2M	6603629	572	PVC	–	IP67
	RSC-RKC572-4M	6603630	572	PVC	–	IP67
	RSC-RKC572-6M	6602394	572	PVC	–	IP67
	RSC-RKC572-10M	6602639	572	PVC	–	IP67
	RSC-RKC572-15M	6602635	572	PVC	–	IP67
	RSC-RKC572-30M	6603395	572	PVC	–	IP67
	WSC572-6M	6603635	572	PVC	–	IP67
	WSC572-10M	6603636	572	PVC	–	IP67
	WSC572-15M	6603637	572	PVC	–	IP67
	WKC572- 6M	6603638	572	PVC	–	IP67
	WKC572-10M	6602637	572	PVC	–	IP67
	WKC572-15M	6603640	572	PVC	–	IP67
	WSC-WKC572- 0.3M	6603608	572	PVC	–	IP67
	WSC-WKC572- 0.5M	6602024	572	PVC	–	IP67
	WSC-WKC572-1M	6602027	572	PVC	–	IP67
	WSC-WKC572-2M	6602030	572	PVC	–	IP67
	WSC-WKC572-4M	6602542	572	PVC	–	IP67
	WSC-WKC572-6M	6603645	572	PVC	–	IP67
	WSC-WKC572-10M	6602638	572	PVC	–	IP67
	WSC-WKC572-15M	6602684	572	PVC	–	IP67
	WSC-WKC572-30M	6603648	572	PVC	–	IP67

A1

Vorkonfektionierte Buskabel für CAN (DeviceNet™, CANopen), Typ 5711

Premoulded Bus Cables for CAN (DeviceNet™, CANopen), Type 5711

Konfektionierbare Steckverbinder siehe Seite A3 – 12
Field wireable connectors see page A3 – 12

Abmessungen/Bauform Dimensions/Housing style [mm]	Anschluss Connection	Steckverbinder Ausführung/ Maßbild Connector type/ dimension drawing	Kabellänge Cable length [m]	
Kabel-Meterware Bulk cable		–	30	
		–	150	
		–	500	
 (A)  (B)		(A)	6	
		(A)	10	
		(A)	15	
		(B)	6	
		(B)	10	
		(B)	15	
		(A) + (B)	0,3	
		(A) + (B)	0,5	
		(A) + (B)	1	
		(A) + (B)	2	
		(A) + (B)	4	
		(A) + (B)	6	
		(A) + (B)	10	
		(A) + (B)	15	
		(A) + (B)	30	
 (C)  (D)		(C)	6	
		(C)	10	
		(C)	15	
		(D)	6	
		(D)	10	
		(D)	15	
		(C) + (D)	0,3	
		(C) + (D)	0,5	
		(C) + (D)	1	
		(C) + (D)	2	
		(C) + (D)	4	
		(C) + (D)	6	
		(C) + (D)	10	
		(C) + (D)	15	
		(C) + (D)	30	

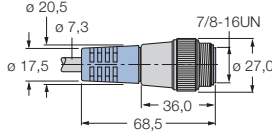
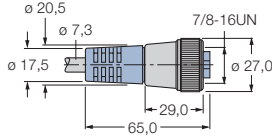
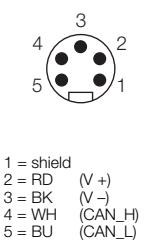
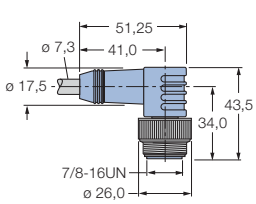
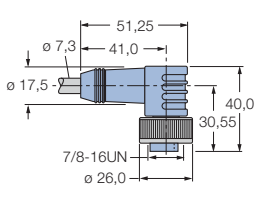
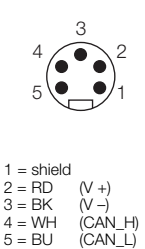
	Typenbezeichnung Type	Ident-Nr. Ident No.	Kabeltyp Cable type	Material Kabelmantel Material cable jacket	Schleppkettenfähig Suited to trailing applications	Schutzart Degree of protection
	KABEL5711-30M	6602453	5711	PVC	–	–
	KABEL5711-150M	6602455	5711	PVC	–	–
	KABEL5711-500M	6604922	5711	PVC	–	–
	RSM5711-6M	6603649	5711	PVC	–	IP67
	RSM5711-10M	6603650	5711	PVC	–	IP67
	RSM5711-15M	6603651	5711	PVC	–	IP67
	RKM5711-6M	6603652	5711	PVC	–	IP67
	RKM5711-10M	6603653	5711	PVC	–	IP67
	RKM5711-15M	6602395	5711	PVC	–	IP67
	RSM-RKM5711- 0.3M	6602611	5711	PVC	–	IP67
	RSM-RKM5711- 0.5M	6602050	5711	PVC	–	IP67
	RSM-RKM5711- 1M	6602356	5711	PVC	–	IP67
	RSM-RKM5711- 2M	6602045	5711	PVC	–	IP67
	RSM-RKM5711- 4M	6602051	5711	PVC	–	IP67
	RSM-RKM5711- 6M	6602052	5711	PVC	–	IP67
	RSM-RKM5711-10M	6602023	5711	PVC	–	IP67
	RSM-RKM5711-15M	6602504	5711	PVC	–	IP67
	RSM-RKM5711-30M	6603662	5711	PVC	–	IP67
	WSM5711- 6M	6606039	5711	PVC	–	IP67
	WSM5711-10M	6602718	5711	PVC	–	IP67
	WSM5711-15M	6603225	5711	PVC	–	IP67
	WKM5711- 6M	6605296	5711	PVC	–	IP67
	WKM5711- 10M	6605298	5711	PVC	–	P67
	WKM5711- 15M	6605299	5711	PVC	–	IP67
	WSM-WKM5711- 0.3M	6605652	5711	PVC	–	IP67
	WSM-WKM5711- 0.5M	6602014	5711	PVC	–	IP67
	WSM-WKM5711- 1M	6602016	5711	PVC	–	IP67
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	WSM-WKM5711- 4M	6605654	5711	PVC	–	IP67
	WSM-WKM5711- 6M	6602401	5711	PVC	–	IP67
	WSM-WKM5711-10M	6602022	5711	PVC	–	IP67
	WSM-WKM5711-15M	6603447	5711	PVC	–	IP67
	WSM-WKM5711-30M	6605657	5711	PVC	–	IP67

A1

Vorkonfektionierte Buskabel für CAN (DeviceNet™, CANopen), Typ 5723

Premoulded Bus Cables for CAN (DeviceNet™, CANopen), Type 5723

Konfektionierbare Steckverbinder siehe Seite A3 – 12
Field wireable connectors see page A3 – 12

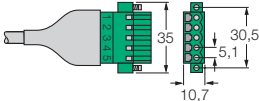
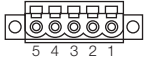
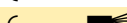
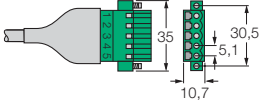
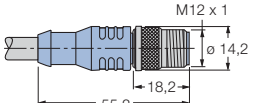
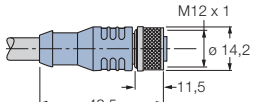
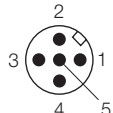
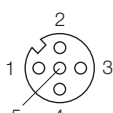
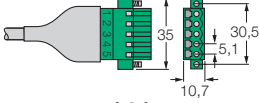
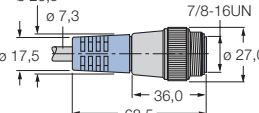
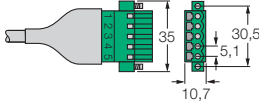
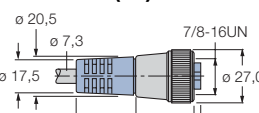
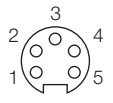
Abmessungen/Bauform Dimensions/Housing style [mm]	Anschluss Connection	Steckverbinder Ausführung/ Maßbild Connector type/ dimension drawing	Kabellänge Cable length [m]	
Kabel-Meterware Bulk cable		–	30	
		–	150	
		–	500	
 (A)  (B) 7/8"  1 = shield 2 = RD (V +) 3 = BK (V -) 4 = WH (CAN_H) 5 = BU (CAN_L)		(A)	6	
		(A)	10	
		(A)	15	
		(B)	6	
		(B)	10	
		(B)	15	
		(A) + (B)	0,3	
		(A) + (B)	0,5	
		(A) + (B)	1	
		(A) + (B)	2	
		(A) + (B)	4	
		(A) + (B)	6	
		(A) + (B)	10	
		(A) + (B)	15	
		(A) + (B)	30	
 (C)  (D) 7/8"  1 = shield 2 = RD (V +) 3 = BK (V -) 4 = WH (CAN_H) 5 = BU (CAN_L)		(C)	6	
		(C)	10	
		(C)	15	
		(D)	6	
		(D)	10	
		(D)	15	
		(C) + (D)	0,3	
		(C) + (D)	0,5	
		(C) + (D)	1	
		(C) + (D)	2	
		(C) + (D)	4	
		(C) + (D)	6	
		(C) + (D)	10	
		(C) + (D)	15	
		(C) + (D)	30	

	Typenbezeichnung Type	Ident-Nr. Ident No.	Kabeltyp Cable type	Material Kabelmantel Material cable jacket	Schleppkettenfähig Suited to trailing applications	Schutzart Degree of protection
	KABEL5723-30M	6604923	5723	PUR	•	–
	KABEL5723-150M	6604925	5723	PUR	•	–
	KABEL5723-500M	6604928	5723	PUR	•	–
	RSM5723-6M	6605933	5723	PUR	•	IP67
	RSM5723-10M	6605935	5723	PUR	•	IP67
	RSM5723-15M	6605936	5723	PUR	•	IP67
	RKM5723-6M	6605189	5723	PUR	•	IP67
	RKM5723-10M	6605191	5723	PUR	•	IP67
	RKM5723-15M	6605192	5723	PUR	•	IP67
	RSM-RKM5723-0.3M	6605544	5723	PUR	•	IP67
	RSM-RKM5723-0.5M	6605545	5723	PUR	•	IP67
	RSM-RKM5723-1M	6605546	5723	PUR	•	IP67
	RSM-RKM5723-2M	6605548	5723	PUR	•	IP67
	RSM-RKM5723-4M	6605551	5723	PUR	•	IP67
	RSM-RKM5723-6M	6605553	5723	PUR	•	IP67
	RSM-RKM5723-10M	6605555	5723	PUR	•	IP67
	RSM-RKM5723-15M	6605556	5723	PUR	•	IP67
	RSM-RKM5723-30M	6605559	5723	PUR	•	IP67
	WSM5723-6M	6606055	5723	PUR	•	IP67
	WSM5723-10M	6606057	5723	PUR	•	IP67
	WSM5723-15M	6606058	5723	PUR	•	IP67
	WKM5723-6M	6605314	5723	PUR	•	IP67
	WKM5723-10M	6605316	5723	PUR	•	P67
	WKM5723-15M	6605317	5723	PUR	•	IP67
	WSM-WKM5723-0.3 M	6605660	5723	PUR	•	IP67
	WSM-WKM5723-0.5 M	6605661	5723	PUR	•	IP67
	WSM-WKM5723-1M	6605662	5723	PUR	•	IP67
	WSM-WKM5723-2M	6605664	5723	PUR	•	IP67
	WSM-WKM5723-4M	6605667	5723	PUR	•	IP67
	WSM-WKM5723-6M	6605669	5723	PUR	•	IP67
	WSM-WKM5723-10M	6605671	5723	PUR	•	IP67
	WSM-WKM5723-15M	6605672	5723	PUR	•	IP67
	WSM-WKM5723-30M	6605675	5723	PUR	•	IP67

A1

Vorkonfektionierte Buskabel für CAN (DeviceNet™, CANopen) open connector (OC) Premoulded Bus Cables for CAN (DeviceNet™, CANopen) open connector (OC)

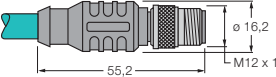
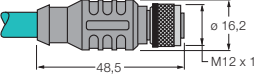
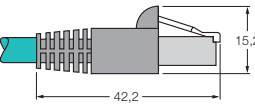
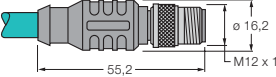
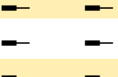
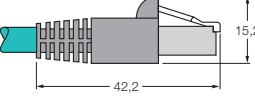
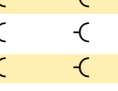
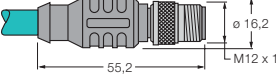
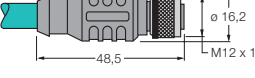
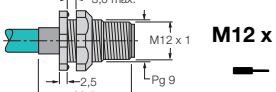
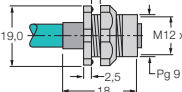
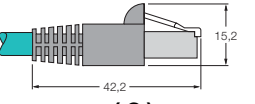
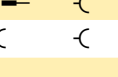
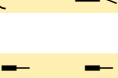
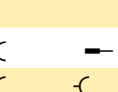
Konfektionierbare Steckverbinder siehe Seite A3 – 12
Field wireable connectors see page A3 – 12

Abmessungen/Bauform Dimensions/Housing style [mm]	Anschluss Connection	Steckverbinder Ausführung/ Maßbild Connector type/ dimension drawing	Kabellänge Cable length [m]	
 (A)  1 = BK (V -) 2 = BU (CAN_L) 3 = Bare (Shield) 4 = WH (CAN_H) 5 = RD (V +)	        	(A) (A) (A) (A) (A) (A) (A) (A) (A)	0,5 1 2 0,5 1 2 0,5 1 2	
 (A)  (B)  (C) M12 x 1 M12 x 1  1 = shield 2 = RD (V +) 3 = BK (V -) 4 = WH (CAN_H) 5 = BU (CAN_L) 	     	(A) + (B) (A) + (B) (A) + (B) (A) + (C) (A) + (C) (A) + (C)	0,5 1 2 0,5 1 2	
 (A)  (D) 7/8"  1 = shield 2 = RD (V +) 3 = BK (V -) 4 = WH (CAN_H) 5 = BU (CAN_L)	     	(A) + (D) (A) + (D) (A) + (D) (A) + (D) (A) + (D) (A) + (D)	0,5 1 2 0,5 1 2	
 (A)  (E) 7/8"  1 = shield 2 = RD (V +) 3 = BK (V -) 4 = WH (CAN_H) 5 = BU (CAN_L)	     	(A) + (E) (A) + (E) (A) + (E) (A) + (E) (A) + (E) (A) + (E)	0,5 1 2 0,5 1 2	

