TURCK

Industrial
Automation

BL67 — MODULAR FIELDBUS I/O-SYSTEM IN IP67

F575/03

BL67 – Modular Fieldbus I/O System in IP67

The BL67 concept:
Open, modular, extremely flexible

The modular I/O system called BL67 is designed to implement tailor-made IP67 solutions which, until today, required installation in a separate mounting cabinet. Flexibility at all levels of automation is the prime consideration.

The BL67 gateway makes the modules independent of the type of fieldbus used. It controls the entire data communication between the fieldbus and the I/O modules. The gateway further ensures the system power supply.

The electronic modules are capable of hot-swapping, i.e., they can be replaced during operation. They can be removed and plugged during load-free operation without having to disconnect the field wiring. The 24 VDC field supply is either provided via the gateway or the power feeding modules.

The base modules offer a choice of different connection technologies (M8, M12, M16, M23 and 7/8“) and can be mounted directly on the machine or via DIN rail.

Bus independence, accurate system planning, robustness and compactness are the advantages of this system.

In short: openness and flexibility in the harsh IP67 environment are the BL67’s strengths.

Gateways

- Interface between the BL67 system and the fieldbus
- Gateways for PROFIBUS-DP, CANopen, DeviceNet™ and Ethernet
- Coordinate the entire process data exchange
- Diagnostics via device LEDs and the fieldbus
- Rotary switch to set the fieldbus address
- Service interface for connection of the I/O-ASSISTANT software

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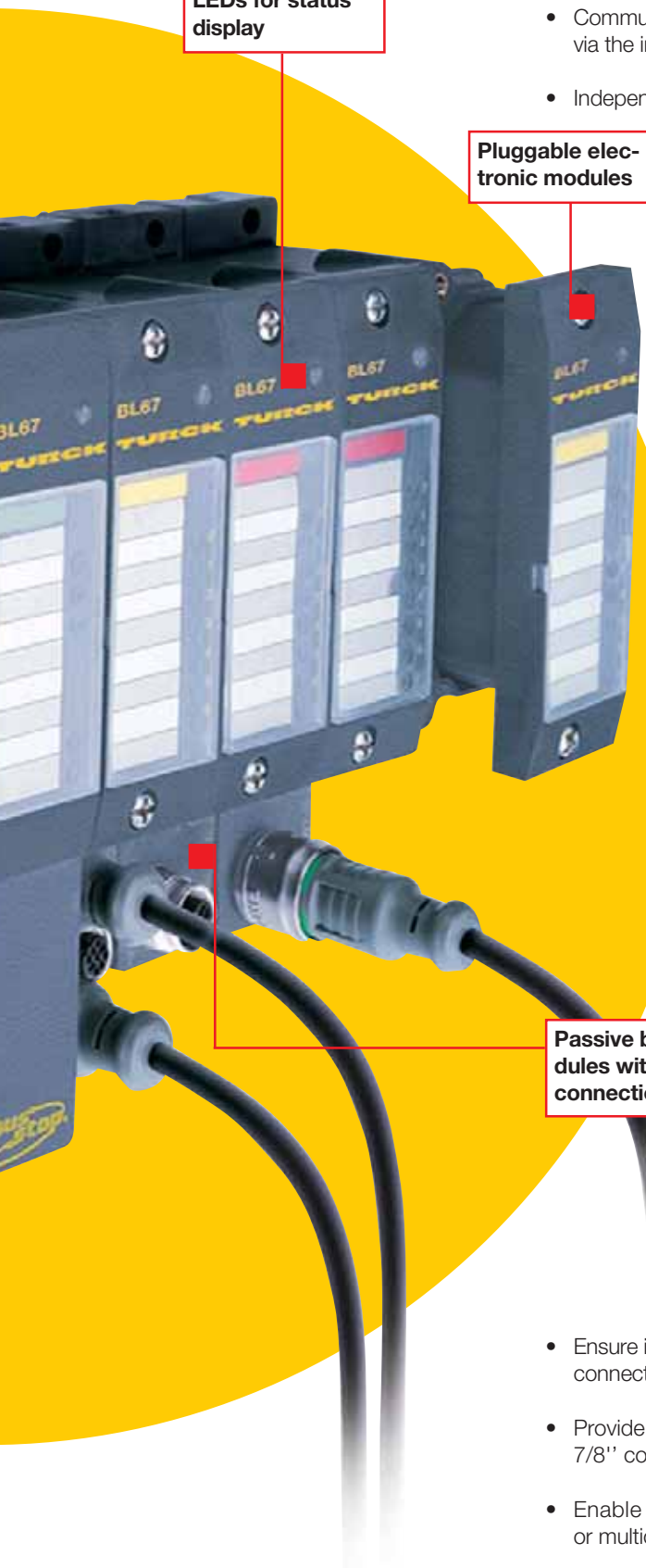


Electronic modules

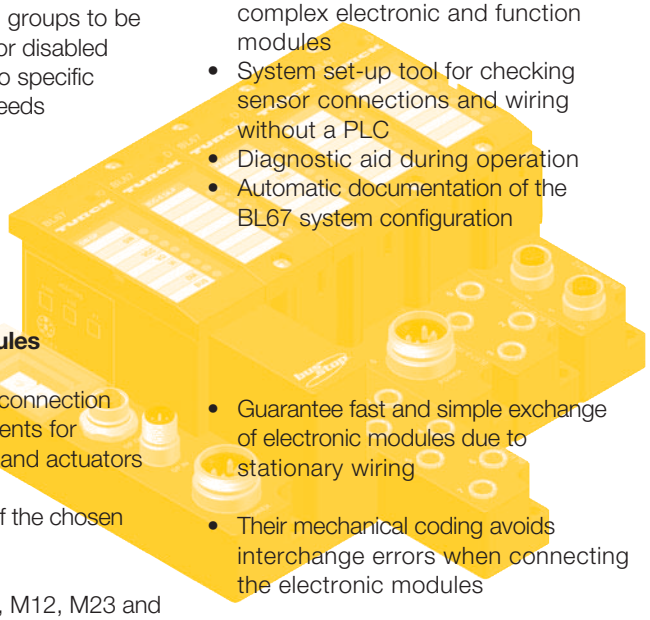
- Digital, analogue, temperature, RS232, SSI modules, CANopen interface and various other function types
- Communication with the gateway via the internal module bus
- Independent of the fieldbus type
- Independent of the chosen connection method
- 2, 4, 8 or 16 channel versions
- Device diagnostics and status display via LEDs
- Type-specific colour coding

Power feeding module

- Provide the field supply of sensors and actuators
- Significantly extend the system's expansion capabilities by eliminating the need for connectors with their typically restricted contact load capacity
- Allow construction of potential groups to be activated or disabled according to specific application needs

Software I/O-ASSISTANT

- Optional software tool to simplify commissioning, configuration, set-up and operation of the BL67 system
- Off-line planning and commissioning of the BL67 station
- On-line parameterisation of the more complex electronic and function modules
- System set-up tool for checking sensor connections and wiring without a PLC
- Diagnostic aid during operation
- Automatic documentation of the BL67 system configuration



Base modules

- Passive connection components for sensors and actuators
- Ensure independence of the chosen connection method
- Provide a choice of M8, M12, M23 and 7/8'' connectors
- Enable I/O connection via single, dual or multicore cables
- Guarantee fast and simple exchange of electronic modules due to stationary wiring
- Their mechanical coding avoids interchange errors when connecting the electronic modules

BL67 – Type Code

BL67 – Gateways

BL67 – GW – DP

GW Gateway

DP	PROFIBUS-DP
DN	DeviceNet™
EN	MODBUS TCP
EN-PN	PROFINET IO
EN-IP	EtherNet/IP
CO	CANopen

BL67 – Electronic modules

BL67 – 2AI – P

No. of channels

Signal type:
AI/AO/DI/DO/
XSG/SSI/CVI
PF/RS232/
RS485/422

If necessary include:

P	PNP
N	NPN
PD	PNP with diagnostics
V	Voltage
I	Current
PT	Pt100, Pt1000, Ni100 etc.
TC	Thermocouple

BL67 – Base modules

BL67 – B – 2M12 – P

B Base module

No. of channels:
1/2/4/8

Connection type:
– M8/M12/M23
– RSM = 7/8”

Poss. add-on:

P	Paired
8	8-pole

BL67 – Base modules BL67-B-...M12 and BL67-B-...M12-P – process data mapping

BL67-B-2M12 6827186	**BL67-B-2M12-P** 6827194	**BL67-B-4M12** 6827187	**BL67-B-4M12-P** 6827195
			

	BL67-B-2M12	BL67-B-2M12-P	BL67-B-4M12	BL67-B-4M12-P
Connector 1, Pin 4	bit 0	bit 0	bit 0	bit 0
Connector 1, Pin 2	bit 2	bit 1	bit 4	bit 1
Connector 2, Pin 4	bit 1	bit 2	bit 1	bit 2
Connector 2, Pin 2	bit 3	bit 3	bit 5	bit 3
Connector 3, Pin 4	–	–	bit 2	bit 4
Connector 3, Pin 2	–	–	bit 6	bit 5
Connector 4, Pin 4	–	–	bit 4	bit 6
Connector 4, Pin 2	–	–	bit 7	bit 7

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BL67 – Combination possibilities

BL67 – Electronic modules and matching base modules	Base modules	BL67-B-4M8	BL67-B-8M8	BL67-B-1M12	BL67-B-1M12-8	BL67-B-2M12	BL67-B-2M12-P	BL67-B-4M12	BL67-B-4M12-P	BL67-B-1M23	BL67-B-1M23-19	BL67-B-1RSM	BL67-B-1RSM-4	Page
Power feeding module														
BL67-PF-24VDC												✓	✓	28
Digital input modules														
BL67-4DI-P		✓				✓	✓	✓		✓				30
BL67-8DI-P			✓					✓	✓	✓				32
BL67-4DI-PD		✓				✓	✓	✓						34
BL67-8DI-PD			✓					✓	✓					36
BL67-4DI-N		✓				✓	✓	✓		✓				38
BL67-8DI-N			✓					✓	✓	✓				40
Digital output modules														
BL67-4DO-0.5A-P		✓				✓	✓	✓		✓				42
BL67-4DO-2A-P		✓				✓	✓	✓		✓				44
BL67-8DO-0.5A-P			✓					✓	✓	✓				46
BL67-16DO-0.1A-P											✓			48
BL67-4DO-2A-N		✓				✓	✓	✓		✓				50
BL67-8DO-0.5A-N			✓					✓	✓	✓				52
Digital input/output modules														
BL67-4DI4DO-PD			✓					✓	✓					54
Configurable digital input/output modules														
BL67-8XSG-PD			✓					✓	✓					56
Analogue input modules														
BL67-2AI-I						✓								58
BL67-2AI-V						✓								60
BL67-4AI-V/I								✓						62
BL67-2AI-PT						✓								64
BL67-2AI-TC						✓								66
Analogue output modules														
BL67-2AO-I						✓								68
BL67-2AO-V						✓								70
RS232 interface														
BL67-1RS232				✓	✓					✓				72
RS485/422 interface														
BL67-1RS485/422				✓	✓					✓				74
SSI interface														
BL67-1SSI					✓					✓				76
CANopen interface														
BL67-1CVI				✓										78

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BL67 – Modular Fieldbus I/O System in IP67

PROFIBUS-DP

- **Open fieldbus standard according to EN 50170**
- **Transmission medium: 2-wire cable, twisted, shielded**
- **Transmission technology: RS485**
- **Bus topology: line structure with bus termination on both ends**
- **Bus access mode: Master-Slave/Master-Master with "Token Passing"**
- **32 stations per segment, 126 stations max.**
- **Repeater modules for signal regeneration**
- **Addressing via coding switches**
- **Configuration/parameterisation of devices via standardised device data base files (GSD files = Geräte-stammdaten-Dateien)**

PROFIBUS (**Pro**cess **Fi**eld **Bus**) is a standardised and open communication fieldbus. It complies with EN 50170 and consists of three different protocol profiles:

– PROFIBUS-FMS (Fieldbus Message Specification) is primarily designed for data exchange between programmable logic controllers (PLCs or PCs).
– PROFIBUS-DP (Decentral Periphery) is designed for fast data exchange between the central control and the remote field devices
– PROFIBUS-PA (Process Automation) is an intrinsically safe network for the process industry.