Typenbezeichnung Type	Ident-Nr. Ident No.	Kabeltyp Cable type	Material Kabelmantel Material cable jacket	Schleppkettenfähig Suited to trailing applications	Schutzart Degree of protection OC / M12
CBC5-572-0.5M	6606064	572	PVC	–	IP20 / –
CBC5-572-1M	6602545	572	PVC	–	IP20 / –
CBC5-572-2M	6606065	572	PVC	–	IP20 / –
CBC5-5711-0,5M	6606091	5711	PVC	–	IP20 / –
CBC5-5711-1M	6606092	5711	PVC	–	IP20 / –
CBC5-5711-2M	6606093	5711	PVC	–	IP20 / –
CBC5-5723-0,5M	6606097	5723	PUR	•	IP20 / –
CBC5-5723-1M	6606098	5723	PUR	•	IP20 / –
CBC5-5723-2M	6606099	5723	PUR	•	IP20 / –
RSC-CBC5-572-0.5M	6602737	572	PVC	–	IP20 / IP67
RSC-CBC5-572-1M	6606133	572	PVC	–	IP20 / IP67
RSC-CBC5-572-2M	6602340	572	PVC	–	IP20 / IP67
RKC-CBC5-572-0.5M	6606103	572	PVC	–	IP20 / IP67
RKC-CBC5-572-1M	6606104	572	PVC	–	IP20 / IP67
RKC-CBC5-572-2M	6606105	572	PVC	–	IP20 / IP67
RSM-CBC5-5711-0.5M	6606234	5711	PVC	–	IP20 / IP67
RSM-CBC5-5711-1M	6606235	5711	PVC	–	IP20 / IP67
RSM-CBC5-5711-2M	6606236	5711	PVC	–	IP20 / IP67
RSM-CBC5-5723-0.5M	6606240	5723	PUR	•	IP20 / IP67
RSM-CBC5-5723-1M	6606241	5723	PUR	•	IP20 / IP67
RSM-CBC5-5723-2M	6606242	5723	PUR	•	IP20 / IP67
RKM-CBC5-5711- 0.5M	6606195	5711	PVC	–	IP20 / IP67
RKM-CBC5-5711-1M	6606196	5711	PVC	–	IP20 / IP67
RKM-CBC5-5711-2M	6606197	5711	PVC	–	IP20 / IP67
RKM-CBC5-5723-0.5M	6606201	5723	PUR	•	IP20 / IP67
RKM-CBC5-5723-1M	6606202	5723	PUR	•	IP20 / IP67
RKM-CBC5-5723-2M	6606203	5723	PUR	•	IP20 / IP67

Vorkonfektionierte Buskabel für Ethernet

Premoulded Bus Cables for Ethernet

Abmessungen/Bauform Dimensions/Housing style	Anschluss Connection	Steckverbinderausführung/ Maßbild Connector type/ dimension drawing	Kabellänge Cable length	
[mm]			[m]	
 (A)  (B)  (C)	M12 x 1  1 = WH/BU 5 = WH/GN (RX+) 2 = WH/BN 6 = WH/OG (TX+) 3 = BN 7 = BU 4 = OG (TX-) 8 = GN (RX-)	 (A) (A) (A)	6	
			10	
			15	
	M12 x 1  1 = WH/BU 5 = WH/GN (RX+) 2 = WH/BN 6 = WH/OG (TX+) 3 = BN 7 = BU 4 = OG (TX-) 8 = GN (RX-)	 (B) (B) (B)	6	
			10	
			15	
	RJ45  1 = WH/OG (TX+) 5 = WH/BU 2 = OG (TX-) 6 = GN (RX-) 3 = WH/GN (RX+) 7 = WH/BN 4 = BU 8 = BN	 (C) (C) (C)	6	
			10	
			15	
 (A)	M12 x 1  1 = WH/BU 5 = WH/GN (RX+) 2 = WH/BN 6 = WH/OG (TX+) 3 = BN 7 = BU 4 = OG (TX-) 8 = GN (RX-)	 (A) + (A) (A) + (A) (A) + (A) (A) + (A) (A) + (A) (A) + (A) (A) + (A)	0,5	
			1	
			2	
			4	
			6	
			10	
			15	
			30	
 (C)	RJ45  1 = WH/OG (TX+) 5 = WH/BU 2 = OG (TX-) 6 = GN (RX-) 3 = WH/GN (RX+) 7 = WH/BN 4 = BU 8 = BN	 (C) + (C) (C) + (C) (C) + (C) (C) + (C) (C) + (C) (C) + (C) (C) + (C)	0,5	
			1	
			2	
			4	
			6	
			10	
			15	
			30	
 (A)  (B)  (D)  (E)  (C)	M12 x 1  1 = WH/BU 5 = WH/GN (RX+) 2 = WH/BN 6 = WH/OG (TX+) 3 = BN 7 = BU 4 = OG (TX-) 8 = GN (RX-)	 (A) + (C) (B) + (C)	0,5	
			0,5	
	M12 x 1  1 = WH/BU 5 = WH/GN (RX+) 2 = WH/BN 6 = WH/OG (TX+) 3 = BN 7 = BU 4 = OG (TX-) 8 = GN (RX-)	 (D) (E)	0,5	
			0,5	
	M12 x 1  1 = WH/BU 5 = WH/GN (RX+) 2 = WH/BN 6 = WH/OG (TX+) 3 = BN 7 = BU 4 = OG (TX-) 8 = GN (RX-)	 (A) + (D) (A) + (E)	0,5	
			0,5	
	RJ45  1 = WH/OG (TX+) 5 = WH/BU 2 = OG (TX-) 6 = GN (RX-) 3 = WH/GN (RX+) 7 = WH/BN 4 = BU 8 = BN	 (C) + (D) (C) + (E)	0,5	
			0,5	

Typenbezeichnung Type	Ident-Nr. Ident No.	Kabeltyp Cable type	Material Kabelmantel Material cable jacket	Schleppkettenfähig Suited to trailing applications	Schutzart Degree of protection
					RJ45 / M12
RSS-841-6M	6603696	841	PVC	•	IP67 / –
RSS-841-10M	6603697	841	PVC	•	IP67 / –
RSS-843-15M	6611000	843	PVC	–	IP67 / –
RKS-841-6M	6603699	841	PVC	•	IP67 / –
RKS-841-10M	6603700	841	PVC	•	IP67 / –
RKS-843-15M	6611001	843	PVC	–	IP67 / –
RJ45S-841-6M	6603710	841	PVC	•	IP20 / –
RJ45S-841-10M	6603711	841	PVC	•	IP20 / –
RJ45S-843-15M	6611004	843	PVC	–	IP20 / –
RSS-RSS-841-0,5M	6603702	841	PVC	•	IP67 / IP67
RSS-RSS-841-1M	6603703	841	PVC	•	IP67 / IP67
RSS-RSS-841-2M	6603704	841	PVC	•	IP67 / IP67
RSS-RSS-841-4M	6603705	841	PVC	•	IP67 / IP67
RSS-RSS-841-6M	6603706	841	PVC	•	IP67 / IP67
RSS-RSS-841-10M	6603707	841	PVC	•	IP67 / IP67
RSS-RSS-843-15M	6611002	843	PVC	–	IP67 / IP67
RSS-RSS-843-30M	6611003	843	PVC	–	IP67 / IP67
RJ45S-RJ45S-841-0,5M	6603713	841	PVC	•	IP20 / IP20
RJ45S-RJ45S-841-1M	6603714	841	PVC	•	IP20 / IP20
RJ45S-RJ45S-841-2M	6603715	841	PVC	•	IP20 / IP20
RJ45S-RJ45S-841-4M	6603716	841	PVC	•	IP20 / IP20
RJ45S-RJ45S-841-6M	6603717	841	PVC	•	IP20 / IP20
RJ45S-RJ45S-841-10M	6603718	841	PVC	•	IP20 / IP20
RJ45S-RJ45S-843-15M	6611005	843	PVC	–	IP20 / IP20
RJ45S-RJ45S-843-30M	6611006	843	PVC	–	IP20 / IP20
RSS-RJ45S-841-0,5M	6603721	841	PVC	•	IP67 / IP20
RKS-RJ45S-841-0,5M	6603722	841	PVC	•	IP67 / IP20
FSSD-841-0,5M	6603723	841	PVC	•	IP67 / –
FKSD-841-0,5M	6603724	841	PVC	•	IP67 / –
RSS-FSSD-841-0,5M	6603725	841	PVC	•	IP67 / IP67
RSS-FKSD-841-0,5M	6603726	841	PVC	•	IP67 / IP67
RJ45S-FSSD-841-0,5M	6603727	841	PVC	•	IP20 / IP67
RJ45S-FKSD-841-0,5M	6603728	841	PVC	•	IP20 / IP67

A1

Vorkonfektionierte Versorgungskabel, 5 x 1,5 mm², Typ 52

Premoulded Power Cables, 5 x 1,5 mm², Type 52

Konfektionierbare Steckverbinder siehe Seite A4 – 4
Field wireable connectors see page A4 – 4

Abmessungen/Bauform Dimensions/Housing style	Anschluss Connection	Steckverbinder Ausführung/ Maßbild Connector type/ dimension drawing	Kabellänge Cable length	
[mm]			[m]	
Kabel-Meterware Bulk cable		–	30	
		–	150	
		–	500	
(A) (B) 7/8" 1 = BK (GND) 2 = BU (GND) 3 = GN/YE (PE) 4 = BN (U_B) 5 = WH (U_L)		(A) (A) (A)	6 10 15	
		(B) (B) (B)	6 10 15	
		(A) + (B) (A) + (B) (A) + (B) (A) + (B) (A) + (B) (A) + (B) (A) + (B) (A) + (B)	0,3 0,5 1 2 4 6 10 15 30	
(C) (D) 7/8" 1 = BK (GND) 2 = BU (GND) 3 = GN/YE (PE) 4 = BN (U_B) 5 = WH (U_L)		(C) (C) (C)	6 10 15	
		(D) (D) (D)	6 10 15	
		(C) + (D) (C) + (D) (C) + (D) (C) + (D) (C) + (D) (C) + (D) (C) + (D) (C) + (D)	0,3 0,5 1 2 4 6 10 15 30	

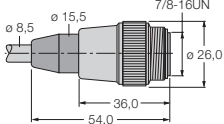
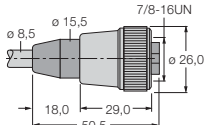
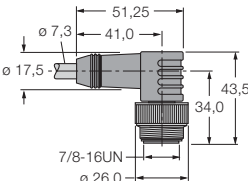
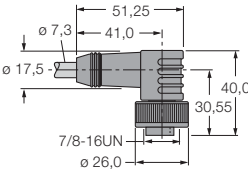
	Typenbezeichnung Type	Ident-Nr. Ident No.	Kabeltyp Cable type	Material Kabelmantel Material cable jacket	Schleppkettenfähig Suited to trailing applications	Schutzart Degree of protection
	KABEL-PDP-52-30M	6604701	52	PUR	•	–
	KABEL-PDP-52-150M	6604703	52	PUR	•	–
	KABEL-PDP-52-500M	6604706	52	PUR	•	–
	RSM52-6M	6914142	52	PUR	•	IP67
	RSM52-10M	6914143	52	PUR	•	IP67
	RSM52-15M	6914144	52	PUR	•	IP67
	RKM52-6M	6914145	52	PUR	•	IP67
	RKM52-10M	6914146	52	PUR	•	IP67
	RKM52-15M	6914147	52	PUR	•	IP67
	RKM52-0,3-RSM52	6604743	52	PUR	•	IP67
	RKM52-0,5-RSM52	6914148	52	PUR	•	IP67
	RKM52-1-RSM52	6914149	52	PUR	•	IP67
	RKM52-2-RSM52	6914150	52	PUR	•	IP67
	RKM52-4-RSM52	6914151	52	PUR	•	IP67
	RKM52-6-RSM52	6914152	52	PUR	•	IP67
	RKM52-10-RSM52	6914153	52	PUR	•	IP67
	RKM52-15-RSM52	6914154	52	PUR	•	IP67
	RKM52-30-RSM52	6914306	52	PUR	•	IP67
	WSM52-6M	6604788	52	PUR	•	IP67
	WSM52-10M	6604790	52	PUR	•	IP67
	WSM52-15M	6604791	52	PUR	•	IP67
	WKM52-6M	6604770	52	PUR	•	IP67
	WKM52-10M	6604772	52	PUR	•	IP67
	WKM52-15M	6604773	52	PUR	•	IP67
	WKM52-0,3-WSM52	6604797	52	PUR	•	IP67
	WKM52-0,5-WSM52	6604798	52	PUR	•	IP67
	WKM52-1-WSM52	6604799	52	PUR	•	IP67
	WKM52-2-WSM52	6604801	52	PUR	•	IP67
	WKM52-4-WSM52	6604804	52	PUR	•	IP67
	WKM52-6-WSM52	6604806	52	PUR	•	IP67
	WKM52-10-WSM52	6604808	52	PUR	•	IP67
	WKM52-15-WSM52	6604809	52	PUR	•	IP67
	WKM52-30-WSM52	6604812	52	PUR	•	IP67

A2

Vorkonfektionierte Versorgungskabel, 4 x 1,5 mm², Typ 43

Premoulded Power Cables, 4 x 1,5 mm², Type 43

Konfektionierbare Steckverbinder siehe Seite A4 – 8
Field wireable connectors see page A4 – 8