BL67 components support PROFIBUS-DP. Within the PROFIBUS-DP network, the central control (e.g. the PLC) communicates with the remote input and output stations via a fast serial connection. Data are mainly exchanged cyclically.

PROFIBUS-DP systems excel in their fast system response times. At a transmission rate of 12 Mbps, 512 bit input and 512 bit output data can be transferred, for instance, in less than 2 ms to 32 stations.

Configuration/Parameterisation
The address setting of the modules can be freely selected from 1...125 via three decimal coded rotary switches

ATTENTION:
The PROFIBUS-DP addresses 000, 126 and 127 are reserved and may not be used for the BL67 I/O-System..

The system speed corresponds to the transmission rate set via the PROFIBUS master. The transmission speed is auto-matically detected by the BL67modules (auto baud).

The manufacturer provides device data base files (GSD files = Gerätestammdaten) for the individual PROFIBUS stations for configuration. TURCK additionally offers the I/O-ASSISTANT, a helpful software tool for configuration, parameterisation and set-up of the individual modules.
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Transmission speed	Length of bus line (max.)	Max. numbers of repeaters [1]	Max. numbers of stations
9,6...93,75 kbps	1200 m	2	126
187,5 kbps	1000 m	2	126
500 kbps	400 m	4	126
1500 kbps	200 m	6	126
3000...12000 kbps	100 m	9	126

[1] At maximum transmission speed up to 9 repeaters of the TURCK series REP-DP 0002 can be connected in series (applicable to DP-profile bus parameters). If more repeaters are to be cascaded, the bus timing parameters must be adapted accordingly by the user.

System data PROFIBUS-DP

Number of I/O stations	126 (incl. repeaters)
Number of I/O points	approx. 6000, dependening on master
Transmission medium	shielded twisted copper cable, 2 x 0.34 mm²

BL67-Station – Maximum System Extension

Maximum System Extension

Module type	Channels Max. no./station	Modules Max. no./station
Digital inputs/outputs, 4 DI/DO	128	32
Digital inputs/outputs, 8 DI/DO	256	32
Digital outputs, 16 DO	512	32
Analogue inputs, 2AI	64	32
Analogue inputs, 4AI	112	28
Analogue inputs, 2 AI-PT	56	28
Analogue inputs, 2 AI-TC	64	32
Analogue outputs, 2 AO-I	38	19
Analoge outputs, 2 AO-V	38	19

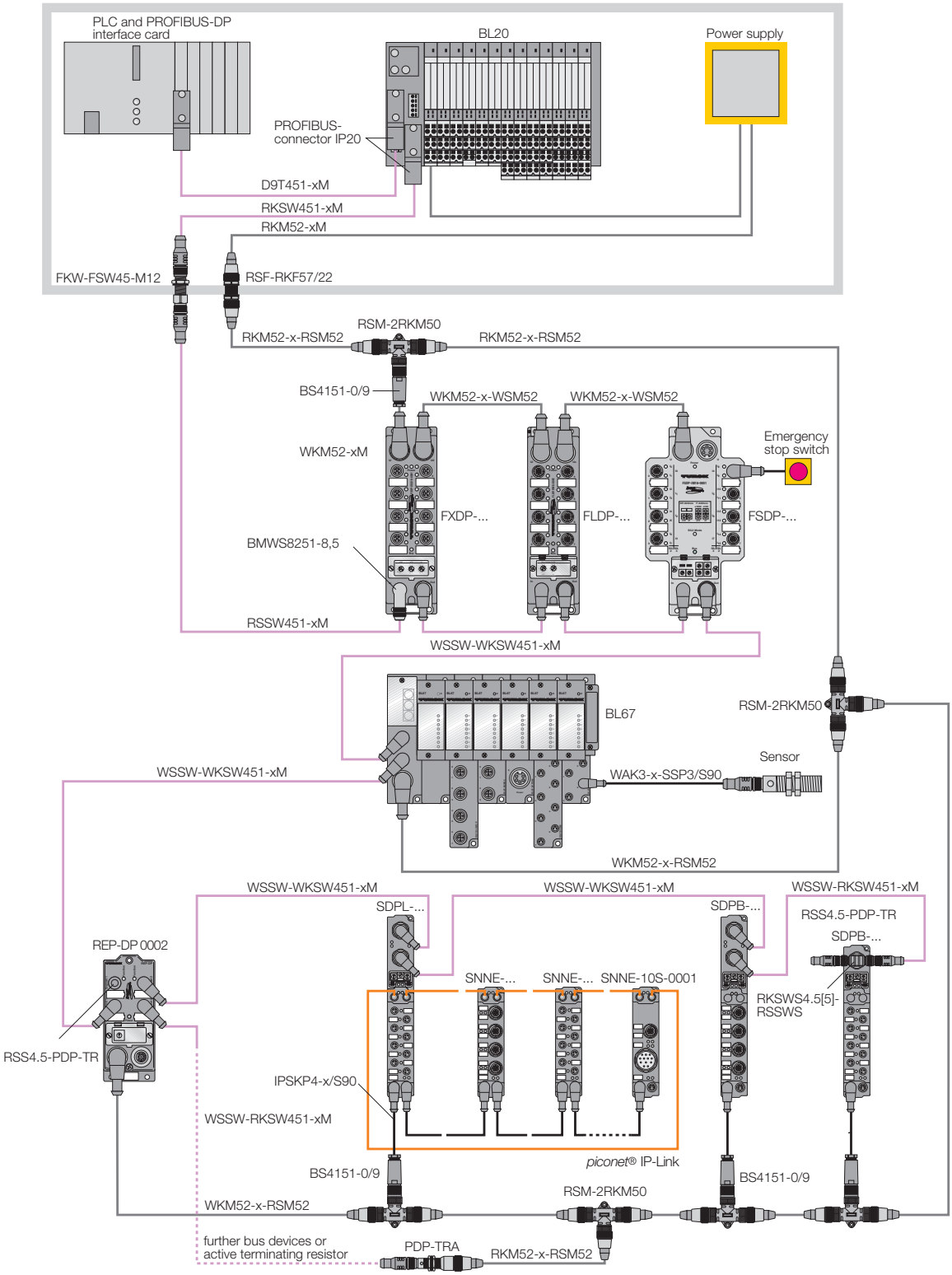
A BL67 station can be comprised of the gateway for PROFIBUS-DP and maximum of 32 modules (corresponding to a station length of approx. 1 m).

NOTE:
The maximum number of modules is dependent on the respective system configuration. The maximum number may be limited as the maximum current consumption on the module bus may not exceed 1.5 A (refer to the rated current consumption table, page 18). A limitation may also result if modules with extensive process, parameter and diagnostic datareis used. The I/O-ASSISTANT takes this fact into consideration and issues a warning message if appropriate.

Application example: TURCK fieldbus components for PROFIBUS-DP

The application schematic outlines a model PROFIBUS-DP network based on the components offered by TURCK. Alongside the IP67 BL67 fieldbus stations described in the catalogue, TURCK offers further modular bus components, excel in flexibility and user-friendly set-up and configuration, for the IP20 (BL20) and the IP67 environment (*piconet*® miniature modules and compact fieldbus components FXDP).

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.



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DeviceNet™

- **Open fieldbus standard according to EN 50325**
- **Transmission medium: cable, 2 x 2 wires, twisted shielded, for data transmission and for power supply (24 V)**
- **Transmission technology: CAN**
- **Bus topology: Line structure (bus termination on both ends) with drop lines**
- **Bus access mode: Multi-master system with CSMA/CA access mode, network-wide multi/broadcasting**
- **Use of repeaters in order to extend the length of the trunk and drop line**
- **Max. 64 nodes (incl. master)**
- **Addressing via coding switch**
- **Configuration/parameterisation of the devices via standardised EDS files (Electronic Data sheets)**

DeviceNet™ is an open, standardised bus system according to EN 50325 and is based on the CAN specification (Controller Area Network). As a multimaster system DeviceNet™ provides the following I/O communication modes:

- Polling: the master module cyclically sends output data to all subordinate slaves and receives input data via the response message.
- Change of state: telegrams are not sent constantly, but only if the contents has changed, i.e. the process image/ mapping is only transferred when it changes.
- Cyclic: the nodes automatically send data after a certain cycle time
- Strobed: the scanner requests input data via a broadcast message to all bus nodes.

The bus length depends on the transmission speed (125, 250 or 500 kbps) as shown below in the table.

Due to this especially efficient usage of the bus capacities, it is possible to achieve short response times, particularly in the change-of-state mode (despite relatively low data rates).

Configuration/Parameterisation
Module addresses from 0...63 are adjusted via two decimally coded rotary switches. The system speed corresponds to the transmission rate set via the master. The transmission speed is automatically detected by the BL67 modules (auto baud).

The manufacturer provides EDS files (EDS = Electronic Data Sheet) for configuration of the individual DeviceNet™ nodes. DeviceNet™ devices are parameterised via acyclic services (Explicit Messaging). TURCK additionally offers the I/O-ASSISTANT, a helpful software tool for configuration, parameterisation and set-up of the individual modules.

DeviceNet™ – Transmission speed and bus lengths

Transmission speed	Bus lines – max. length				Drop lines – max. length		No. of nodes
	Flat Cable	Thick Cable	Mid Cable	Thin Cable	(per drop)	(total)	(max.)
125 kbps	420 m	500 m	300 m	100 m	6 m	156 m	64
250 kbps	200 m	250 m	250 m	100 m	6 m	78 m	64
500 KBit/s	75 m	100 m	100 m	100 m	6 m	39 m	64

System data DeviceNet™

Number of nodes	64 (incl. master)
Number of I/O points	depending on control system
Transmission medium	shielded twisted copper cable, at least 2 x 2 x 0.21 mm²
I/O communication types	polling, change of state, cyclic, strobed

BL67-Station – Maximum System Extension

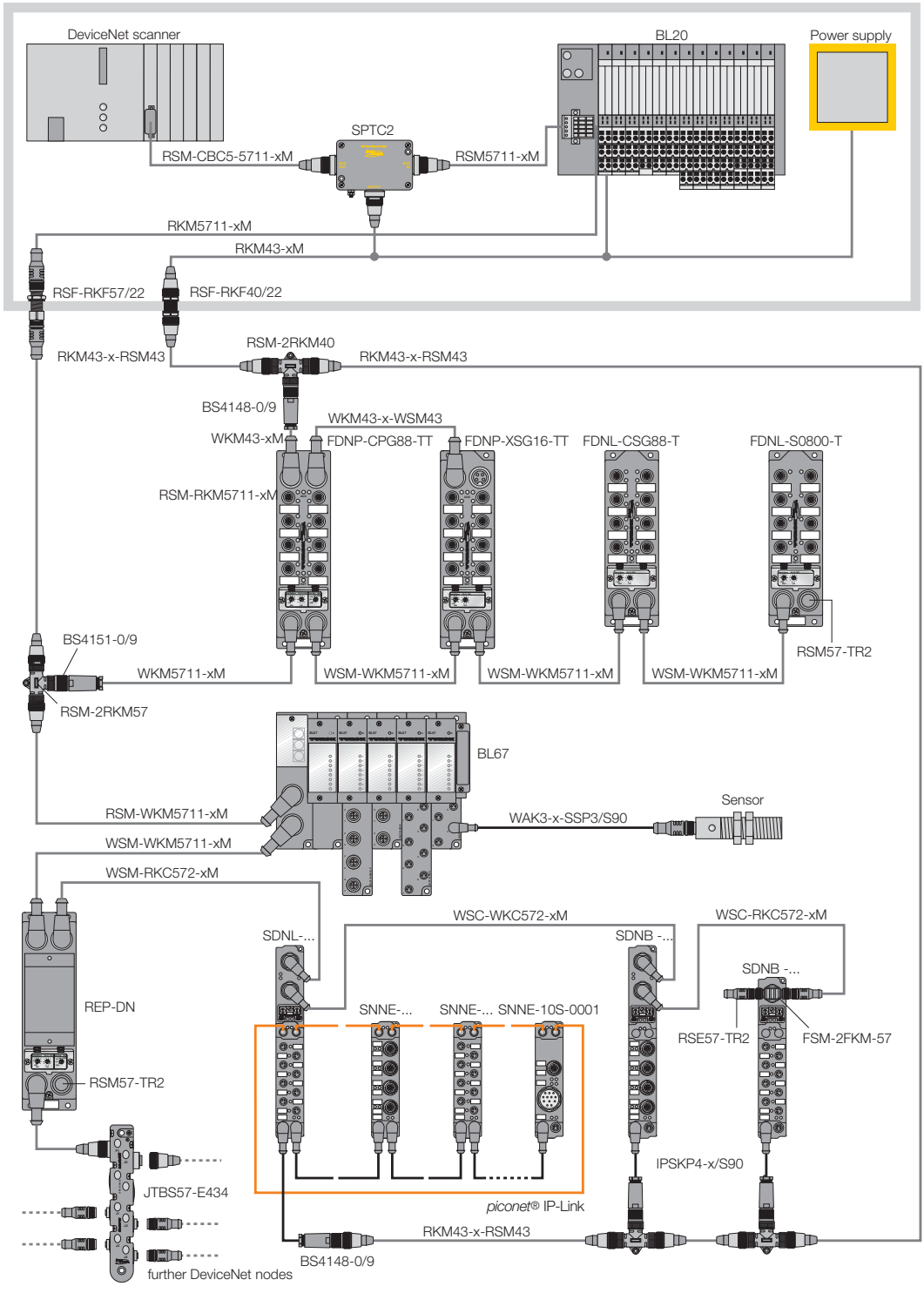
Module type	Channels Max. no./station	Modules Max. no./station
Digital inputs, 4 DI/DO	128	32
Digital inputs, 8 DI/DO	256	32
Digital outputs, 16 DO	512	32
Analogue inputs, 2 AI	64	32
Analogue inputs, 4 AI	124	31
Analogue inputs, 2 AI-PT	64	32
Analogue inputs, 2 AI-TC	64	32
Analogue outputs, 2 AO-I	64	32
Analogue outputs, 2 AO-V	50	25

A BL67 station can be comprised of the gateway for DeviceNet™ and a maximum of 32 modules (corresponding to a station length of approx. 1 m)

NOTE:
The maximum number of modules is dependent on the respective system configuration. The maximum number may be limited as the maximum current consumption on the module bus may not exceed 1.5 A (refer to the rated current consumption table, page 18). A limitation may also result if modules with extensive process, parameter and diagnostic data are used. The I/O-ASSISTANT takes this fact into consideration and issues a warning message if appropriate.

Application example: TURCK fieldbus components for DeviceNet™

The application schematic outlines a model DeviceNet™ network based on the components offered by TURCK. Alongside the BL67 fieldbus stations in IP67 described in the catalogue, TURCK offers further modular bus components, which excel in flexibility and user-friendly set-up and configuration, for the IP20 (BL20) and the IP67 environment (*piconet*® miniature modules and compact fieldbus components FDNX). 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.



CANopen

- **Open fieldbus standard according to EN 50325-4**
- **Transmission medium: cable, 2 x 2 wires, twisted shielded, for data transmission and for power supply (24 V)**
- **Transmission technology: CAN**
- **Bus topology: Line structure (bus termination on both ends) with drop lines**
- **Bus access mode: Multi-master system with CSMA/CA access mode, network-wide multi/broadcasting**
- **Max. 127 nodes (incl. repeaters)**
- **Addressing via coding switches**
- **Use of repeaters in order to extend the length of the trunk and drop line**
- **Configuration/parameterisation of the devices via standardised EDS files (Electronic Data sheets)**

The CAN user layer CANopen consists of device profiles, which standardise the data contents of the respective device categories, and of communication profiles. The communication profile determines the method of data exchange between the devices. In this context one differentiates between real time data (process data objects – PDO) and parameter data (service data objects – SDO).
CANopen defines different communication modes for the transmission of the process data (PDOs):

- Event-controlled: Messages are sent as soon as the contents has changed. Therefore, the process image/mapping is not transferred permanently; only the modifications are transmitted.
- Cyclic synchronous mode: The modules are requested to accept the output data received and to send new input data via a SYNC telegram.
- Request-controlled: The modules are triggered to send their input data via a CAN data request message.

BL67 components are suited for all I/O communication modes.
CANopen devices are parameterised via SDOs. These are primarily used to transfer parameters during device configuration and to transmit longer data fields.
Due to effective usage of the bus bandwidth CANopen offers short system response times at a relatively low transmission speed (max. 1 Mbps).

Configuration/Parameterisation
Module addresses ranging from 1...99 are adjusted via two decimally coded rotary switches. The system speed corresponds to the transmission rate set via the master. The transmission speed is automatically detected by the BL67 modules (auto baud).

The manufacturer provides EDS files (EDS = Electronic Data Sheet) for configuration of the individual CANopen nodes. TURCK additionally offers the I/O-ASSISTANT, a helpful software tool for configuration, parameterisation and set-up of the individual modules.

Transmission speed	Bus trunk line (max.)	No. of nodes (max.)
10 kbps	5000 m	127
20 kbps	2500 m	127
50 KBit/s	1000 m	127
125 kbps	500 m	127
250 kbps	250 m	127
500 KBit/s	100 m	127
800 kbps	50 m	127
1000 kbps	25 m	127

System data CANopen

Number of I/O stations	127 (incl. repeaters)
Number of I/O points	depending on control system
Transmission medium	shielded twisted copper cable, at least 2 x 2 x 0.21 mm²

BL67-Station – Maximum System Extension

Module type	Channels Max. no./station	Modules Max. no./station
Digital inputs, 4 DI/DO	128	32
Digital inputs, 8 DI/DO	256	32
Digital outputs, 16 DO	512	32
Analogue inputs, 2 AI	64	32
Analogue inputs, 4 AI	124	31
Analogue inputs, 2 AI-PT	64	32
Analogue inputs, 2 AI-TC	64	32
Analogue outputs, 2 AO-I	64	32
Analogue outputs, 2 AO-V	50	25

A BL67 station can be comprised of the gateway for CANopen and a maximum of 32 modules (corresponding to a station length of approx. 1 m)

NOTE:
The maximum number of modules is dependent on the respective system configuration. The maximum number may be limited as the maximum current consumption on the module bus may not exceed 1.5 A (refer to the rated current consumption table, page 18). A limitation may also result if modules with extensive process, parameter and diagnostic data are used. The I/O-ASSISTANT takes this fact into consideration and issues a warning message if appropriate
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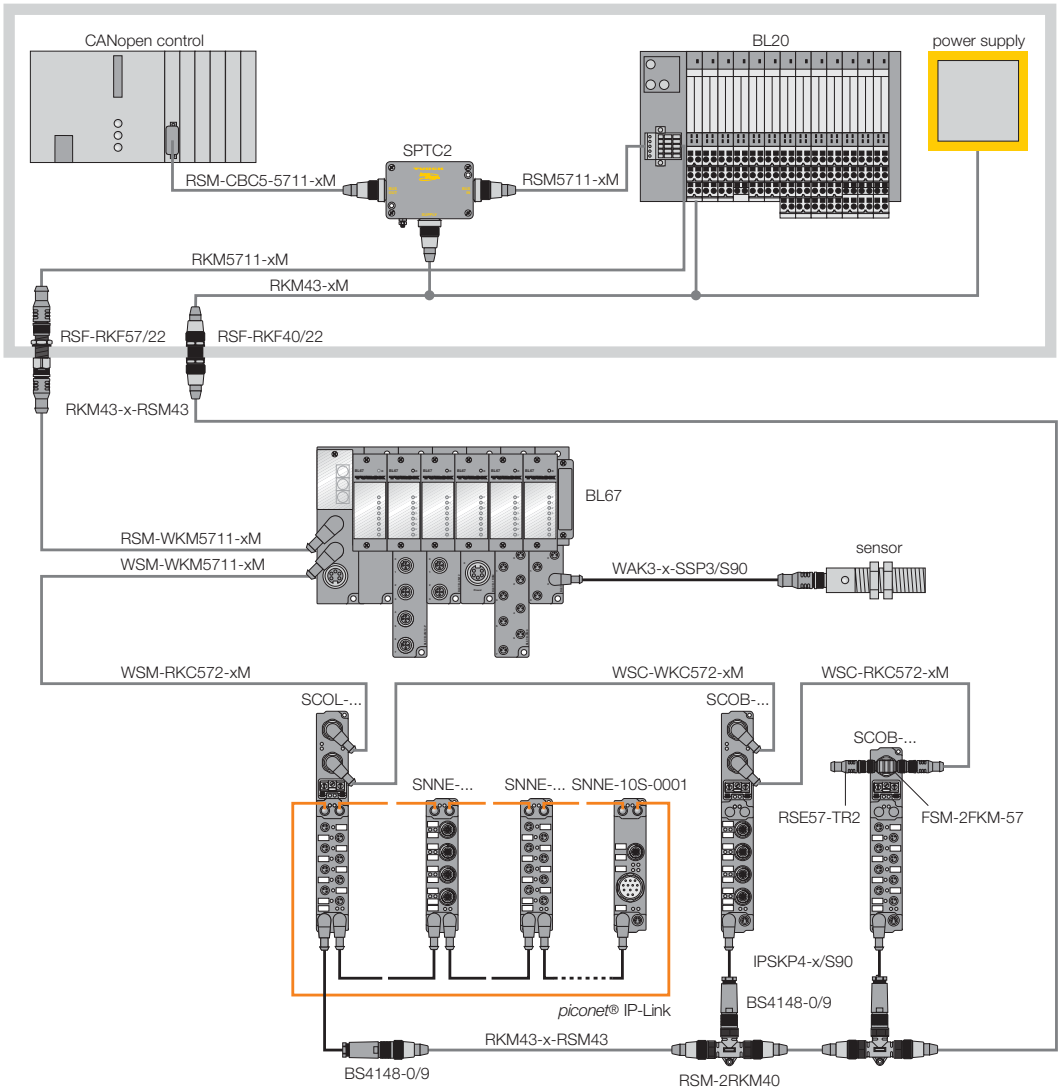
Application example: TURCK fieldbus components for CANopen