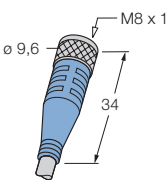
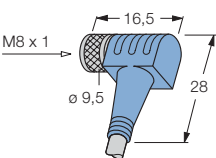
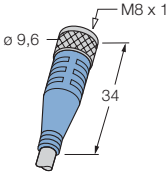
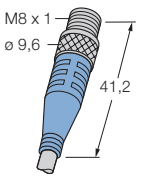
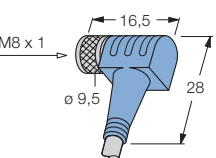
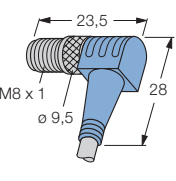
Abmessungen/Bauform Dimensions/Housing style [mm]	Anschluss Connection	Steckverbinder Ausführung/ Maßbild Connector type/ dimension drawing	Kabellänge Cable length [m]	
Kabel-Meterware Bulk cable		–	30	
		–	150	
		–	500	
 7/8"  1 = RD (Aux +) 2 = GN (E +) 3 = WH (E –) 4 = BK (Aux –)  7/8" 		(A)	6	
		(A)	10	
		(A)	15	
		(B)	6	
		(B)	10	
		(B)	15	
		(A) + (B)	0,3	
		(A) + (B)	0,5	
		(A) + (B)	1	
		(A) + (B)	2	
		(A) + (B)	4	
		(A) + (B)	6	
		(A) + (B)	10	
		(A) + (B)	15	
 7/8"  1 = RD (Aux +) 2 = GN (E +) 3 = WH (E –) 4 = BK (Aux –)  7/8" 		(C)	6	
		(C)	10	
		(C)	15	
		(D)	6	
		(D)	10	
		(D)	15	
		(C) + (D)	0,3	
		(C) + (D)	0,5	
		(C) + (D)	1	
		(C) + (D)	2	
		(C) + (D)	4	
		(C) + (D)	6	
		(C) + (D)	10	
		(C) + (D)	15	

	Typenbezeichnung Type	Ident-Nr. Ident No.	Kabeltyp Cable type	Material Kabelmantel Material cable jacket	Schleppkettenfähig Suited to trailing applications	Schutzart Degree of protection
	KABEL-DN-43-30M	6915800	43	PUR	•	–
	KABEL-DN-43-150M	6915802	43	PUR	•	–
	KABEL-DN-43-500M	6915805	43	PUR	•	–
	RSM43-6M	6915621	43	PUR	•	IP67
	RSM43-10M	6915622	43	PUR	•	IP67
	RSM43-15M	6915623	43	PUR	•	IP67
	RKM43-6M	6914307	43	PUR	•	IP67
	RKM43-10M	6913941	43	PUR	•	IP67
	RKM43-15M	6914310	43	PUR	•	IP67
	RKM43-0,3-RSM43	6914319	43	PUR	•	IP67
	RKM43-0,5-RSM43	6914311	43	PUR	•	IP67
	RKM43-1-RSM43	6914312	43	PUR	•	IP67
	RKM43-2-RSM43	6914313	43	PUR	•	IP67
	RKM43-4-RSM43	6914314	43	PUR	•	IP67
	RKM43-6-RSM43	6914315	43	PUR	•	IP67
	RKM43-10-RSM43	6914316	43	PUR	•	IP67
	RKM43-15-RSM43	6914317	43	PUR	•	IP67
	WSM43-6M	6915844	43	PUR	•	IP67
	WSM43-10M	6915845	43	PUR	•	IP67
	WSM43-15M	6915846	43	PUR	•	IP67
	WKM43-6M	6913940	43	PUR	•	IP67
	WKM43-10M	6913941	43	PUR	•	IP67
	WKM43-15M	6913942	43	PUR	•	IP67
	WKM43-0,3-WSM43	6913948	43	PUR	•	IP67
	WKM43-0,5-WSM43	6913949	43	PUR	•	IP67
	WKM43-1-WSM43	6913950	43	PUR	•	IP67
	WKM43-2-WSM43	6913951	43	PUR	•	IP67
	WKM43-4-WSM43	6913916	43	PUR	•	IP67
	WKM43-6-WSM43	6913918	43	PUR	•	IP67
	WKM43-10-WSM43	6913917	43	PUR	•	IP67
	WKM43-15-WSM43	6914328	43	PUR	•	IP67

A2

Vorkonfektionierte Versorgungskabel, 4 x 0,34 mm² Premoulded Power Cables 4 x 0,34 mm²

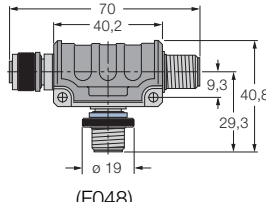
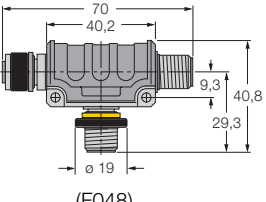
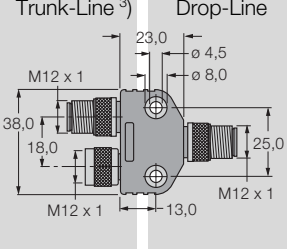
Konfektionierbare Steckverbinder siehe Seite A5 – 12
Field wireable connectors see page A5 – 12

Abmessungen/Bauform Dimensions/Housing style [mm]	Anschluss Connection	Steckverbinder Ausführung/ Maßbild Connector type/ dimension drawing	Kabellänge Cable length [m]	
 (A)	M8 x 1 	4 BK 2 WH 3 BU 1 BN 	(A)	2
			(A)	5
			(A)	10
 (B)	M8 x 1 	4 BK 2 WH 3 BU 1 BN 	(B)	2
			(B)	5
			(B)	10
 (A)	M8 x 1 	4 BK 2 WH 3 BU 1 BN 	(A) + (C)	0,15
			(A) + (C)	0,5
			(A) + (C)	1
			(A) + (C)	2
			(A) + (C)	5
 (C)	M8 x 1 	2 WH 4 BK 1 BN 3 BU 		
 (B)	M8 x 1 	4 BK 2 WH 3 BU 1 BN 	(B) + (D)	0,15
			(B) + (D)	0,5
			(B) + (D)	1
			(B) + (D)	2
			(B) + (D)	5
 (D)	M8 x 1 	2 WH 4 BK 1 BN 3 BU 		

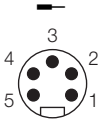
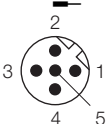
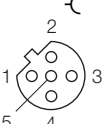
	Typenbezeichnung Type	Ident-Nr. Ident No.	Kabeltyp Cable type	Material Kabelmantel Material cable jacket	Schleppkettenfähig Suited to trailing applications	Schutzart Degree of protection
	IPSKP4-2/S90	6900323	–	PUR	–	–
	IPSKP4-5/S90	6900325	–	PUR	–	–
	IPSKP4-10/S90	6900321	–	PUR	–	–
	IPSWKP4-2/S90	6900331	–	PUR	–	–
	IPSWKP4-5/S90	6900333	–	PUR	–	–
	IPSWKP4-10/S90	6900329	–	PUR	–	–
	IPSKP4-0,15-SSP4/S90	6900334	–	PUR	–	IP67
	IPSKP4-0,5-SSP4/S90	6900320	–	PUR	–	IP67
	IPSKP4-1-SSP4/S90	6900322	–	PUR	–	IP67
	IPSKP4-2-SSP4/S90	6900324	–	PUR	–	IP67
	IPSKP4-5-SSP4/S90	6900326	–	PUR	–	IP67
	IPSWKP4-0,15-SWSP4/S90	6900327	–	PUR	–	IP67
	IPSWKP4-0,5-SWSP4/S90	6900328	–	PUR	–	IP67
	IPSWKP4-1-SWSP4/S90	6900330	–	PUR	–	IP67
	IPSWKP4-2-SWSP4/S90	6900332	–	PUR	–	IP67
	IPSWKP4-5-SWSP4/S90	6900319	–	PUR	–	IP67

T-Stücke/Y-Stücke für PROFIBUS-DP

T-pieces/Y-pieces for PROFIBUS-DP

Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
		Fig. (Fxxx)		
(F030) (F048) 	T-Stück für Bus, komplett geschirmt, 12 MBit/s, direkte Kopplung mehrerer T-Stücke nicht möglich Bus tee, completely shielded, 12 MBit/s, direct coupling of multiple tees not possible	2 x M12 (F048) 1 x M12 (F030)	RKSWs4.5[5]-2RSSWS	6999021
(F030) (F008) 	T-Stück für Bus, komplett geschirmt, 12 MBit/s, direkte Kopplung mehrerer T-Stücke möglich Bus tee, completely shielded, 12 MBit/s, direct coupling of multiple tees possible	1 x M12 (F008) 1 x M12 (F030) 1 x M12 (F048)	RKSW-2RSSW45-0001	6914180
Trunk-Line ⁹⁾ Drop-Line 	Y-Stück für Bus, komplett geschirmt, 12 MBit/s, Y piece for bus, completely shielded, 12 MBit/s	2 x M12 (F048) 1 x M12 (F030)	VB2-FSW-FKW-FSW45	6996009

Anschlussbelegung Pin Configuration

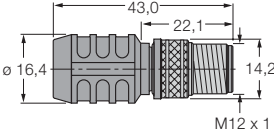
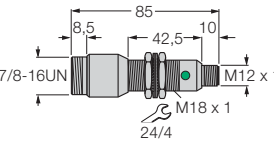
(F006A)	(F008) ¹⁾	(F030) ¹⁾	
 1 = n. c. 2 = GND 3 = n. c. 4 = U_B 5 = n. c.	 1 = n. c. 2 = Bus - A 3 = n. c. 4 = Bus - B 5 = Shield	 1 = 5 VDC 2 = Bus - A 3 = GND 4 = Bus - B 5 = Shield	

¹⁾ Invers codiert nach PNO-Richtlinie / Reverse-keyed acc. to PNO guidelines

Abschlusswiderstände für PROFIBUS-DP Terminating Resistors for PROFIBUS-DP

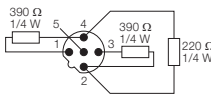
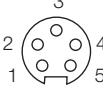
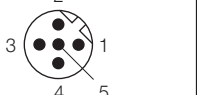
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Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
	Passiver Abschlusswiderstand Passive terminating resistor	1 x M12 (F035)	RSS4.5-PDP-TR	6601590
	Aktiver Abschlusswiderstand Active terminating resistor	1 x M12 (F035) 1 x 7/8" (F006A)	PDP-TRA	6825346

A3

Anschlussbelegung Pin Configuration

(F035) ¹⁾	(F037)	(F048) ¹⁾	
 1 = 5 VDC²⁾ 2 = Bus - A 3 = GND 4 = Bus - B 5 = Shield	 1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L	 1 = 5 VDC 2 = Bus - A 3 = GND 4 = Bus - B 5 = Shield	

²⁾ Nur an Bus-Kupplung / Female bus connector only

³⁾ Anschluss von zwei konfektionierbaren Steckverbindern an der Trunk-Line nicht möglich/Connection of two field wireable connectors to the trunk line not possible

Konfektionierbare Steckverbinder für PROFIBUS-DP
Field wireable Connectors for PROFIBUS-DP

Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
	Konfektionierbare M12-Kupplung, gerade, schirmbar Field wireable female M12 connector, straight, shieldable	1 x M12 (F034)	BMWS 8151-8,5	6904721
	Konfektionierbarer M12-Stecker, gerade, schirmbar Field wireable male M12 connector, straight, shieldable	1 x M12 (F008)	BMSWS 8151-8,5	6904722
	Konfektionierbare M12-Kupplung, abgewinkelt, schirmbar Field wireable female M12 connector, right-angle, shieldable	1 x M12 (F034)	BMWS 8251-8,5	6904723
	Konfektionierbarer M12-Stecker, abgewinkelt, schirmbar Field wireable male M12 connector, right-angle, shieldable	1 x M12 (F008)	BMSWS 8251-8,5	6904724

Anschlussbelegung Pin Configuration	(F008) ¹⁾	(F034) ¹⁾	(F034B) ¹⁾	
	1 = n. c. 2 = Bus - A 3 = n. c. 4 = Bus - B 5 = Shield	1 = n. c. 2 = Bus - A 3 = n. c. 4 = Bus - B 5 = Shield	1 = n. c. 2 = Bus - A 3 = n. c. 4 = Bus - B 5 = Shield	

Flansche für PROFIBUS-DP Flange Connectors for PROFIBUS-DP

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Automation

Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
	Flansch, M12-Kupplung, frontseitig schraubbar, invers codiert, 0,5 m Litze M12 female flange connector, front panel screw mounting, reverse-keyed, 0.5 m litz wire	1 x M12 (F034)	FKW4.54-0,5	8016042
	Flansch, M12-Kupplung, frontseitig schraubbar, invers codiert, drehbar, 0,5 m Litze M12 female connector flange connector, rotatable, front panel screw mounting, reverse-keyed, 0.5 m litz wire	1 x M12 (F034)	FKDW4.54-0,5	8015777
	Flansch, M12-Kupplung, Rückwandmontage, invers codiert, 0,5 m Litze M12 female flange connector, back panel screw mounting, reverse-keyed, 0.5 m litz wire	1 x M12 (F034B)	FKFDW4.54-0,5	8016041
	Flansch, M12-Kupplung, frontseitig schraubbar, invers codiert M12 female flange connector, front panel screw mounting, reverse-keyed	1 x M12 (F034)	FKW5L	8016718

A3

Flansche für PROFIBUS-DP

Flange Connectors for PROFIBUS-DP

Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
	Flansch, M12-Stecker, frontseitig schraubbar, invers codiert, 0,5 m Litze M12 male flange connector, front panel screw mounting, reverse-keyed, 0.5 m litz wire	1 x M12 (F008)	FSW4.54-0,5	8016038
	Flansch, M12-Stecker, frontseitig schraubbar, invers codiert, drehbar, 0,5 m Litze M12 male flange connector, rotatable, front panel screw mounting, reverse-keyed, 0.5 m litz wire	1 x M12 (F008)	FSDW4.54-0,5	8015776
	Flansch, M12-Stecker, Rückwandmontage, invers codiert, 0,5 m Litze M12 male flange connector, back panel screw mounting, reverse-keyed, 0.5 m litz wire	1 x M12 (F008B)	FSFDW4.54-0,5	8016043
	Flansch, M12-Stecker, frontseitig schraubbar, invers codiert M12 male flange connector, rotatable, front panel screw mounting, reverse-keyed	1 x M12 (F008)	FSW5L	8016717

Anschlussbelegung Pin Configuration

(F008) ¹⁾	(F008B) ¹⁾	(F034) ¹⁾	
1 = n. c. 2 = Bus - A 3 = n. c. 4 = Bus - B 5 = Shield	1 = n. c. 2 = Bus - A 3 = n. c. 4 = Bus - B 5 = Shield	1 = n. c. 2 = Bus - A 3 = n. c. 4 = Bus - B 5 = Shield	

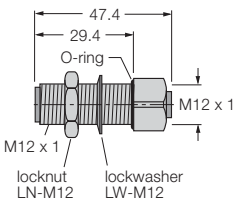
¹⁾ Invers codiert nach PNO-Richtlinie / Reverse-keyed acc. to PNO guidelines