The application schematic outlines a model CANopen network based on the components offered by TURCK. Alongside the BL67 fieldbus stations in IP67 described in the catalogue, TURCK offers further modular bus components, which excel in flexibility and user-friendly set-up and configuration, for the IP20 (BL20) and the IP67 environment (*piconet*® miniature modules and compact fieldbus components).

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.



Ethernet

- **Open fieldbus standard acc. to IEE 802.3**
- **Transmission medium: 2 x 2 twisted-pair copper cable, shielded, category 3 (10 Mbps), category 5 (100 Mbps)**
- **Bus topology: star structure/ tree structure**
- **Switches and hubs as junction points for connection of the Ethernet nodes**
- **Bus access mode: multi-master system with CSMA/CD access mode, network-wide multi/broadcasting**
- **Number of bus nodes theoretically unlimited**
- **Protocols: MODBUS TCP, EtherNet/IP and PROFINET IO**

The term Ethernet generally stands for the IEEE 802.3 specification. The modules are networked within a tree or star structure and are marked according to a 6-byte, worldwide and unique identification code (MAC ID). The distance between two bus nodes may not exceed 100 m when using rigid cables. If flexible cables are used, the maximum length depends on the network construction.

Switches and hubs interconnect the Ethernet nodes and are thus the nodal points within the network. Hubs always send data to and receive data from all nodes, whereas switches feature a selective data transmission mode. Switches dynamically govern a list with the IP addresses of all connected bus nodes. Thus it is ensured that data are only sent to the relevant target address. Data collisions are avoided and the network bandwidth is increased.

The original Ethernet protocol transfers the data frame from one to a single or several other nodes. The transmission mode does not include acknowledgement messages (handshake communication) and re-transfer of lost data frames. The Internet Protocol (IP) handles segmenting, routing (path finding), searching and allocation of the permanent MAC-IDs.
Just like the Ethernet protocol, the IP does not ensure secure data transport. Data frames can get lost or be disrupted in their order.

Protocols such as TCP/IP, which ensure safe data transmission, are available. The Transmission Control Protocol (TCP) is based on the IP and is a connection-orientated transfer protocol, comprising error diagnostics and error handling mechanisms. This protocol ensures that lost telegrams are re-transmitted.
Based on TCP, further protocols such as MODBUS TCP, EtherNet/IP and PROFINET IO have been developed for applications involving industrial data communication.

Configuration Modbus TCP
The IP address comprises 4 bytes and is set by the user via three coded rotary switches on the BL67 module. The Modbus-TCP port is assigned to 502. The transmission speed is automatically detected by the BL67 modules (auto baud).

System data Ethernet Modbus TCP	
Number of I/O stations	only limited through IP address area
Number of I/O points	depending on control system
Transmission medium	2 x 2 twisted-pair copper cable, shielded, category 3 (10 Mbps), category 5 (100 Mbps)
Line length	max. 100 m distance between the modules

BL67-Station – Maximum System Extension

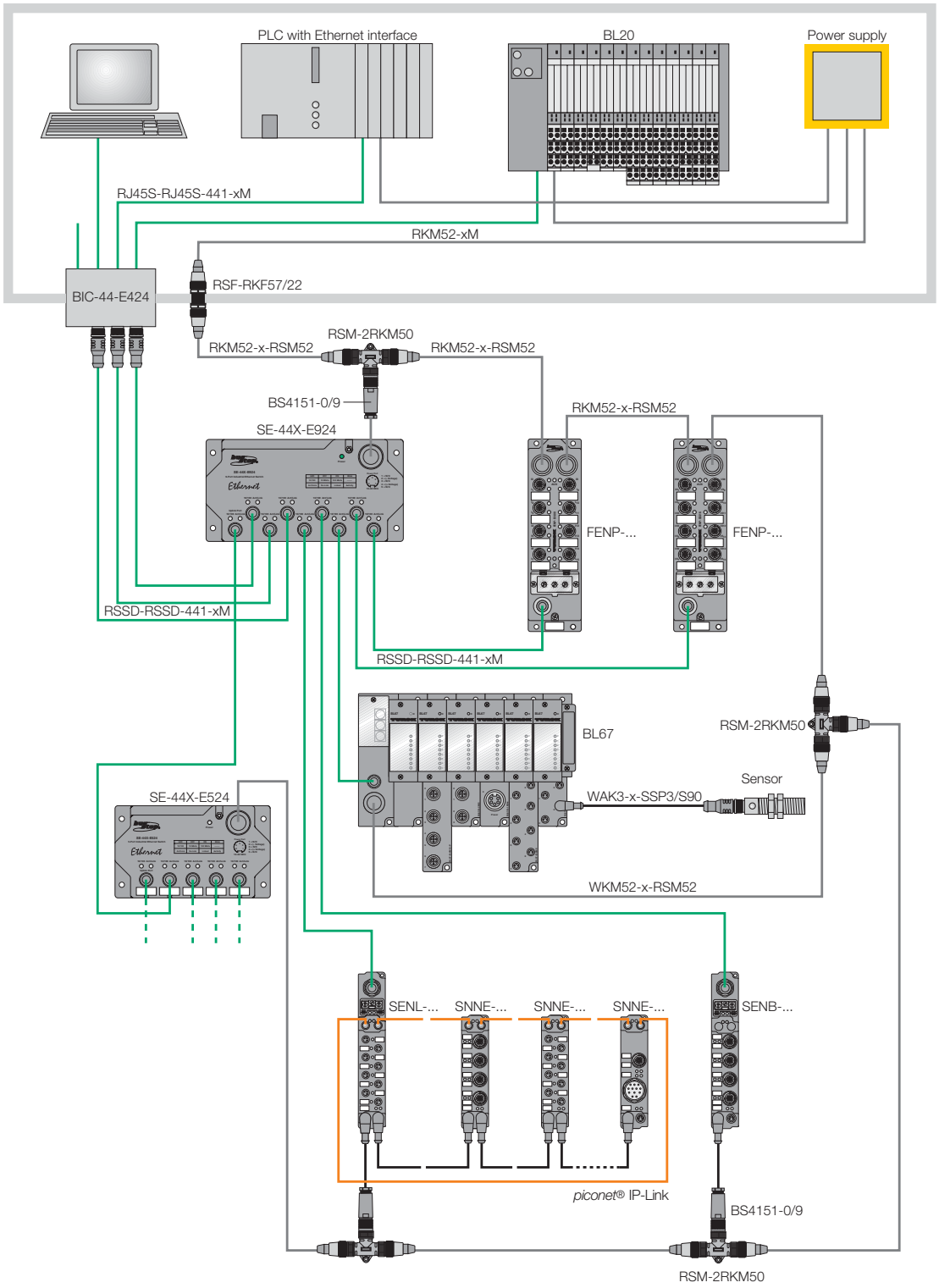
Module type	Channels Max. no./station	Modules Max. no./station
Digital inputs, 4 DI/DO	128	32
Digital inputs, 8 DI/DO	256	32
Digital inputs, 16 DO	512	32
Analogue inputs, 2 AI	64	32
Analogue inputs, 4 AI	128	32
Analogue inputs, 2 AI-PT	64	32
Analogue inputs, 2 AI-TC	64	32
Analogue outputs, 2 AO-I	64	32
Analogue outputs, 2 AO-V	50	25

A BL67 station can be comprised of the gateway for Ethernet and a maximum of 32 modules (corresponding to a station length of approx. 1 m)

NOTE:
The maximum number of modules is dependent on the respective system configuration. The maximum number may be limited as the maximum current consumption on the module bus may not exceed 1.5 A (refer to the rated current consumption table, page 18). A limitation may also result if modules with extensive process, parameter and diagnostic data are used. The I/O-ASSISTANT takes this fact into consideration and issues a warning message if appropriate.

Application example: TURCK fieldbus components for Ethernet

The application schematic outlines a model Ethernet network based on the components offered by TURCK. Alongside the BL67 fieldbus stations in IP67 described in the catalogue, TURCK offers further modular bus components, which excel in flexibility and user-friendly set-up and configuration, for the IP20 (BL20) and the IP67 environment (*piconet*® miniature modules and compact fieldbus components). Premoulded cables in various designs, feed-through receptacles for cabinet mounting as well as various switches are available for network construction.



System supply General information

The BL67 station is either powered separately via the PROFIBUS-DP, CANopen or Ethernet gateway or directly via the DeviceNet™ or CANopen cable on the DeviceNet™ gateway.

Power feeding modules can be installed at any point within the BL67 station. They provide an isolated field voltage to all modules mounted to their right. Power feeding modules can also be used to create various potential groups.

System supply via the module bus

The number of BL67 modules, which can be powered via the internal module bus, depends on the nominal current rating I_{MB} of the individual modules on the module bus. The total current consumption of the installed BL67 modules may not exceed 1.5 A.

When using the software I/O-ASSISTANT the menu item <Station - Verify> will automatically generate an error indication if the system supply via the module bus is not reliably ensured.

Nominal current consumption

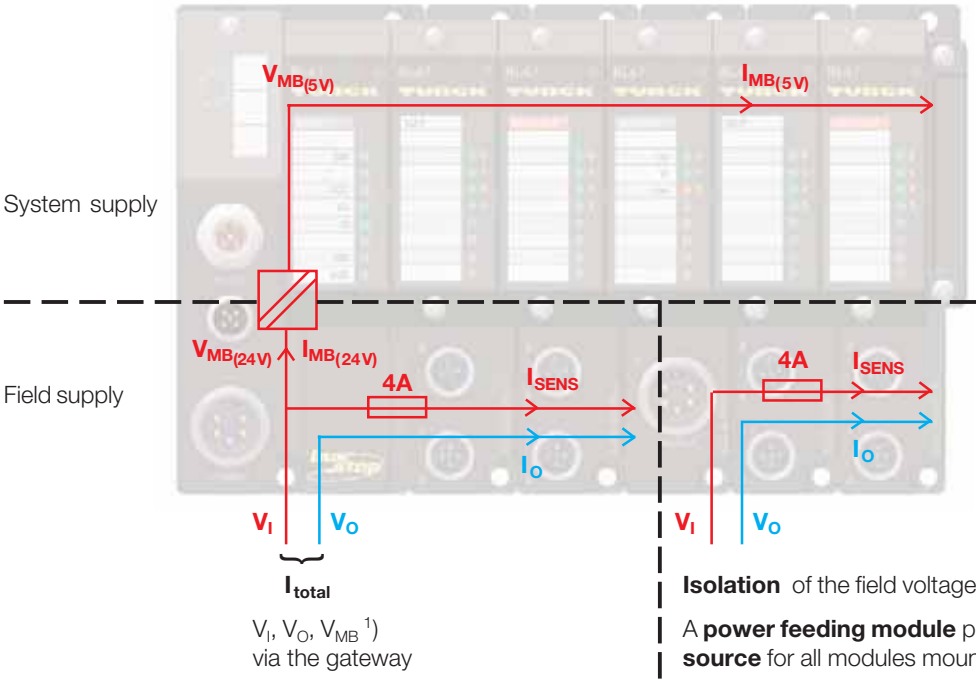
The following table informs you on the nominal current consumption $I_{MB(5V)}$ of the various BL67 modules on the module bus, the resulting nominal current consumption $I_{MB(24V)}$ of the modules via the 24 VDC supply and the nominal current consumption I_I or I_O of the modules via the supply:

				I_{total}[5]	
Module	**Nom. current module bus $I_{MB(5V)}$**[1]	**Nom. current module bus $I_{MB(24V)}$**[2]	**+**	**Nom current input module I_I**[3]	**Nom. current output module I_O**[4]
Gateway PROFIBUS-DP	–	≤ 150 mA			
Gateway DeviceNet™	–	≤ 150 mA			
Gateway CANopen	–	≤ 150 mA			
Gateway Ethernet	–	≤ 150 mA			
BL67-PF-24VDC	≤ 30 mA	≤ 9 mA			
BL67-4DI-P	≤ 30 mA	≤ 9 mA		≤ 40 mA	
BL67-4DI-N	≤ 30 mA	≤ 9 mA		≤ 1 mA	
BL67-4DI-PD	≤ 30 mA	≤ 9 mA		≤ 100 mA	
BL67-8DI-P	≤ 30 mA	≤ 9 mA		≤ 40 mA	
BL67-8DI-N	≤ 30 mA	≤ 9 mA		≤ 1 mA	
BL67-8-DI-PD	≤ 30 mA	≤ 9 mA		≤ 100 mA	
BL67-4DO-0.5A-P	≤ 30 mA	≤ 9 mA			≤ 100 mA (load current= 0)
BL67-4DO-2A-P	≤ 30 mA	≤ 9 mA			≤ 100 mA (load current= 0)
BL67-4DO-2A-N	≤ 30 mA	≤ 9 mA			≤ 100 mA (load current= 0)
BL67-8DO-0.5A-P	≤ 30 mA	≤ 9 mA			≤ 100 mA (load current= 0)
BL67-8DO-0.5A-N	≤ 30 mA	≤ 9 mA			≤ 100 mA (load current= 0)
BL67-16DO-0.1A-P	≤ 30 mA	≤ 9 mA			≤ 100 mA (load current= 0)
BL67-4DI4DO-PD	≤ 30 mA	≤ 9 mA			≤ 100 mA (load current= 0)
BL67-8XSG-PD	≤ 30 mA	≤ 9 mA			≤ 100 mA (load current= 0)
BL67-2AI-V	≤ 35 mA	≤ 10 mA		≤ 12 mA	
BL67-2AI-I	≤ 35 mA	≤ 10 mA		≤ 12 mA	
BL67-4AI-I/V	≤ 35 mA	≤ 10 mA		≤ 12 mA	
BL67-2AI-TC	≤ 35 mA	≤ 10 mA		≤ 30 mA	
BL67-2AI-PT	≤ 45 mA	≤ 13 mA		≤ 45 mA	
BL67-2AO-I	≤ 40 mA	≤ 12 mA			≤ 50 mA
BL67-2AO-V	≤ 60 mA	≤ 17 mA			≤ 50 mA
BL67-1RS232	≤ 140 mA	≤ 40 mA		≤ 50 mA	
BL67-1RS485/422	≤ 60 mA	≤ 17 mA		≤ 25 mA	
BL67-1SSI	≤ 50 mA	≤ 14 mA		≤ 25 mA	
BL67-1CVI	≤ 30 mA	≤ 9 mA		≤ 100 mA	

[1] The nominal current consumption via the 5 VDC system supply may not exceed 1.5 A. The primary product of $V_{MB(24V)}$ and $I_{MB(24V)}$ accords to the secondary product of $V_{MB(5V)}$ and $I_{MB(5V)}$. Power losses have not been considered.
[2] The nominal current consumption via the 24 VDC field supply.
[3] Is limited to 4 A by means of the integrated short-circuit protection.
[4] The nominal current consumption via the field supply: with PROFIBUS-DP it may not exceed 10 A and with DeviceNet™ 8 A.
[5] $I_{total} = \Sigma I_{MB(24V)} + \Sigma I_I + \Sigma I_O$

The Power Supply Concept

PROFIBUS-DP-/CANopen-/Ethernet system



V_{SENS} = input supply
V_I = operating voltage (U_B)
V_O = load voltage (U_L)
V_{MB} = system supply

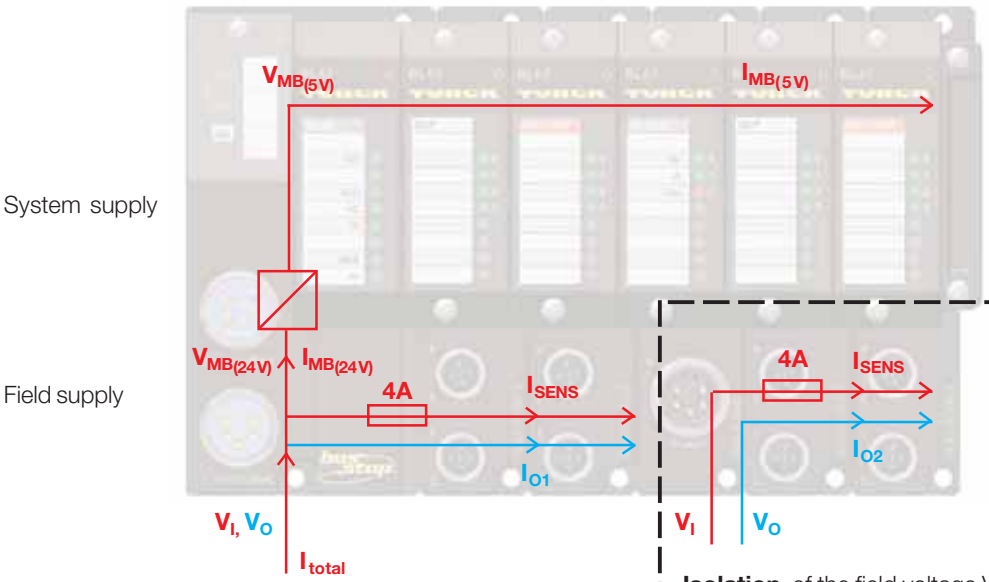
$I_{MB(5V)max}$ = 1,5 A
I_{Imax} = 4 A
I_{Omax} = 10 A

V_I, V_O, V_{MB} [1])
via the gateway

Isolation of the field voltage V_I, V_O

A **power feeding module** provides a **new isolated voltage source** for all modules mounted to its right.

DeviceNet™ system



V_{SENS} = input supply
V_I = operating voltage (U_B)
V_O = load voltage (U_L)
V_{MB} = system supply