Durchführungen für PROFIBUS-DP

Feed-through Receptacles for PROFIBUS-DP

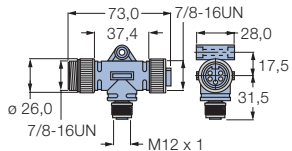
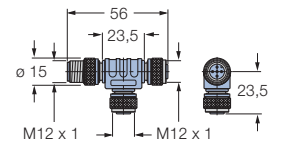
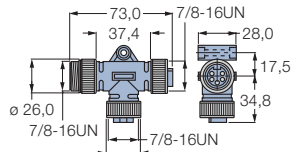
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Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
		Fig. (Fxxx)		
	M12-Durchführung, gerader Stecker/Kupplung, für invers codierte M12-Buskabel Feed-through receptacle, M12, straight male/female connector, for premoulded, reverse-keyed M12 bus cables	1 x M12 (F008) 1 x M12 (F034)	FKW-FSW-45-M12	6602309

A3

T-Stücke für CAN (DeviceNet™, CANopen)
T-pieces for CAN (DeviceNet™, CANopen)

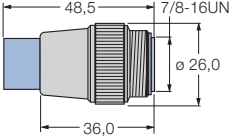
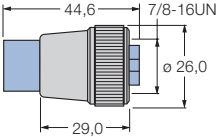
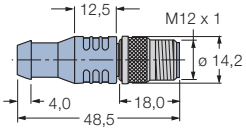
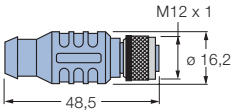
Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
	T-Stück (7/8"/M12) für Bus und Versorgung Tee (7/8"/M12) for bus and power	1 x 7/8" (F006) 1 x 7/8" (F037) 1 x M12 (F032)	RSM-FKM-RKM57	6602392
	T-Stück (M12/M12) für Bus und Versorgung Tee (M12/M12) for bus and power	2 x M12 (F032) 1 x M12 (F008)	FSM-2FKM57	8011661
	T-Stück (7/8"/7/8") für Bus und Versorgung Tee (7/8"/7/8") for bus and power	1 x 7/8" (F006) 2 x 7/8" (F037)	RSM-2RKM57	6602007

Anschlussbelegung Pin Configuration	(F006)	(F031)	(F032)	(F037)
	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L

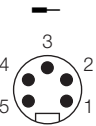
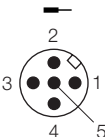
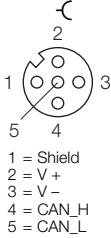
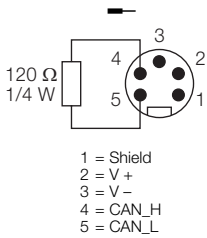
Y-Stücke für CAN (DeviceNet™, CANopen)
Y-pieces for CAN (DeviceNet™, CANopen)

Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
Trunk-Line 1) Drop-Line	Y-Stück für Bus ¹) Y piece for bus ¹)	2 x M12 (F032) 1 x M12 (F031)	VB2-FKM-FKM-FSM57	6602331
	Y-Stück für Bus Y piece for bus	2 x M12 (F032) 1 x M12 (F031)	VB2-FKM-RKC-RSC572-0,5M-0,5M	6602490
Trunk-Line 1) Drop-Line	Y-Stück für Bus und Versorgung ¹) Y piece for bus and power ¹)	2 x M12 (F032) 1 x M12 (F031)	VB2-RKC572-1M-FKM-FSM	6996011
	Y-Stück für Bus und Versorgung Y piece for bus and power	2 x M12 (F032) 1 x M12 (F031)	VB2-FKM-FKM-RSC572-1M	6602613

Abschlusswiderstände für CAN (DeviceNet™, CANopen)
Terminating Resistors for CAN (DeviceNet™, CANopen)

Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
	Abschlusswiderstand (Stecker) Terminating resistor (male connector)	1 x 7/8" (F036A)	RSM57-TR2	6602011
	Abschlusswiderstand (Kupplung) Terminating resistor (female connector)	1 x 7/8" (F036B)	RKM57-TR2	6602065
	Abschlusswiderstand (Stecker) Terminating resistor (male connector)	1 x M12 (F038A)	RSE57-TR2	6602308
	Abschlusswiderstand (Kupplung) Terminating resistor (female connector)	1 x M12 (F038B)	RKE57-TR2	6602629

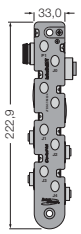
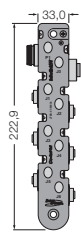
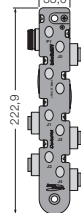
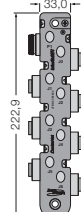
Anschlussbelegung
Pin Configuration

	(F006)	(F031)	(F032)	(F036A)
	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L

Passiv-Verteiler für CAN (DeviceNet™, CANopen) Junction Tees for CAN (DeviceNet™, CANopen)

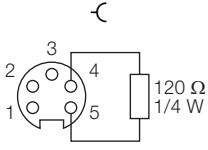
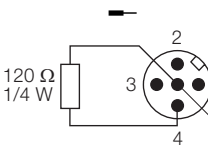
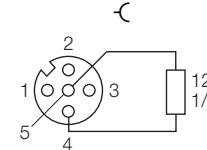
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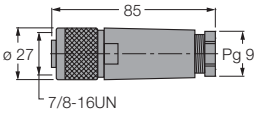
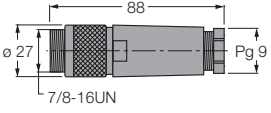
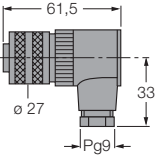
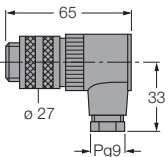
Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
	4fach-Passiv-Verteiler, IP67 4-port passive multiport junction, IP67	1 x 7/8" (F006) 1 x 7/8" (F037) 4 x M12 (F032)	JTBS57-E434	6603554
	6fach-Passiv-Verteiler, IP67 6-port passive multiport junction, IP67	1 x 7/8" (F006) 1 x 7/8" (F037) 6 x M12 (F032)	JTBS57-E634	6603555
	4fach-Passiv-Verteiler, IP67 4-port passive multiport junction, IP67	1 x 7/8" (F006) 5 x 7/8" (F037)	JTBS57-M434	6603556
	6fach-Passiv-Verteiler, IP67 6-port passive multiport junction, IP67	1 x 7/8" (F006) 7 x 7/8" (F037)	JTBS57-M634	6603557

A3

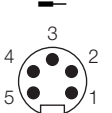
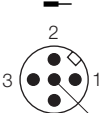
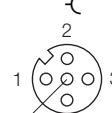
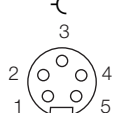
Anschlussbelegung Pin Configuration

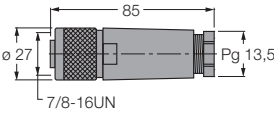
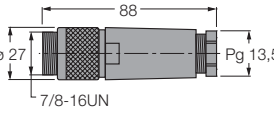
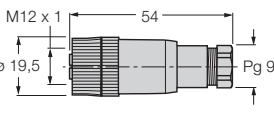
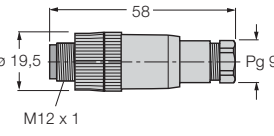
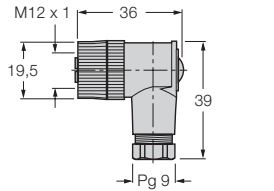
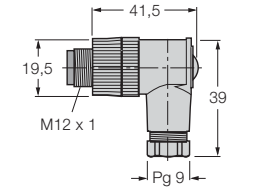
(F036B)	(F038A)	(F038B)	
 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	

Konfektionierbare Steckverbinder für CAN (DeviceNet™, CANopen) Field wireable Connectors for CAN (DeviceNet™, CANopen)

Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
	Konfektionierbare 7/8"-Kupplung, gerade, Kabelauslass Pg9, max. Kabeldurchmesser: 6...8 mm Field wireable female 7/8" connector, straight, cable outlet Pg9, max. cable diameter: 6...8 mm	1 x 7/8" (F037)	B4151-0/9	6904717
	Konfektionierbarer 7/8"-Stecker, gerade, Kabelauslass Pg9, max. Kabeldurchmesser: 6...8 mm Field wireable male 7/8" connector, straight, cable outlet Pg9, max. cable diameter: 6...8 mm	1 x 7/8" (F006)	BS4151-0/9	6904718
	Konfektionierbare 7/8"-Kupplung, abgewinkelt, Kabelauslass Pg9, max. Kabeldurchmesser: 6...8 mm Field wireable female 7/8" connector, right-angle, cable outlet Pg9, max. cable diameter: 6...8 mm	1 x 7/8" (F037)	B4251-0/9	6901113
	Konfektionierbarer 7/8"-Stecker, abgewinkelt, Kabelauslass Pg9, max. Kabeldurchmesser: 6...8 mm Field wireable male 7/8" connector, right-angle, cable outlet Pg9 max. cable diameter: 6...8 mm	1 x 7/8" (F006)	BS4251-0/9	6901112

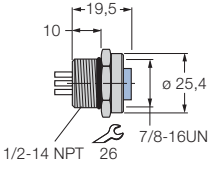
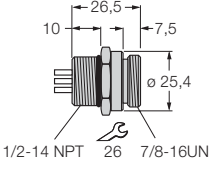
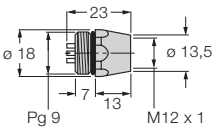
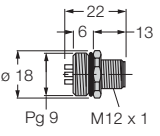
Anschlussbelegung Pin Configuration

	(F006)	(F031)	(F032)	(F037)
	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L

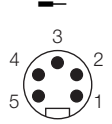
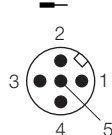
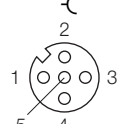
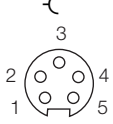
Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
		Fig. (Fxxx)		
	Konfektionierbare 7/8"-Kupplung, gerade, Kabelauslass Pg13,5, max. Kabeldurchmesser: 10...14 mm Field wireable female 7/8" connector, straight, cable outlet Pg13,5, max. cable diameter: 10...14 mm	1 x 7/8" (F037)	B4151-0/13,5	6904715
	Konfektionierbarer 7/8"-Stecker, gerade, Kabelauslass Pg13,5, max. Kabeldurchmesser: 10...14 mm Field wireable male 7/8" connector, straight, cable outlet Pg13,5, max. cable diameter: 10...14 mm	1 x 7/8" (F006)	BS4151-0/13,5	6904716
	Konfektionierbare M12 x 1-Kupplung, gerade, Kabelauslass Pg9, max. Kabeldurchmesser: 6...8 mm Field wireable female M12 x 1 connector, straight, cable outlet Pg9, max. cable diameter: 6...8 mm	1 x M12 (F032)	B8151-0/9	6904604
	Konfektionierbarer M12 x 1-Stecker, gerade, Kabelauslass Pg9, max. Kabeldurchmesser: 6...8 mm Field wireable male M12 x 1 connector, straight, cable outlet Pg9, max. cable diameter: 6...8 mm	1 x M12 (F031)	BS8151-0/9	6904613
	Konfektionierbare M12 x 1-Kupplung, abgewinkelt, Kabelauslass Pg9, max. Kabeldurchmesser: 6...8 mm Field wireable female M12 x 1 connector, right-angled, cable outlet Pg9, max. cable diameter: 6...8 mm	1 x M12 (F032)	B8251-0/9	6904603
	Konfektionierbarer M12 x 1-Stecker, abgewinkelt, Kabelauslass Pg9, max. Kabeldurchmesser: 6...8 mm Field wireable male M12 x 1 connector, right-angled, cable outlet Pg9, max. cable diameter: 6...8 mm	1 x M12 (F031)	BS8251-0/9	6904615

A3

Flansche für CAN (DeviceNet™, CANopen) Flange Connectors for CAN (DeviceNet™, CANopen)

Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
	Lötbare 7/8"-Kupplung, gerade Kupplung, zur Verwendung mit dünnen und mittleren CAN-Kabeln 7/8" field solderable receptacle, straight female connector, for use with CAN thin and mid cables	1 x 7/8" (F037)	RKF57	6602217
	Lötbarer 7/8"-Stecker, gerader Stecker, zur Verwendung mit dünnen und mittleren CAN-Kabeln 7/8" field solderable receptacle, straight male connector, for use with CAN thin and mid cables	1 x 7/8" (F006)	RSF57	6902342
	Lötbare M12-Kupplung, gerade Kupplung, zur Verwendung mit dünnen CAN-Kabeln M12 field solderable receptacle, straight female connector, for use with CAN thin cables	1 x M12 (F032)	FK57	6602216
	Lötbarer M12-Stecker, gerader Stecker, zur Verwendung mit dünnen CAN-Kabeln M12 field solderable receptacle, straight male connector, for use with CAN thin cables	1 x M12 (F031)	FS57	6902314

Anschlussbelegung Pin Configuration

	(F006)	(F031)	(F032)	(F037)
	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	 1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L

Durchführungen für CAN (DeviceNet™, CANopen) Feed-through Receptacles for CAN (DeviceNet™, CANopen)

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Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
		Fig. (Fxxx)		
	7/8"-Durchführung, gerader Stecker/ Kupplung, zur Verwendung mit vorkonfektionierten 7/8"-Kabeln 7/8" bulkhead receptacle, straight male/ female feed-thru, for use with 7/8" cordsets	1 x 7/8" (F006) 1 x 7/8" (F037)	RSF-RKF-57/22	6602218
	M12-Durchführung, gerader Stecker/ Kupplung, zur Verwendung mit vorkonfektionierten M12-Kabeln M12 bulkhead receptacle, straight male/ female feed-thru, for use with M12 cordsets	1 x M12 (F031) 1 x M12 (F032)	FKM-FS57-M12	6602223