$I_{MB(5V)max}$ = 1,5 A
$I_{sens_{max}}$ = 4 A
I_{O1max} = 8 A
I_{O2max} = 10 A

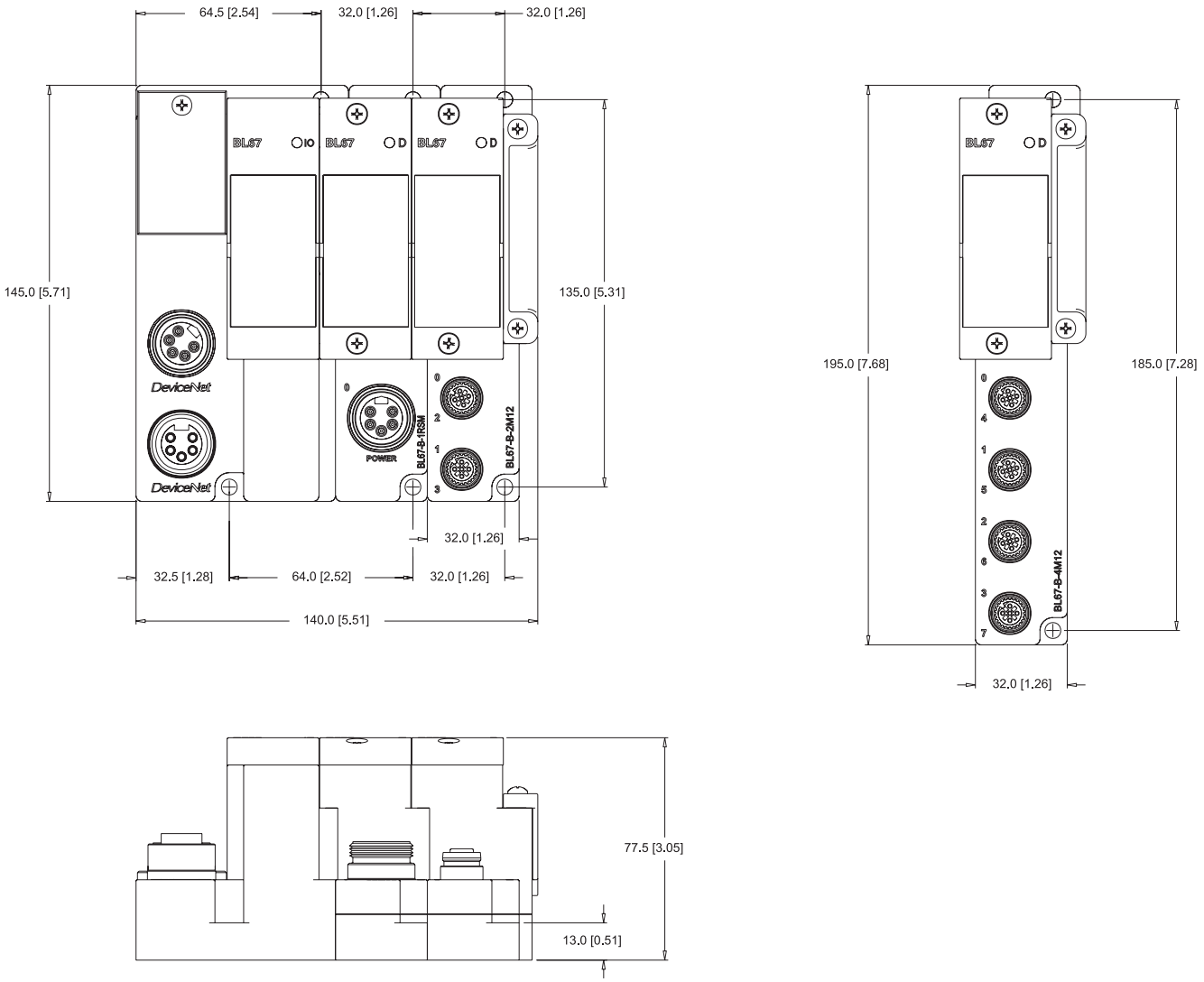
V_I, V_O, V_{MB}
via the DeviceNet™ cable

Isolation of the field voltage V_I, V_O

A **power feeding module** provides a **new isolated voltage source** for all modules mounted to its right.

[1]) $V_{MB(5V)}$ is galvanically isolated from the supply. V_I and V_O are not galvanically isolated and use a common GND potential.

Dimensions and mounting holes



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General technical data

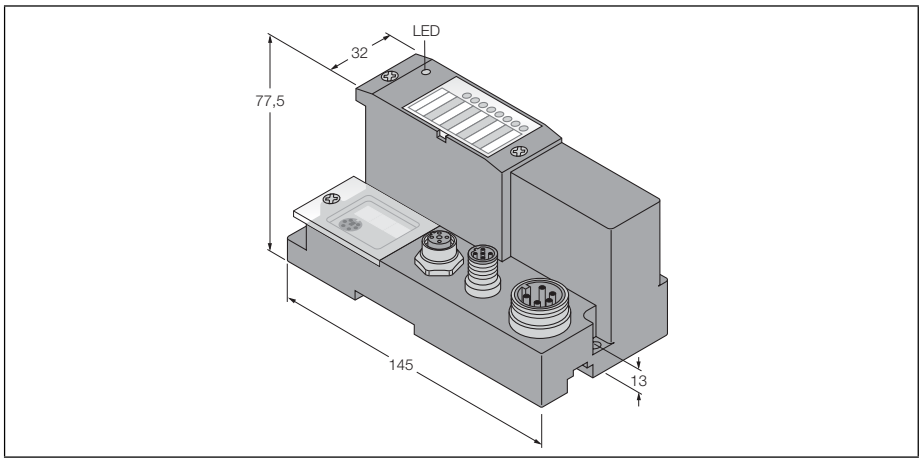
BL67 general	
Potential isolation	via opto-coupler
Ambient temperature	
– Operating temperature	0 to +55 °C (extended temperature range on request)
– Storage temperature	-25 to +85 °C
Relative humidity	5 up to 95 % (inside), level RH-2, no condensation (at 45 °C storage temperature)
Corrosive gas	according to IEC 60068-2-42/43
– SO_2	10 ppm (rel. humidity < 75 %, no condensation)
– H_2S	1.0 ppm (rel. humidity < 75 %, no condensation)
Vibration resistance	according to EN 61131
– 10 to 57 Hz, constant ampitude 0.075 mm, 1 g	yes
– 57 to 150 Hz, constant acceleration 1 g	yes
– Vibration mode	frequency cycles with a change rate of 1 octave/min
– Vibration duration	20 frequency cycles per coordinate axis
Application conditions	according to EN 61131
Shock resistance	according to IEC 68-2-27, 18 shocks, semi-sinusoidal 15 g threshold/11 ms, each in +/- direction per space coordinate
Repetitive shock resistance	according to IEC 68-2-29, 1000 shocks, semi-sinusoidal 25 g threshold/6 ms, each in +/- direction per space coordinate
Drop and topple	according to IEC 68-2-31 and free fall according to IEC 68-2-32
– Drop height (weight < 10 kg)	1.0 m
– Drop height (weight 10 to 40 kg)	0.5 m
– Test cycles	7
Protection degree	IP67
Electromagnetic capability (EMC)	according to EN 61131-2/EN 50082-2 (Industrial)
– Static electricity according to EN 61000-4-2	
– Air discharge (direct)	8 kV
– Relay discharge (indirect)	4 kV
Housing material	PC-V0 (Lexan)

Approvals
CE
UL
CSA

Note:
The I/O system BL67 does not require mounting in an extra housing.
It was specially designed for the harsh industrial environment and for direct mounting on the machine and in the process. The system is extremely robust and protected against dirt, dust and the most liquids through its high degree of protection.
However, it is not suited for the following applications: high pressure jet cleaning, 100% humidity, outdoor installation or permanent operation in liquids.

Gateway for BL67 I/O system
Interface for PROFIBUS-DP
BL67-GW-DP

Industrial Automation

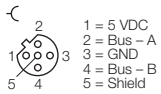


- **3 decimally coded rotary switches**
- **Degree of protection IP67**
- **LEDs for display of supply voltage, common alarm and bus errors**
- **Interface between BL67 system and PROFIBUS-DP**
- **12 Mbps**
- **Two 5-pole reverse-keyed M12 x 1 connectors for fieldbus connection**
- **One 5-pole 7/8" connector for power connection**

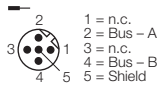
Type	BL67-GW-DP
Ident-No.	6827184
Supply voltage	24 VDC
Permissible range	18...30 VDC
Nominal current from module bus	650 mA
Max. field current supply	10 A
Max. system current supply	1.5 A
Transmission rate fieldbus	9.6 kbps...12 Mbps
Fieldbus addressing range	1...125
Fieldbus adressing	3 decimally coded rotary switches
Service interface	PS/2 socket for I/O-ASSISTANT
Fieldbus connection technology	2 x M12, 5-pole, reverse-keyed
Power connection technology	5-pole male 7/8'' connector
Fieldbus termination	external
No. of diagnostics bytes	3
No. of parameter bytes	5
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67

General technical data see page 21

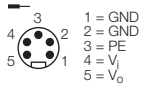
Fieldbus



Fieldbus



Power supply



Function principle

BL67 gateways are the head component of a BL67 station. They are designed to interface the modular fieldbus nodes to the higher level fieldbus (PROFIBUS-DP, DeviceNet™, CANopen, Ethernet).
All BL67 electronic modules communicate via the internal module bus, whose data are transferred to the fieldbus via the gateway, so that all I/O modules can be configured independently of the bus system.

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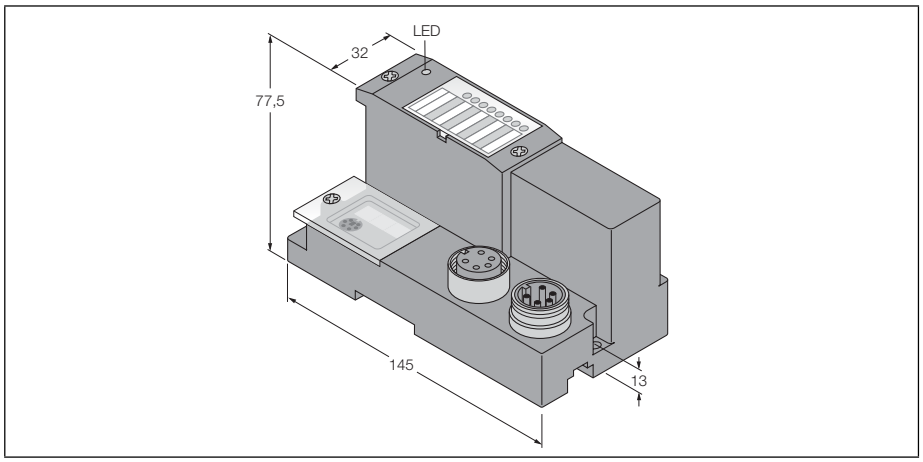
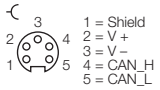
Gateway for BL67 I/O system
Interface for DeviceNet™
BL67-GW-DN



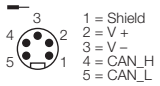
Type	BL67-GW-DN
Ident-No.	6827183
Supply voltage	24 VDC
Permissible range	11...26 VDC
Nominal current from module bus	600 mA
Max. field current supply	8 A
Max. system current supply	1.5 A
Transmission rate fieldbus	125/250/500 kbps, 2 decimally coded rotary switches
Fieldbus addressing range	0...63
Fieldbus adressing	2 decimally coded rotary switches
Service interface	PS/2 socket for I/O-ASSISTANT
Fieldbus connection technology	2 x 7/8'', 5-pole
Power connection technology	via DeviceNet™ cable
Fieldbus termination	external
Operating temperature	0 ... +55 °C
Storage temperature	-25 ... +85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **3 decimally coded rotary switches**
- **Degree of protection IP67**
- **LEDs for display of supply voltage, common alarm and bus errors**
- **Interface between the BL67 system and DeviceNet™**
- **120/250/500 kbps**
- **Two 5-pole 7/8" connectors for fieldbus connection**

Fieldbus



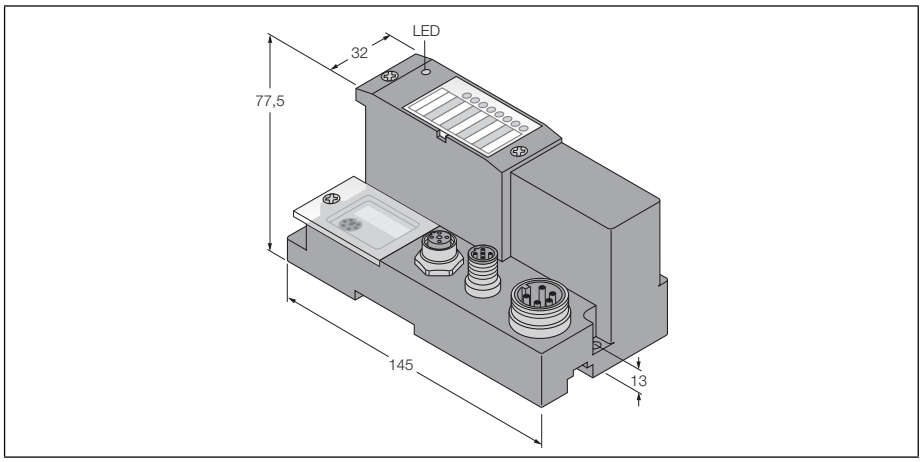
Fieldbus



Function principle

BL67 gateways are the head component of a BL67 station. They are designed to interface the modular fieldbus nodes to the higher level fieldbus (PROFIBUS-DP, DeviceNet™, CANopen, Ethernet).
All BL67 electronic modules communicate via the internal module bus, whose data are transferred to the fieldbus via the gateway, so that all I/O modules can be configured independently of the bus system.