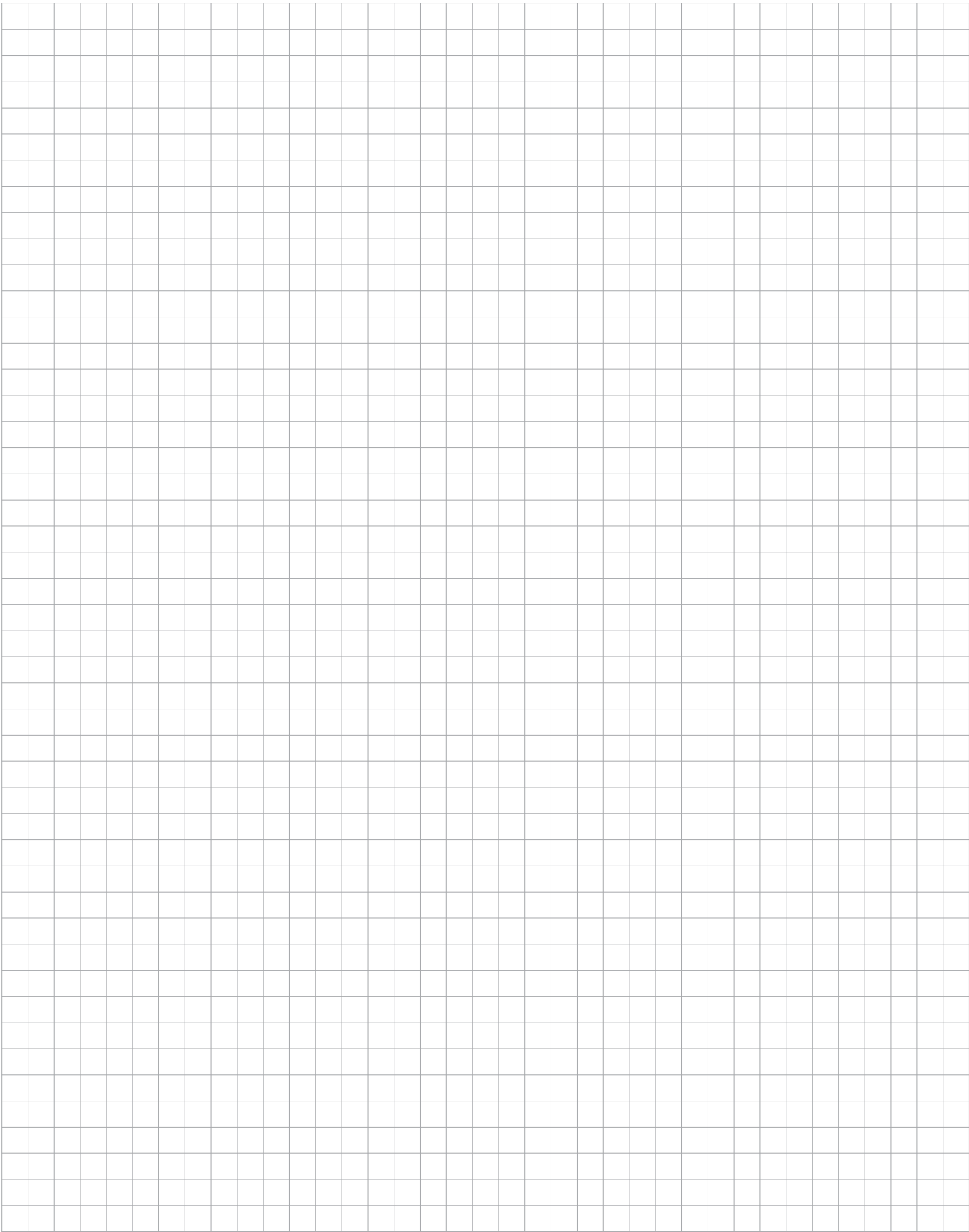
M12/RJ45-Umsetzer für Ethernet M12/RJ45 Adapter for Ethernet

Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
		Fig. (Fxxx)		
	Vierkanaliger M12/RJ45-Adapter, Schnittstelle zwischen IP20- und IP67- Umgebung Four-channel M12/RJ45-adapter, interface between IP 20 and IP67 environments	1 x M12 (F049) 1 x RJ45 (F050)	BIC-84-E424	6604474

A3

Anschlussbelegung Pin Configuration

(F049)	(F050)		
1 = n. c. 5 = RX + 2 = n. c. 6 = TX + 3 = n. c. 7 = n. c. 4 = Tx - 8 = RX -	1 = TX + 5 = n. c. 2 = TX - 6 = RX - 3 = RX + 7 = n. c. 4 = n. c. 8 = n. c.		



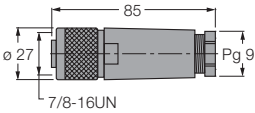
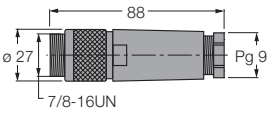
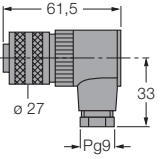
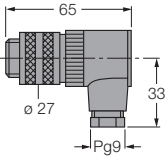
T-Stücke für Versorgungskabel, 5 x 1,5 mm², Typ 52
T-pieces for Power Cables, 5 x 1,5 mm², Type 52

Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
	T-Stück für Versorgung Power tee	2 x 7/8" (F037) 1 x 7/8" (F006B)	RSM-2RKM50	6914950

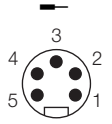
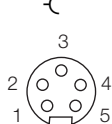
Anschlussbelegung Pin Configuration	(F006B)	(F037)	
	1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L	1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L	

Konfektionierbare Steckverbinder für Versorgungskabel, 5 x 1,5 mm², Typ 52

Field wireable Connectors for Power Cables, 5 x 1,5 mm², Type 52

Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
	Konfektionierbare 7/8"-Kupplung, gerade, Kabelauslass Pg9, max. Kabeldurchmesser: 6...8 mm Field wireable female 7/8" connector, straight, cable outlet Pg9, max. cable diameter 6...8 mm	1 x 7/8" (F037)	B4151-0/9	6904717
	Konfektionierbarer 7/8"-Stecker, gerade, Kabelauslass Pg9, max. Kabeldurchmesser: 6...8 mm Field wireable male 7/8" connector, straight, cable outlet Pg9, max. cable diameter 6...8 mm	1 x 7/8" (F006)	BS4151-0/9	6904718
	Konfektionierbare 7/8"-Kupplung, abgewinkelt, Kabelauslass Pg9, max. Kabeldurchmesser: 6...8 mm Field wireable female 7/8" connector, right-angle, cable outlet Pg9, max. cable diameter 6...8 mm	1 x 7/8" (F037)	B4251-0/9	6901113
	Konfektionierbarer 7/8"-Stecker, abgewinkelt, Kabelauslass Pg9, max. Kabeldurchmesser: 6...8 mm Field wireable male 7/8" connector, right-angle, cable outlet Pg9, max. cable diameter 6...8 mm	1 x 7/8" (F006)	BS4251-0/9	6901112

Anschlussbelegung Pin Configuration

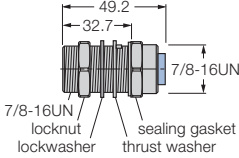
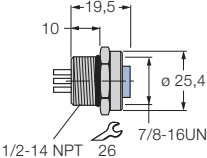
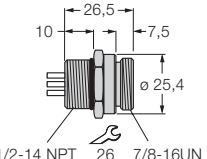
	(F006)	(F037)	
	 1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L	 1 = GND 2 = GND 3 = PE 4 = U_B 5 = U_L	

Durchführungen/Flansche für Versorgungskabel, 5 x 1,5 mm², Typ 52

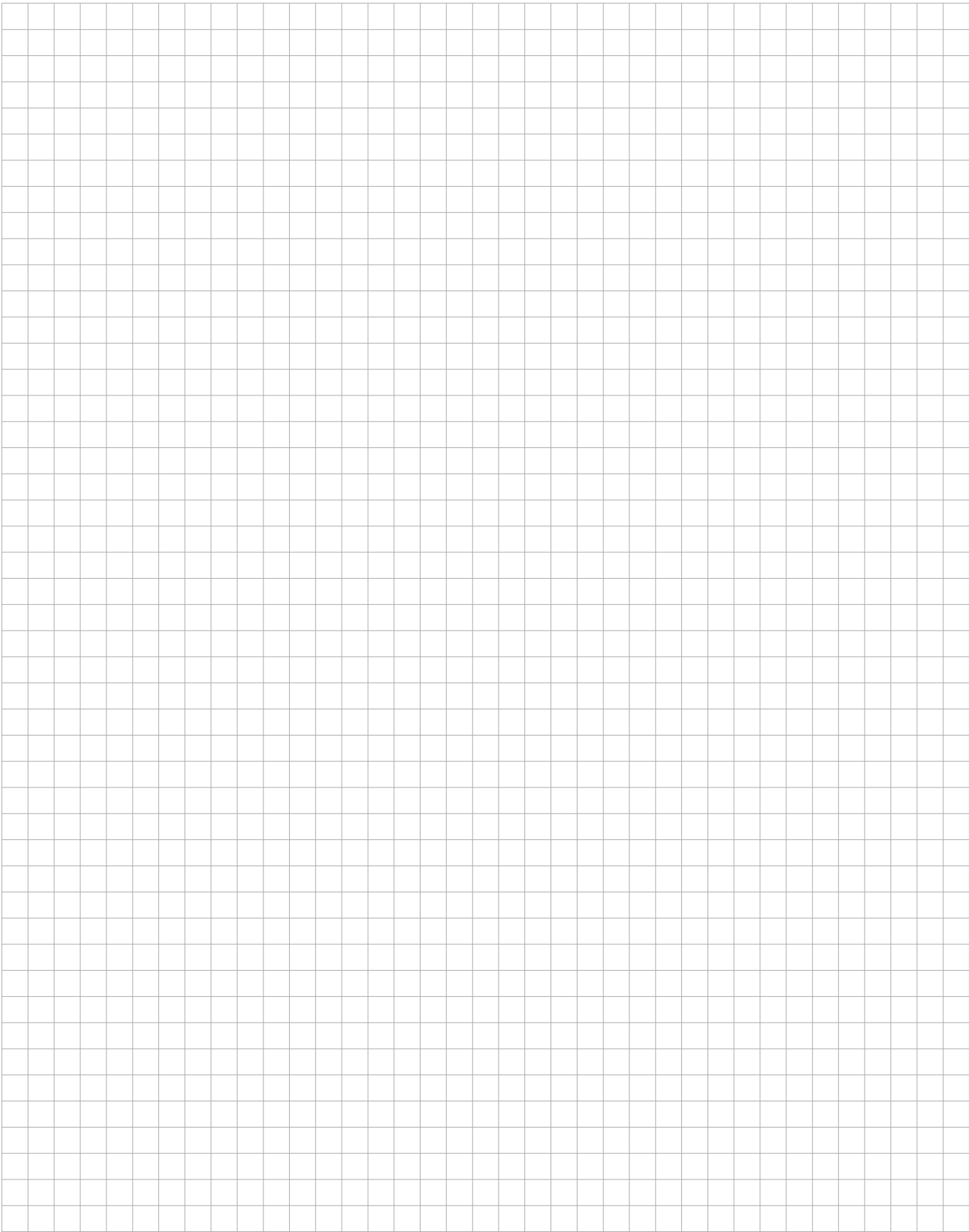
Feed-through Receptacles/Flange Connectors for Power Cables, 5 x 1,5 mm², Type 52

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Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
	7/8"-Durchführung, gerader Stecker/ Kupplung, zur Verwendung mit vor- konfektionierten 7/8"-Kabeln 7/8" bulkhead receptacle, straight male/ female feed-thru, for use with 7/8" cordsets	1 x 7/8" (F006) 1 x 7/8" (F037) Fig. (Fxxx)	RSF-RKF-57/22	6602218
	Lötbarer 7/8"-Flanschstecker 7/8" field solderable receptacle, male connector	1 x 7/8" (F006)	RSF57	6902342
	Lötbare 7/8"-Flanschkupplung 7/8" field solderable receptacle, female connector	1 x 7/8" (F037)	RKF57	6602217

A4



T-Stücke für Versorgungskabel, 4 x 1,5 mm², Typ 43
T-pieces for Power Cables, 4 x 1,5 mm², Type 43

Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
	T-Stück für Auxiliary-Power Tee for auxiliary power	1 x 7/8" (F023A) 2 x 7/8" (F023B)	RSM-2RKM40	6914828
	T-Stück für Auxiliary-Power (Keyway facing female) Tee for auxiliary power (Keyway facing female)	1 x 7/8" (F023A) 2 x 7/8" (F023B)	RKM40-RKM40-L-RSM40	6914866

Anschlussbelegung Pin Configuration	(F023A)	(F023B)	
	 1 = Aux + 2 = E + 3 = E - 4 = Aux -	 1 = Aux + 2 = E + 3 = E - 4 = Aux -	

Konfektionierbare Steckverbinder für Versorgungskabel, 4 x 1,5 mm², Typ 43

Field wireable Connectors for Power Cables, 4 x 1,5 mm², Type 43

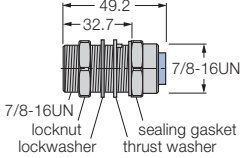
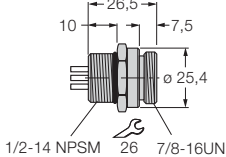
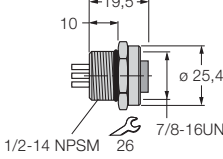
Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
		Fig. (Fxxx)		
	Konfektionierbare 7/8"-Kupplung, Kabelauslass Pg9, max. Kabeldurchmesser: 6...8 mm Field wireable 7/8" female connector, cable outlet Pg9, max. cable diameter 6...8 mm	1 x 7/8" (F023B)	B4148-0/9	6914925
	Konfektionierbarer 7/8"-Stecker, Kabelauslass Pg9, max. Kabeldurchmesser: 6...8 mm Field wireable 7/8" male connector, cable outlet Pg9, max. cable diameter 6...8 mm	1 x 7/8" (F023A)	BS4148-0/9	6914522

Anschlussbelegung Pin Configuration	(F023A)	(F023B)	
	1 = Aux + 2 = E + 3 = E - 4 = Aux -	1 = Aux + 2 = E + 3 = E - 4 = Aux -	

Durchführungen/Flansche für Versorgungskabel, 4 x 1,5 mm², Typ 43
Feed-through Receptacles/Flanged connectors for Power Cables,
4 x 1,5 mm², Type 43

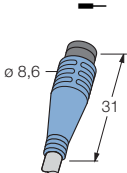
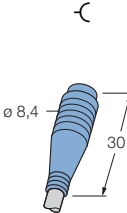
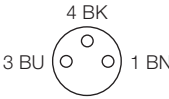
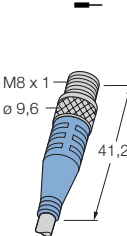
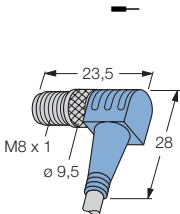
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Abmessungen Dimensions	Anwendung Application	Verbindungs- technik Connection	Typenbezeichnung Type	Ident-Nr. Ident no.
	7/8"-Durchführung, gerader Stecker/ Kupplung, zur Verwendung mit vor- konfektionierten 7/8"-Kabeln 7/8" bulkhead receptacle, straight male/ female feed-thru, for use with 7/8" cordsets	1 x 7/8" (F023A) 1 x 7/8" (F023B)	RSF-RKF-40/22	6915014
	Lötbarer 7/8"-Flanschstecker 7/8" field solderable receptacle, male connector	1 x 7/8" (F023A)	RSFL46	6914836
	Lötbare 7/8"-Flanschkupplung 7/8" field solderable receptacle, female connector	1 x 7/8" (F023B)	RKFL46	6915086

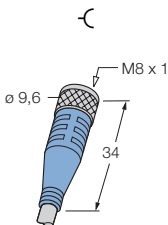
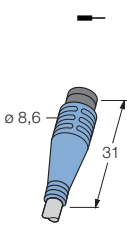
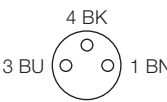
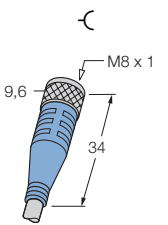
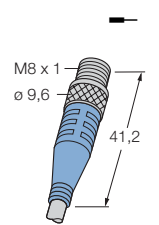
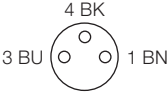
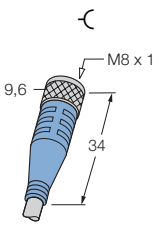
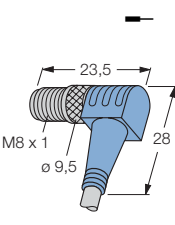
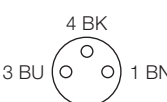
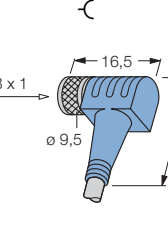
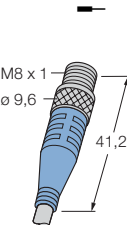
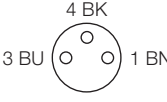
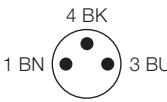
A4

Steckverbinder-Systeme für Sensoren und Aktuatoren (Ø 8 mm/M8 x 1) Connector Systems for Sensors and Actuators (Ø 8 mm/M8 x 1)

Abmessungen/Bauform Dimensions/Housing style [mm]	Anschluss Pin configuration	Leitung/Cable						
		Querschnitt Cross section [mm²]	Adernaufbau Conductor construction [mm Ø]	Länge Length [m]	Qualität Quality	Farbe Colour	Durchmesser Diameter [mm Ø]	
 Ø 8 mm		3 x 0,25	32 x 0,1	2	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	5	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	10	PUR	GY	4,4	
 Ø 8 mm		3 x 0,25	32 x 0,1	2	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	5	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	10	PUR	GY	4,4	
 M8 x 1		3 x 0,25	32 x 0,1	2	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	5	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	10	PUR	GY	4,4	
 M8 x 1		3 x 0,25	32 x 0,1	2	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	5	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	10	PUR	GY	4,4	

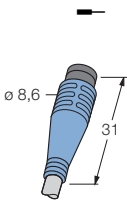
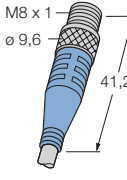
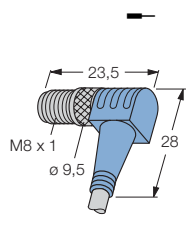
	Typenbezeichnung Type	Ident-Nr. Ident no.	Nennstrom Rated current [A]	Nenn- spannung Rated voltage [V]	Überwurfmutter Coupling nut	Umgebungstemperatur Temperature range [°C]		Schutzart Degree of protection	LED	
						Stecker Connector	Leitung Cable		U _B	┐
	SP3-2/S90	8007296	4	max. 60		-30...+90	-40...+80	IP67		
	SP3-5/S90	8007300	4	max. 60		-30...+90	-40...+80	IP67		
	SP3-10/S90	8007304	4	max. 60		-30...+90	-40...+80	IP67		
	KP3-2/S90	8007278	4	max. 60		-30...+90	-40...+80	IP67		
	KP3-5/S90	8007282	4	max. 60		-30...+90	-40...+80	IP67		
	KP3-10/S90	8007286	4	max. 60		-30...+90	-40...+80	IP67		
	SSP3-2/S90	8007350	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SSP3-5/S90	8007354	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SSP3-10/S90	8007358	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SWSP3-2/S90	8007386	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SWSP3-5/S90	8007390	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SWSP3-10/S90	8007394	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		

Steckverbinder-Systeme für Sensoren und Aktuatoren (M8 x 1 auf Ø 8 mm/M8 x 1) Connector Systems for Sensors and Actuators (M8 x 1 to Ø 8 mm/M8 x 1)

Abmessungen/Bauform Dimensions/Housing style [mm]	Anschluss Pin configuration	Leitung/Cable						
		Querschnitt Cross section [mm²]	Ademaufbau Conductor construction [mm Ø]	Länge Length [m]	Qualität Quality	Farbe Colour	Durchmesser Diameter [mm Ø]	
  M8 x 1 - Ø 8 mm	 	3 x 0,25	32 x 0,1	1	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	1,5	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	2	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	5	PUR	GY	4,4	
  M8 x 1 - M8 x 1	 	3 x 0,25	32 x 0,1	1	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	1,5	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	2	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	5	PUR	GY	4,4	
  M8 x 1 - M8 x 1	 	3 x 0,25	32 x 0,1	1	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	1,5	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	2	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	5	PUR	GY	4,4	
  M8 x 1 - M8 x 1	 	3 x 0,25	32 x 0,1	1	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	1,5	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	2	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	5	PUR	GY	4,4	

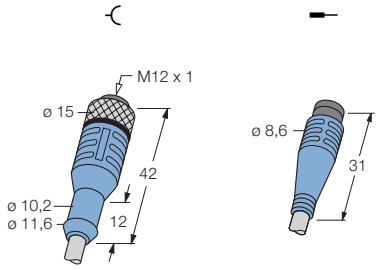
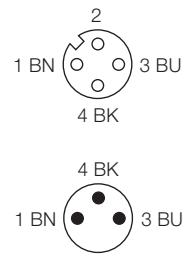
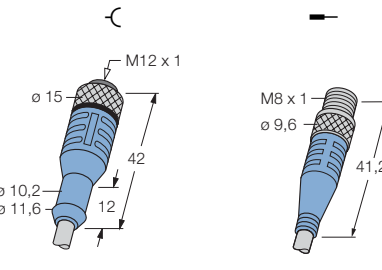
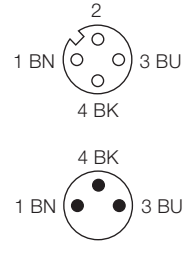
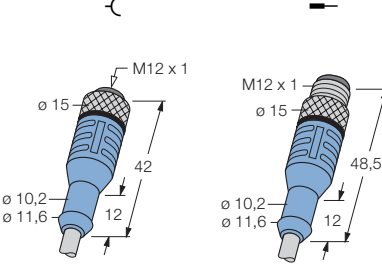
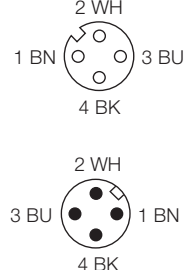
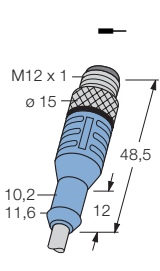
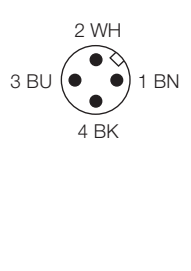
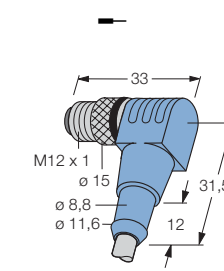
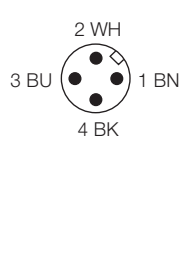
	Typenbezeichnung Type	Ident-Nr. Ident no.	Nennstrom Rated current	Nenn- spannung Rated voltage	Überwurfmutter Coupling nut	Umgebungstemperatur Temperature range [°C]		Schutzart Degree of protection	LED	
			[A]	[V]		Stecker Connector	Leitung Cable		U _B	
	SKP3-1-SP3/S90	8015474	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SKP3-1,5-SP3/S90	8024804	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SKP3-2-SP3/S90	8015478	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SKP3-5-SP3/S90	8015479	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SKP3-1-SSP3/S90	8008683	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SKP3-1,5-SSP3/S90	8008690	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SKP3-2-SSP3/S90	8008685	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SKP3-5-SSP3/S90	8008686	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SKP3-1-SWSP3/S90	8015454	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SKP3-1,5-SWSP3/S90	8024802	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SKP3-2-SWSP3/S90	8015457	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SKP3-5-SWSP3/S90	8015460	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SWKP3-1-SSP3/S90	8015408	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SWKP3-1,5-SSP3/S90	8016217	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SWKP3-2-SSP3/S90	8015456	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		
	SWKP3-5-SSP3/S90	8015459	4	max. 60	CuZn - Ni	-30...+90	-40...+80	IP67		

Steckverbinder-Systeme für Sensoren und Aktuatoren (Ø 8 mm/M8 x 1) Connector Systems for Sensors and Actuators (Ø 8 mm/M8 x 1)

Abmessungen/Bauform Dimensions/Housing style		Anschluss Pin configuration	Leitung/Cable						
[mm]			Querschnitt Cross section [mm²]	Adernaufbau Conductor construction [mm Ø]	Länge Length [m]	Qualität Quality	Farbe Colour	Durchmesser Diameter [mm Ø]	
	Ø 8 mm 	2 WH 4 BK 1 BN 3 BU 	4 x 0,25	32 x 0,1	5	PVC	GY	4,4	
			4 x 0,25	32 x 0,1	5	PUR	GY	4,4	
			4 x 0,25	32 x 0,1	10	PUR	GY	4,4	
	M8 x 1 	2 WH 4 BK 1 BN 3 BU 	4 x 0,25	32 x 0,1	2	PUR	GY	4,4	
			4 x 0,25	32 x 0,1	5	PUR	GY	4,4	
			4 x 0,25	32 x 0,1	10	PUR	GY	4,4	
	M8 x 1 	2 WH 4 BK 1 BN 3 BU 	4 x 0,25	32 x 0,1	2	PUR	GY	4,4	
			4 x 0,25	32 x 0,1	5	PUR	GY	4,4	
			4 x 0,25	32 x 0,1	10	PUR	GY	4,4	

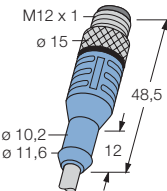
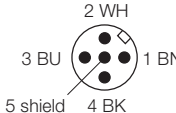
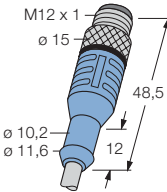
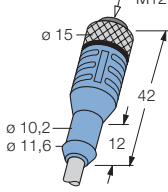
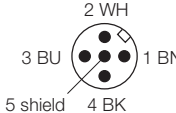
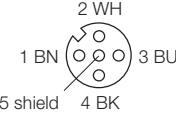
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Steckverbinder-Systeme für Sensoren und Aktuatoren (M12 x 1 auf Ø 8 mm/M8 x 1/M12 x 1/Ende offen) Connector Systems for Sensors and Actuators (M12 x 1 to Ø 8 mm/M8 x 1/M12 x 1/Open end)

Abmessungen/Bauform Dimensions/Housing style [mm]	Anschluss Pin configuration	Leitung/Cable						
		Querschnitt Cross section [mm²]	Adernaufbau Conductor construction [mm Ø]	Länge/ Length [m]	Qualität Quality	Farbe Colour	Durchmesser Diameter [mm Ø]	
 M12 x 1 - Ø 8 mm		3 x 0,25	32 x 0,1	1	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	1,5	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	2	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	5	PUR	GY	4,4	
 M12 x 1 - M8 x 1		3 x 0,25	32 x 0,1	1	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	1,5	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	2	PUR	GY	4,4	
		3 x 0,25	32 x 0,1	5	PUR	GY	4,4	
 M12 x 1 - M12 x 1		4 x 0,34	43 x 0,1	5	PVC	GY	5,2	
		4 x 0,34	43 x 0,1	2	PUR	GY	5,2	
		4 x 0,34	43 x 0,1	5	PUR	GY	5,2	
		4 x 0,34	43 x 0,1	2	PVC-X	GY	5,2	
		4 x 0,34	43 x 0,1	5	PVC-X	GY	5,2	
		4 x 0,34	43 x 0,1	5	PVC-X	GY	5,2	
 M12 x 1		4 x 0,34	43 x 0,1	2	PUR	GY	5,2	
		4 x 0,34	43 x 0,1	5	PUR	GY	5,2	
 M12 x 1		4 x 0,34	43 x 0,1	2	PUR	GY	5,2	
		4 x 0,34	43 x 0,1	5	PUR	GY	5,2	