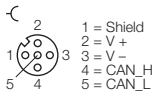
Gateway for BL67 I/O system
Interface for CANopen
BL67-GW-CO



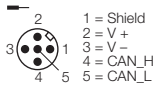
Type	BL67-GW-CO
Ident-No.	6827200
Supply voltage	24 VDC
Permissible range	18...30 VDC
Nominal current from module bus	600 mA
Max. field current supply	10 A
Max. system current supply	1.5 A
Transmission rate fieldbus	20 to 1000 kbps, DIP switch
Fieldbus addressing range	1...99
Fieldbus adressing	2 decimally coded rotary switches
Service interface	PS/2 socket for I/O-ASSISTANT
Fieldbus connection technology	2 x M12, 5-pole
Power connection technology	5-pole male 7/8'' connector
Fieldbus termination	external
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **3 decimally coded rotary switches**
- **Degree of protection IP67**
- **LEDs for display of supply voltage, common alarm and bus errors**
- **Interface between the BL67 system and CANopen**
- **1 Mbps**
- **Two 5-pole M12 connectors for fieldbus connection**
- **One 5-pole 7/8" connector for power connection**

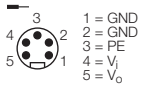
Fieldbus



Fieldbus



Power supply



Function principle

BL67 gateways are the head component of a BL67 station. They are designed to interface the modular fieldbus nodes to the higher level fieldbus (PROFIBUS-DP, DeviceNet™, CANopen, Ethernet).
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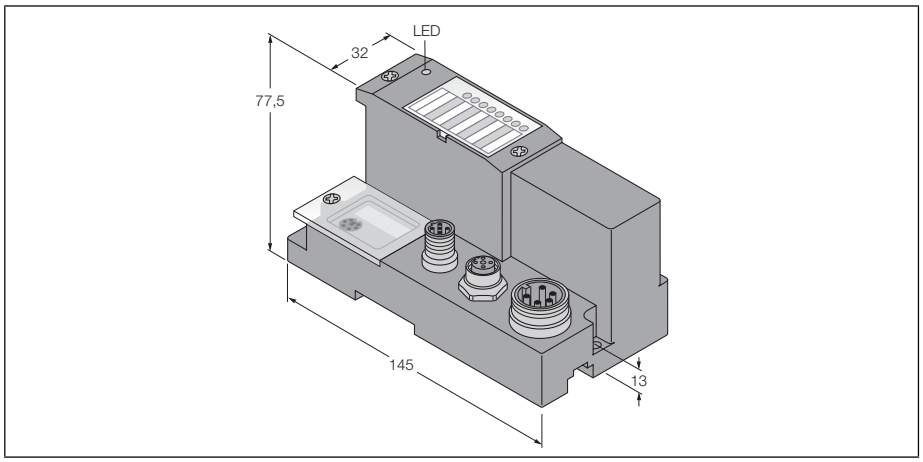
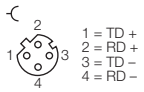
Gateway for BL67 I/O system
Interface for MODBUS TCP
BL67-GW-EN



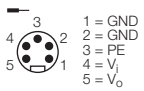
Type	BL67-GW-EN
Ident-No.	6827214
Supply voltage	24 VDC
Permissible range	18...30 V DC
Nominal current from module bus	600 mA
Max. field current supply	10 A
Max. system current supply	1.5 A
Transmission rate fieldbus	10/100 Mbps
Fieldbus adressing	rotary switch, BOOTP, DHCP, IO-ASSISTANT
Service interface	PS/2 socket for I/O-ASSISTANT
Fieldbus connection technology	female M12 x 1 connector, 4-pole, D-coded
Power connection technology	5-pole male 7/8" connector
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95% (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **3 decimally coded rotary switches**
- **Degree of protection IP67**
- **LEDs for display of supply voltage, common alarm and bus errors**
- **Interface between the BL67 system and MODBUS TCP**
- **10/100 Mbps**
- **One 4-pole M12 connector, D coding, for fieldbus connection**
- **One 5-pole 7/8" connector for power connection**

Fieldbus



Power supply



Function principle

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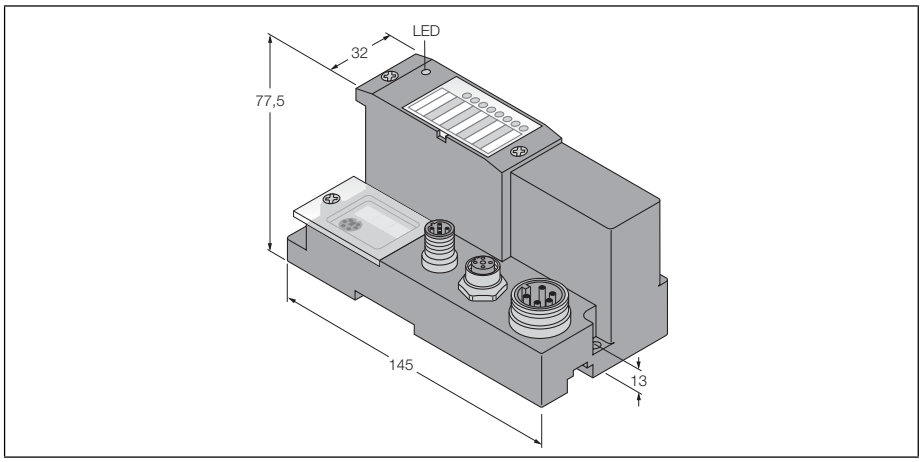
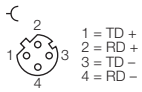
Gateway for BL67 I/O system
Interface for PROFINET IO
BL67-GW-EN-PN



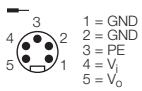
Type	BL67-GW-EN-PN
Ident-No.	6827228
Supply voltage	24 VDC
Permissible range	18...30 VDC
Nominal current from module bus	600 mA
Max. field current supply	10 A
Max. system current supply	1.5 A
Transmission rate fieldbus	10/100 Mbps
Fieldbus adressing	rotary switch, BOOTP, DHCP, IO-ASSISTANT
Service interface	PS/2 socket for I/O-ASSISTANT
Fieldbus connection technology	female M12 x 1 connector, 4-pole, D-coded
Power connection technology	5-pole male 7/8" connector
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **3 decimally coded rotary switches**
- **Degree of protection IP67**
- **LEDs for display of supply voltage, common alarm and bus errors**
- **Interface between BL67 system and PROFINET IO**
- **10/100 Mbps**
- **One 4-pole M12 connector, D coding, for fieldbus connection**
- **One 5-pole 7/8" connector for power connection**

Fieldbus



Power supply



Function principle

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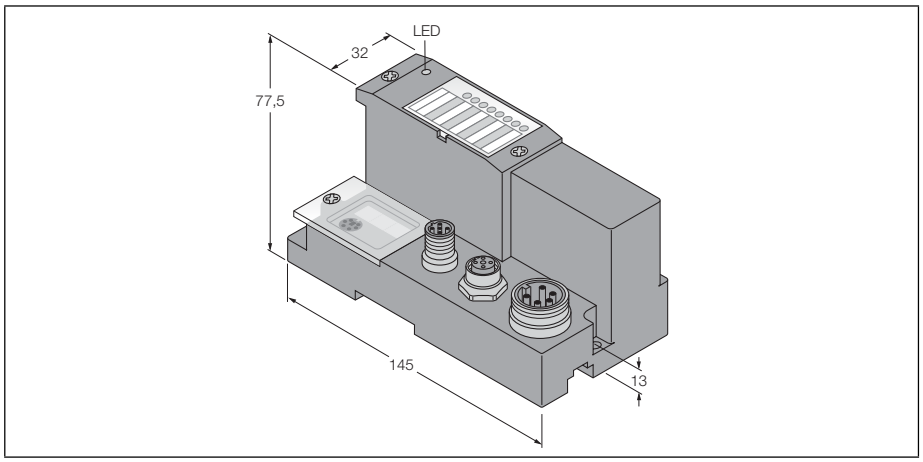
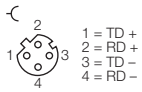
Gateway for BL67 I/O system
Interface for EtherNet/IP
BL67-GW-EN-IP



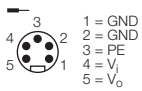
Type	BL67-GW-EN-IP
Ident-No.	6827229
Supply voltage	24 VDC
Permissible range	18...30 VDC
Nominal current from module bus	600 mA
Max. field current supply	10 A
Max. system current supply	1.5 A
Transmission rate fieldbus	10/100 Mbps
Fieldbus adressing	rotary switch, BOOTP, DHCP, IO-ASSISTANT
Service interface	PS/2 socket for I/O-ASSISTANT
Fieldbus connection technology	female M12 x 1 connector, 4-pole, D-coded
Power connection technology	5-pole male 7/8" connector
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **3 decimally coded rotary switches**
- **Degree of protection IP67**
- **LEDs for display of supply voltage, common alarm and bus errors**
- **Interface between the BL67 system and EtherNet/IP**
- **10/100 Mbps**
- **One 4-pole M12 connector, D coding, for fieldbus connection**
- **One 5-pole 7/8" connector for power connection**

Fieldbus



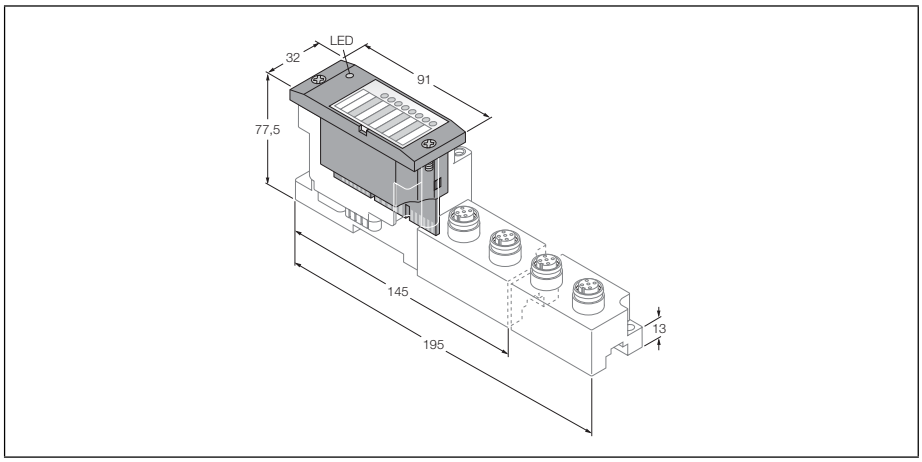
Power supply



Function principle

BL67 gateways are the head component of a BL67 station. They are designed to interface the modular fieldbus nodes to the higher level fieldbus (PROFIBUS-DP, DeviceNet™, CANopen, Ethernet).
All BL67 electronic modules communicate via the internal module bus, whose data are transferred to the fieldbus via the gateway, so that all I/O modules can be configured independently of the bus system.