	Typenbezeichnung Type	Ident-Nr. Ident no.	Nennstrom Rated current	Nenn- spannung Rated voltage	Überwurfmutter Coupling nut	Umgebungstemperatur Temperature range [°C]		Schutzart Degree of protection	LED	
			[A]	[V]		Stecker Connector	Leitung Cable		U _B	
	WAK3-1-SP3/S90	8015483	4	max. 250	CuZn - Ni	-30...+90	-40...+80	IP67		
	WAK3-1,5-SP3/S90	8024803	4	max. 250	CuZn - Ni	-30...+90	-40...+80	IP67		
	WAK3-2-SP3/S90	8015484	4	max. 250	CuZn - Ni	-30...+90	-40...+80	IP67		
	WAK3-5-SP3/S90	8015485	4	max. 250	CuZn - Ni	-30...+90	-40...+80	IP67		
	WAK3-1-SSP3/S90	8009713	4	max. 250	CuZn - Ni	-30...+90	-40...+80	IP67		
	WAK3-1,5-SSP3/S90	8017210	4	max. 250	CuZn - Ni	-30...+90	-40...+80	IP67		
	WAK3-2-SSP3/S90	8010511	4	max. 250	CuZn - Ni	-30...+90	-40...+80	IP67		
	WAK3-5-SSP3/S90	8015475	4	max. 250	CuZn - Ni	-30...+90	-40...+80	IP67		
	WAK4-5-WAS4/P00	8006745	4	max. 250	CuZn - Ni	-40...+80	-25...+80	IP67		
	WAK4-2-WAS4/S90	8006739	4	max. 250	CuZn - Ni	-40...+80	-25...+80	IP67		
	WAK4-5-WAS4/S90	8006746	4	max. 250	CuZn - Ni	-40...+80	-25...+80	IP67		
	WAK4-2-WAS4/XOR	8006740	4	max. 250	CuZn - Ni	-40...+80	-25...+80	IP67		
	WAK4-5-WAS4/XOR	8006747	4	max. 250	CuZn - Ni	-40...+80	-25...+80	IP67		
	WAS4-2/S90	8007098	4	max. 250	CuZn - Ni	-40...+80	-25...+80	IP67		
	WAS4-5/S90	8007105	4	max. 250	CuZn - Ni	-40...+80	-25...+80	IP67		
	WWAS4-2/S90	8007200	4	max. 250	CuZn - Ni	-40...+80	-25...+80	IP67		
	WWAS4-5/S90	8007207	4	max. 250	CuZn - Ni	-40...+80	-25...+80	IP67		

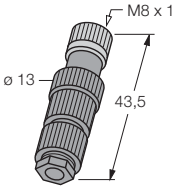
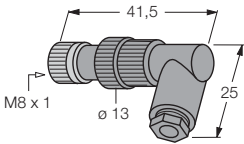
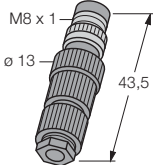
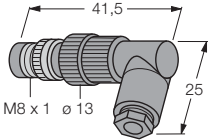
Steckverbinder-Systeme für Sensoren und Aktuatoren (M12 x 1) – geschirmt Connector Systems for Sensors and Actuators (M12 x 1) – shielded

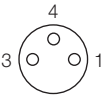
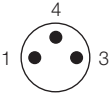
Abmessungen/Bauform Dimensions/Housing style	Anschluss Pin configuration	Leitung/Cable						
		Querschnitt Cross section	Adernaufbau Conductor construction	Länge Length	Qualität ¹⁾ Quality ¹⁾	Farbe Colour	Durchmesser Diameter	
[mm]		[mm²]	[mm Ø]	[m]			[mm Ø]	
	M12 x 1 		5 x 0,34	43 x 0,1	2	PUR-H	GY	5,2
			5 x 0,34	43 x 0,1	5	PUR-H	GY	5,2
 	M12 x 1- M12 x 1 	 	5 x 0,34	43 x 0,1	1	PUR-H	GY	5,2
			5 x 0,34	43 x 0,1	2	PUR-H	GY	5,2
			5 x 0,34	43 x 0,1	5	PUR-H	GY	5,2

¹⁾ PUR-H = Polyurethan, halogenfrei/Polyurethane, halogen-free

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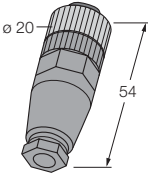
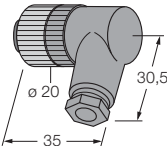
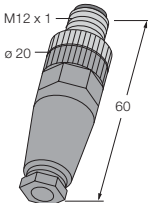
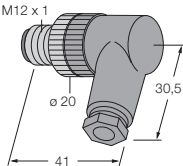
Konfektionierbare Steckverbinder-Systeme (M8 x 1)
Field wireable Connector Systems (M8 x 1)

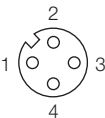
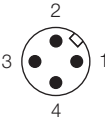
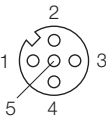
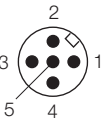
Abmessungen/Bauform Dimensions/Housing style [mm]	Leiteranzahl Number of conductors	Kabellänge Cable length [m]	Werkstoffe/Materials			
			Kabelmantel Cable jacket	Überwurfmutter Coupling nut	Griffteil Grip	
 M8 x 1 ☞	3	–	PA	GD-Zn-Ni	PA	
	4	–	PA	GD-Zn-Ni	PA	
 M8 x 1 ☞	3	–	PA	GD-Zn-Ni	PA	
	4	–	PA	GD-Zn-Ni	PA	
 M8 x 1 ☛	3	–	PA	GD-Zn-Ni	PA	
	4	–	PA	GD-Zn-Ni	PA	
 M8 x 1 ☛	3	–	PA	GD-Zn-Ni	PA	
	4	–	PA	GD-Zn-Ni	PA	

Anschlussbelegung Pin Configuration	(C015)	(C016)	(C017)	(C018)
	☞ 	☞ 	☛ 	☛ 

	Typenbezeichnung Type	Ident-Nr. Ident no.	Nennstrom Rated current	Nenn- spannung Rated voltage	Anschluss Connection	Umgebungstemperatur/ Temperature range [°C]		Schutzart Degree of protection	LED	
			[A]	[VAC/VDC]		Stecker Connector	Leitung Cable		U _B	
	H5131-0	6902700	4	60/60	(C015)	-40...+80	-25...+80	IP67		
	H5141-0	6902720	4	60/60	(C016)	-40...+80	-25...+80	IP67		
	H5231-0	6902800	4	60/60	(C015)	-40...+80	-25...+80	IP67		
	H5241-0	6902820	4	60/60	(C016)	-40...+80	-25...+80	IP67		
	HS5131-0	6902710	4	60/60	(C017)	-40...+80	-25...+80	IP67		
	HS5141-0	6902730	4	60/60	(C018)	-40...+80	-25...+80	IP67		
	HS5231-0	6902810	4	60/60	(C017)	-40...+80	-25...+80	IP67		
	HS5241-0	6902830	4	60/60	(C018)	-40...+80	-25...+80	IP67		

Konfektionierbare Steckverbinder-Systeme (M12 x 1)
Field wireable Connector Systems (M12 x 1)

Abmessungen/Bauform Dimensions/Housing style [mm]	Leiteranzahl Number of conductors	Kabellänge Cable length [m]	Werkstoffe/Materials			
			Kabelmantel Cable jacket	Überwurfmutter Coupling nut	Griffteil Grip	
	M12 x 1 └─┘	4	–	PBT	CuZn-Ni	PBT
		5	–	PBT	CuZn-Ni	PBT
	M12 x 1 └─┘	4	–	PBT	CuZn-Ni	PBT
		5	–	PBT	CuZn-Ni	PBT
	M12 x 1 ─┐	4	–	PBT	CuZn-Ni	PBT
		5	–	PBT	CuZn-Ni	PBT
	M12 x 1 ─┐	4	–	PBT	CuZn-Ni	PBT
		5	–	PBT	CuZn-Ni	PBT

Anschlussbelegung Pin Configuration	(C011)	(C012)	(C020)	(C021)
	└─┘ 	─┐ 	└─┘ 	─┐ 

	Typenbezeichnung Type	Ident-Nr. Ident no.	Nennstrom Rated current	Nenn- spannung Rated voltage	Anschluss Connection	Umgebungstemperatur/ Temperature range/ [°C]		Schutzart Degree of protection	LED	
			[A]	[VAC/VDC]		Stecker Connector	Leitung Cable		U _B	
	H8141-0	6902500	4	125/150	(C011)	-40...+80	-25...+80	IP67		
	B8151-0	6904601	4	30/36	(C020)	-40...+80	-25...+80	IP67		
	H8241-0	6902600	4	125/150	(C011)	-40...+80	-25...+80	IP67		
	B8251-0	6904602	4	30/36	(C020)	-40...+80	-25...+80	IP67		
	HS8141-0	6902510	4	125/150	(C012)	-40...+80	-25...+80	IP67		
	BS8151-0	6904611	4	30/36	(C021)	-40...+80	-25...+80	IP67		
	HS8241-0	6902610	4	125/150	(C012)	-40...+80	-25...+80	IP67		
	BS8251-0	6904612	4	30/36	(C021)	-40...+80	-25...+80	IP67		

Verteilersysteme – Blockverteiler/Aktuator-Sensor-Boxen

Junctions – Block Junctions/Actuator-Sensor-Boxes

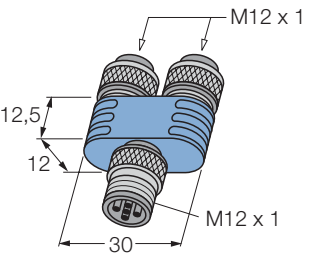
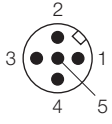
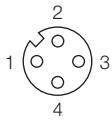
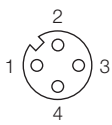
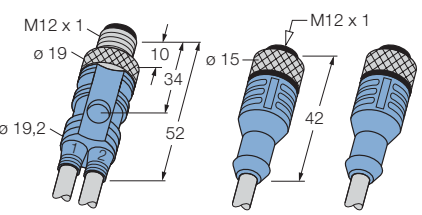
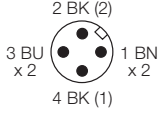
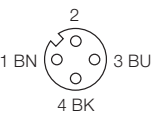
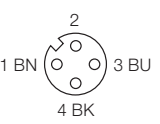
Abmessungen/Bauform	Anschluss	Leitung/Cable					
Dimensions/Housing style	Pin configuration	Querschnitt Cross section	Adernaufbau Conductor construction	Länge Length	Qualität ¹⁾ Quality ¹⁾	Farbe Colour	Durchmesser Diameter
[mm]		[mm²]	[mm Ø]	[mm Ø]			[mm Ø]
 M12 x 1 – M12 x 1							
 M12 x 1 – M12 x 1							
 M4 x 40 DIN 912 – M4 x 40 DIN 912		4 x 0,34 3 x 1,0	43 x 0,1 128 x 0,1	2	PUR-H	BK	7,9
 M4 x 40 DIN 912 – M4 x 40 DIN 912		8 x 0,34 3 x 1,0	43 x 0,1 128 x 0,1	5	PUR-H	BK	8,6

1) PUR-H = Polyurethan, halogenfrei/Polyurethane, halogen-free

	Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Sensoren/ Aktuatoren Connection sensors/ actuators	Nennstrom Rated current [A]	Nenn- spannung Rated voltage [V]	Umgebungstemperatur Temperature range [°C]		LEDs
						Verteiler Junction	Leitung Cable	
	FSM4-2FKM3/S89	8010464	M12 x 1	4	max. 250	-30...+ 90		
	FSM4-2FKM3P3/S89	8012652	M12 x 1	4	10 ... 30	-30...+ 90		3
	4MB12-5.4P2-2/S366	8018110	M12 x 1	4 / Σ 12	10...48	-30...+ 80	-40...+ 90	5
	8MB12-5.4P2-5/S366	8018105	M12 x 1	4 / Σ 12	10...48	-30...+ 80	-40...+ 90	9

Verteilersysteme – Blockverteiler/Y-Verteiler

Junctions – Block Junctions/Y-Junctions

Abmessungen/Bauform Dimensions/Housing style [mm]	Anschluss Pin configuration	Leitung/Cable						
		Querschnitt Cross section [mm²]	Adernaufbau Conductor construction [mm Ø]	Länge Length [mm Ø]	Qualität Quality	Farbe Colour	Durchmesser Diameter [mm Ø]	
 M12 x 1 – M12 x 1	  							
 M12 x 1 – M12 x 1	  	4 x 0,34	43 x 0,1	0,3/0,3	PVC	GY	5,2	
		4 x 0,34	43 x 0,1	0,6/0,6	PVC	GY	5,2	
		4 x 0,34	43 x 0,1	1/1	PVC	GY	5,2	
		4 x 0,34	43 x 0,1	0,3/0,3	PUR	GY	5,2	
		4 x 0,34	43 x 0,1	0,6/0,6	PUR	GY	5,2	
		4 x 0,34	43 x 0,1	1/1	PUR	GY	5,2	
		4 x 0,34	43 x 0,1	0,3/0,3	PVC-I	OR	5,2	
		4 x 0,34	43 x 0,1	0,6/0,6	PVC-I	OR	5,2	
		4 x 0,34	43 x 0,1	1/1	PVC-I	OR	5,2	

1) Nicht für BL67-M12-Basismodule geeignet/Not suitable for BL67 M12-base modules

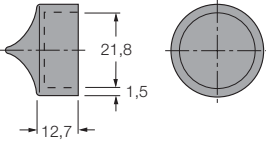
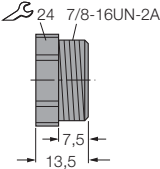
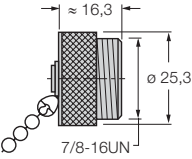
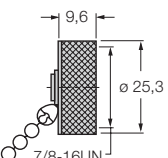
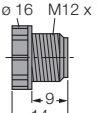
[illegible]



DeviceNet™ – Verschlusskappen 7/8“ und M12 x 1
DeviceNet™ – 7/8" and M12 x 1 blanking plugs

TURCK

Industrial
Automation

Abmessungen Dimensions	Anwendung Application	Material und Farbe Material and colour	Typenbezeichnung Type	Ident-Nr. Ident no.
	Staubkappe für 7/8"-Einbaufansche, keine interne Verdrahtung, 50 Stück pro Beutel Protective dust cap for 7/8" mounting flange, no internal wiring, 50 pcs. per package	Polyamid schwarz Polyamide black	RSM-DUST-CAP	6914862
	Verschraubkappe für 7/8"-Kupplungen, keine interne Verdrahtung Screw cap for 7/8" female connectors, no internal wiring	Polyamid schwarz Polyamide black	VZ 8	8018816
	Verschraubkappe für 7/8"-Kupplungen, keine interne Verdrahtung Screw cap for 7/8" female connectors, no internal wiring	nickelbeschichtetes Messing, schwarz nickel-plated brass, black	RSM-CC	6914829
	Verschraubkappe für 7/8"-Stecker, keine interne Verdrahtung Screw cap for 7/8" male connectors, no internal wiring	nickelbeschichtetes Messing, schwarz nickel-plated brass, black	RKM-CC	6914831
	Verschraubkappe für 12 x 1-Kupplungen, keine interne Verdrahtung Screw cap for M12 x 1 female connectors, no internal wiring	Polyurethan schwarz Polyurethane black	VZ 3	800004

A5

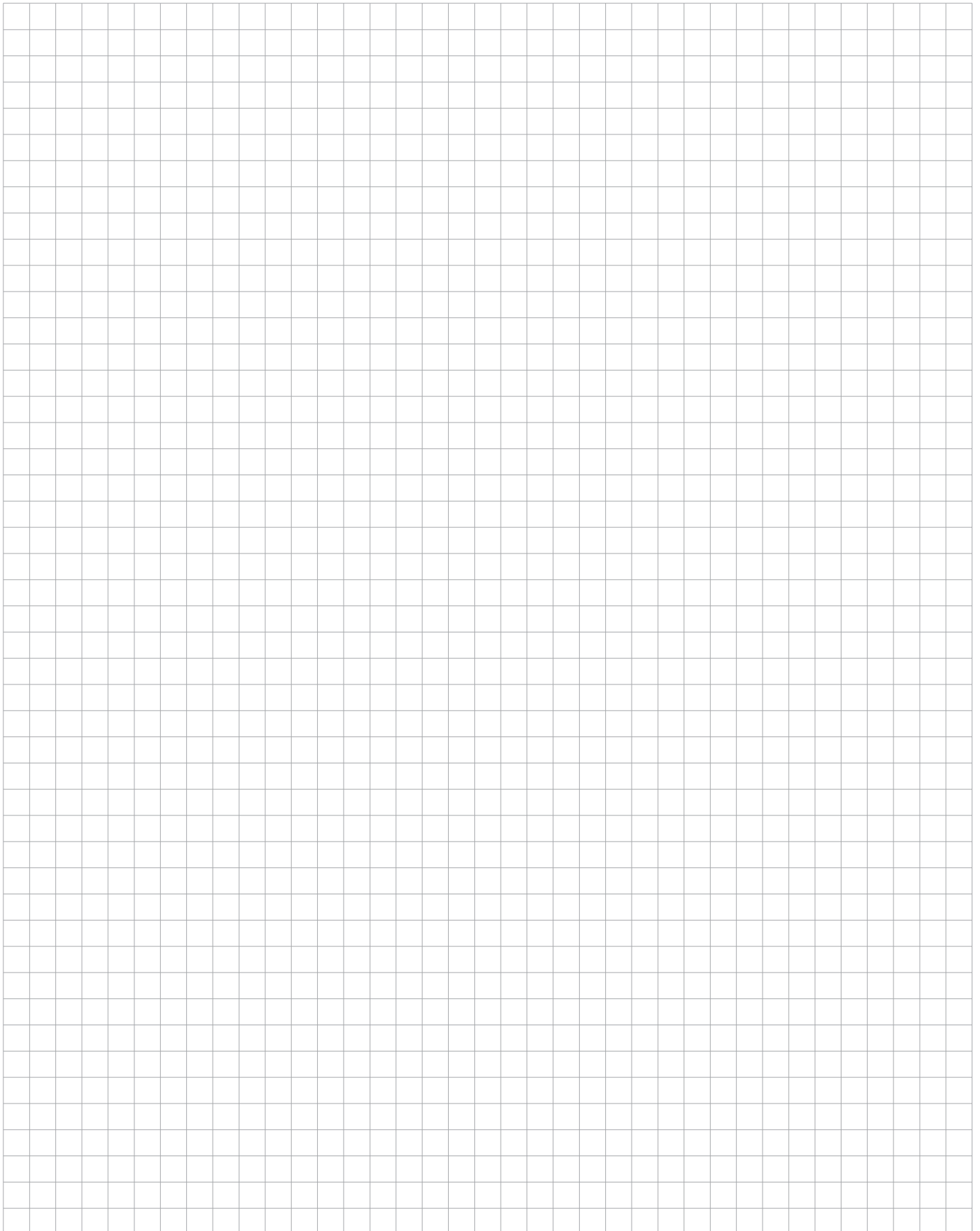
Type index

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
4MB12-5.4P2-2/S366	A5 – 16	FDNP-S0008G-TT	63	H5231-0	A5 – 12
8MB12-5.4P2-5/S366	A5 – 16	FDNP-S0008H-TT	64	H5241-0	A5 – 12
B4151-0/13,5	A3 – 13	FDNP-S0404G-TT	60	H8141-0	A5 – 14
B4151-0/9	A3 – 12/A4 – 4	FDNP-S0808G-TT	61	H8241-0	A5 – 14
B4251-0/9	A3 – 12/A4 – 4	FDNP-XSG16-TT	62	HS5131-0	A5 – 12
B8151-0	A5 – 14	FENP-S0008G	71	HS5141-0	A5 – 12
B8151-0/9	A3 – 13	FENP-S0800	69	HS5231-0	A5 – 12
B8251-0	A5 – 14	FENP-S0808G	72	HS5241-0	A5 – 12
B8251-0/9	A3 – 13	FENP-S1600	70	HS8141-0	A5 – 14
B4148-0/9	A4 – 8	FENP-XSG16	73	HS8241-0	A5 – 14
BIC-84-E424	A3 – 15	FK57	A3 – 14	IPSKP4-0,15-SSP4/S90	A2 – 6
BMSWS 8151-8,5	A3 – 4	FKDW4.54-0,5	A3 – 5	IPSKP4-0,5-SSP4/S90	A2 – 6
BMSWS 8251-8,5	A3 – 4	FKFDW4.54-0,5	A3 – 5	IPSKP4-10/S90	A2 – 6
BMWS 8151-8,5	A3 – 4	FKM-FS57-M12	A3 – 15	IPSKP4-1-SSP4/S90	A2 – 6
BMWS 8251-8,5	A3 – 4	FKSD-841-0,5M	A1 – 16	IPSKP4-2/S90	A2 – 6
BS4151-0/13,5	A3 – 13	FKW4.54-0,5	A3 – 5	IPSKP4-2-SSP4/S90	A2 – 6
BS4151-0/9	A3 – 12/A4 – 4	FKW5L	A3 – 5	IPSKP4-5/S90	A2 – 6
BS4251-0/9	A3 – 12/A4 – 4	FKW-FSW-45/M12	A3 – 7	IPSKP4-5-SSP4/S90	A2 – 6
BS8151-0	A5 – 1	FLDP-IM16-0001	26	IPSWKP4-0,15-SWSP4/S90	A2 – 6
BS8151-0/9	A3 – 13	FLDP-IM32-0001	27	IPSWKP4-0,5-SWSP4/S90	A2 – 6
BS8251-0	A5 – 14	FLDP-IM8-0001	25	IPSWKP4-10/S90	A2 – 6
BS8251-0/9	A3 – 13	FLDP-IOM1616-0001	35	IPSWKP4-1-SWSP4/S90	A2 – 6
BS4148-0/9	A4 – 8	FLDP-IOM2012-0001	37	IPSWKP4-2/S90	A2 – 6
KABEL5711-150M	A1 – 10	FLDP-IOM248-0001	36	IPSWKP4-2-SWSP4/S90	A2 – 6
KABEL5711-30M	A1 – 10	FLDP-IOM84-0001	33	IPSWKP4-5/S90	A2 – 6
KABEL5711-500M	A1 – 10	FLDP-IOM84-0002	34	IPSWKP4-5-SWSP4/S90	A2 – 6
KABEL572-150M	A1 – 8	FLDP-IOM88-0001	31	JTBS57-E434	A3 – 11
KABEL572-30M	A1 – 8	FLDP-IOM88-0002	32	JTBS57-E634	A3 – 11
KABEL572-500M	A1 – 8	FLDP-OM16-0001	30	JTBS57-M434	A3 – 11
KABEL5723-150M	A1 – 12	FLDP-OM8-0001	28	JTBS57-M634	A3 – 11
KABEL5723-30M	A1 – 12	FLDP-OM8-0002	29	KABEL451-150M	A1 – 4
KABEL5723-500M	A1 – 12	FS57	A3 – 14	KABEL451-30M	A1 – 4
CBC5-5711-0,5M	A1 – 14	FSDP-IM16-0001	41	KABEL451-500M	A1 – 4
CBC5-5711-1M	A1 – 14	FSDP-IOM84-0001	42	KABEL-DN-43-150M	A2 – 4
CBC5-5711-2M	A1 – 14	FSDW4.54-0,5	A3 – 6	KABEL-DN-43-30M	A2 – 4
CBC5-572-0,5M	A1 – 14	FSFDW4.54-0,5	A3 – 6	KABEL-DN-43-500M	A2 – 4
CBC5-572-1M	A1 – 14	FSM-2FKM-57	A3 – 8	KABEL-PDP-52-150M	A2 – 2
CBC5-572-2M	A1 – 14	FSM4-2FKM3/S89	A5 – 16	KABEL-PDP-52-30M	A2 – 2
CBC5-5723-0,5M	A1 – 14	FSM4-2FKM3P3/S89	A5 – 16	KABEL-PDP-52-500M	A2 – 2
CBC5-5723-1M	A1 – 14	FSM4-2WAK3-0,3/0,3/P00	A5 – 18	KP3-10/S90	A5 – 2
CBC5-5723-2M	A1 – 14	FSM4-2WAK3-0,3/0,3/S90	A5 – 18	KP3-2/S90	A5 – 2
D9-451-0,5M-0,5M	A1 – 6	FSM4-2WAK3-0,3/0,3/XOR	A5 – 18	KP3-5/S90	A5 – 2
D9-451-1M-1M	A1 – 6	FSM4-2WAK3-0,6/0,6/P00	A5 – 18	PDP-TRA	A3 – 3
D9-451-2M-2M	A1 – 6	FSM4-2WAK3-0,6/0,6/S90	A5 – 18	REP-DN	76
D9T451-0,5M	A1 – 6	FSM4-2WAK3-0,6/0,6/XOR	A5 – 18	REP-DP-0002	74
D9T451-1M	A1 – 6	FSM4-2WAK3-1/1/P00	A5 – 18	RJ45S-841-6M	A1 – 16
D9T451-2M	A1 – 6	FSM4-2WAK3-1/1/S90	A5 – 18	RJ45S-841-10M	A1 – 16
FDN-DN1	78	FSM4-2WAK3-1/1/XOR	A5 – 18	RJ45S-843-15M	A1 – 16
FDNL-CSG88-T	59	FSM5-2FKM5.4/S55	A5 – 18	RJ45S-FKSD-841-0,5M	A1 – 16
FDNL-L0800-T	47	FSSD-841-0,5M	A1 – 16	RJ45S-FSSD-841-0,5M	A1 – 16
FDNL-L1600-T	48	FSW4.54-0,5	A3 – 6	RJ45S-RJ45S-841-0,5M	A1 – 16
FDNL-N0800-T	56	FSW5L	A3 – 6	RJ45S-RJ45S-841-1M	A1 – 16
FDNL-N1600-T	58	FXDP-CSG88-0001	20	RJ45S-RJ45S-841-2M	A1 – 16
FDNL-S0800-T	55	FXDP-IM16-0001	16	RJ45S-RJ45S-841-4M	A1 – 16
FDNL-S1600-T	57	FXDP-IM8-0001	15	RJ45S-RJ45S-841-6M	A1 – 16
FDNP-CPG88-TT	49	FXDP-IOM88-0001	19	RJ45S-RJ45S-841-10M	A1 – 16
FDNP-L0404G-TT	50	FXDP-OM16-0001	18	RJ45S-RJ45S-843-15M	A1 – 16
FDNP-L0808G-TT	51	FXDP-OM8-0001	17	RJ45S-RJ45S-843-30M	A1 – 16
FDNP-L0808H-TT	54	FXDP-XSG16-0001	21	RKC572-10M	A1 – 8
FDNP-P0808H-TT	53	H5131-0	A5 – 12	RKC572-15M	A1 – 8
FDNP-P1204G-TT	52	H5141-0	A5 – 12	RKC572-6M	A1 – 8

Typ/Type	Seite/Page	Typ/Type	Seite/Page	Typ/Type	Seite/Page
RKC-CBC5-572-0.5M	A1 – 14	RSC572-10M	A1 – 8	RSM57-TR2	A3 – 10
RKC-CBC5-572-1M	A1 – 14	RSC572-15M	A1 – 8	RSM-DUST-CAP	A5 – 21
RKC-CBC5-572-2M	A1 – 14	RSC572-6M	A1 – 8	RSM-FKM-RKM57	A3 – 8
RKE57-TR2	A3 – 10	RSC-CBC5-572-0.5M	A1 – 14	RSS4.5-PDP-TR	A3 – 3
RKF57	A3 – 14, A4 – 5	RSC-CBC5-572-1M	A1 – 14	RSS-841-6M	A1 – 16
RKFL46	A4 – 9	RSC-CBC5-572-2M	A1 – 14	RSS-841-10M	A1 – 16
RKM5711-10M	A1 – 10	RSC-RKC572-0.3M	A1 – 8	RSS-843-15M	A1 – 16
RKM5711-15M	A1 – 10	RSC-RKC572-0.5M	A1 – 8	RSS-FKSD-841-0,5M	A1 – 16
RKM5711-6M	A1 – 10	RSC-RKC572-10M	A1 – 8	RSS-FSSD-841-0,5M	A1 – 16
RKM5723-10M	A1 – 12	RSC-RKC572-15M	A1 – 8	RSS-RJ45S-841-0,5M	A1 – 16
RKM5723-15M	A1 – 12	RSC-RKC572-1M	A1 – 8	RSS-RSS-841-0,5M	A1 – 16
RKM5723-6M	A1 – 12	RSC-RKC572-2M	A1 – 8	RSS-RSS-841-1M	A1 – 16
RKM-CBC5-5711-0.5M	A1 – 14	RSC-RKC572-30M	A1 – 8	RSS-RSS-841-2M	A1 – 16
RKM-CBC5-5711-1M	A1 – 14	RSC-RKC572-4M	A1 – 8	RSS-RSS-841-4M	A1 – 16
RKM-CBC5-5711-2M	A1 – 14	RSC-RKC572-6M	A1 – 8	RSS-RSS-841-6M	A1 – 16
RKM-CBC5-5723-0.5M	A1 – 14	RSE57-TR2	A3 – 10	RSS-RSS-841-10M	A1 – 16
RKM-CBC5-5723-1M	A1 – 14	RSF57	A3 – 14, A4 – 5	RSS-RSS-843-15M	A1 – 16
RKM-CBC5-5723-2M	A1 – 14	RSF-RKF-40/22	A4 – 9	RSS-RSS-843-30M	A1 – 16
RKM40-RKM40-L-RSM40	A4 – 7	RSF-RKF-57/22	A3 – 15, A4 – 5	RSSW451-10M	A1 – 4
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