BL67 Electronic modules
Power feeding module with diagnostics
BL67-PF-24VDC



- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of system status, field supply and diagnostic information**
- **Can be used to form potential groups**
- **Field supply featuring a rated voltage of 24 VDC**

Type	BL67-PF-24VDC
Ident-No.	6827182
Nominal voltage V_i	24 VDC
Nominal voltage V_o	24 VDC
Max. load current I_o	10 A
Permissible range	18...30 VDC
Nominal current from module bus	30 mA
Number of diagnostics bits	3
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

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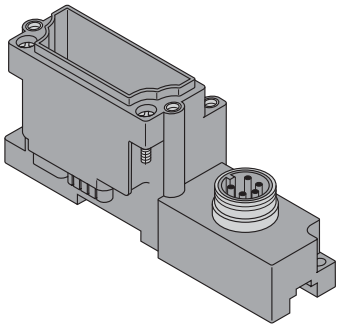
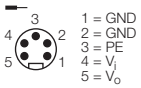
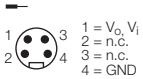
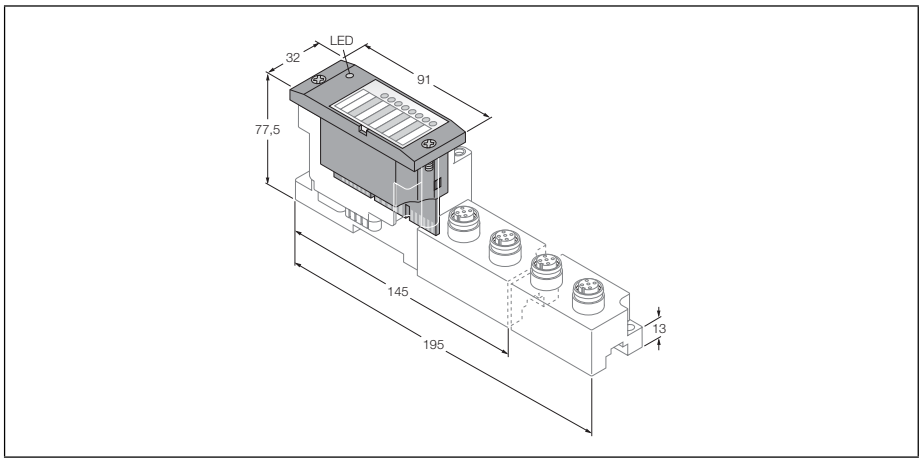
Industrial Automation

Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-1RSM** Ident-No. 6827190 1 x 7/8'', 5-pole, male **BL67-B-1RSM-4** Ident-No. 6827201 1 x 7/8'', 4-pole, male	Pin configuration  Pin configuration 

3

BL67 Electronic modules
4 digital inputs
BL67-4DI-P



Type	BL67-4DI-P
Ident-No.	6827171
Number of channels	4
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	40 mA
Nominal current from module bus	30 mA
Power loss, typical	0.25 W
Inputs	
Input type	pnp
Type of input diagnostics	group diagnostics
Signal voltage low level	< 4.5 V
Signal voltage high level	7...30 V
Signal current low level	< 1.5 mA
Signal current high level	2.1...3.7 mA
Input filter	0.25 ms
Potential isolation	electronics to the field level
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration check	according to EN 61131
Shock testing	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **4 digital inputs, 24 VDC**
- **pnp**

Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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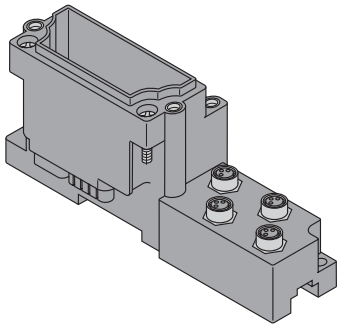
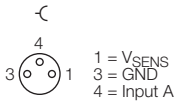
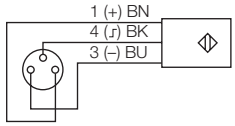
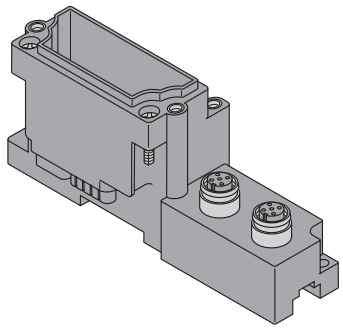
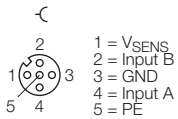
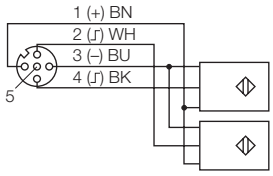
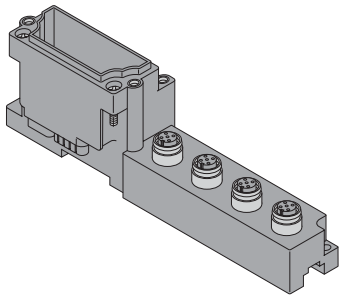
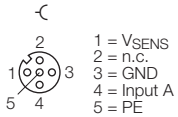
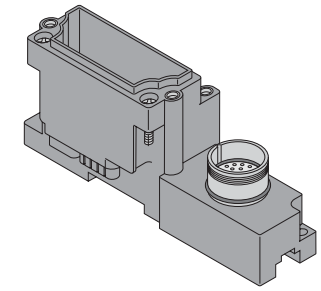
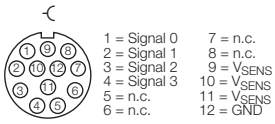
Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-4M8** Ident-No. 6827189 4 x M8, 3-pole, female Comments Matching connection cable (for example): SKP3-2-SSP3/S90 Ident-No. 8008685	Pin configuration  Wiring diagram 

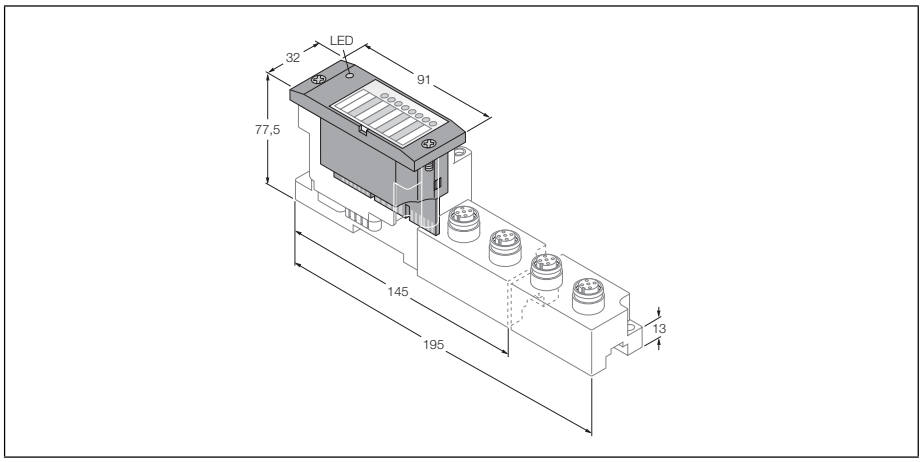
Dimension drawing	Type	Connection
	**BL67-B-2M12** Ident-No. 6827186 2 x M12, 5-pole, female, A-coded **BL67-B-2M12-P** Ident-No. 6827194 2 x M12, 5-pole, female, A-coded, paired Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-4M12** Ident-No. 6827187 4 x M12, 5-pole, female, A-coded Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-1M23** Ident-No. 6827213 1 x M23, 12-pole, female Comments field-wireable connectors (example): FW-M23ST12Q-G-LT-ME-XX-10 Ident-No. 6604070	Pin configuration 

3

BL67 Electronic modules
8 digital inputs
BL67-8DI-P



Type	BL67-8DI-P
Ident-No.	6827170
Number of channels	8
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	40 mA
Nominal current from module bus	30 mA
Power loss, typical	0.25 W
Inputs	
Input type	pnp
Type of input diagnostics	group diagnostics
Signal voltage low level	< 4.5 V
Signal voltage high level	7...30 V
Signal current low level	< 1.5 mA
Signal current high level	2.1...3.7 mA
Input filter	0.25 ms
Potential isolation	electronics to the field level
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **8 digital inputs, 24 VDC**
- **pnp**

Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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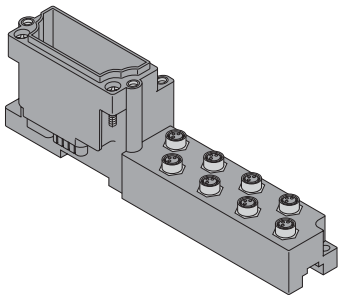
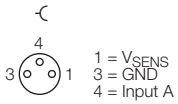
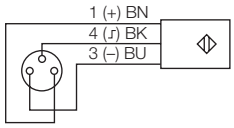
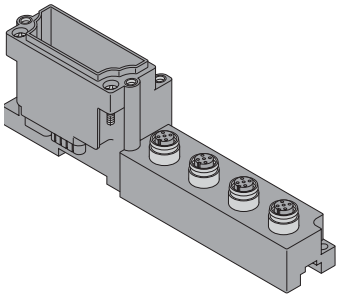
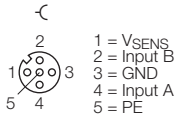
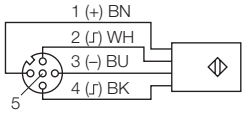
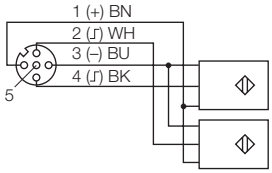
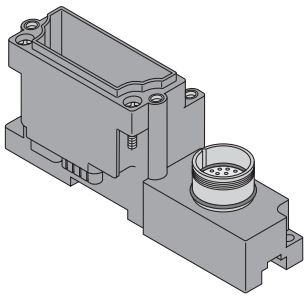
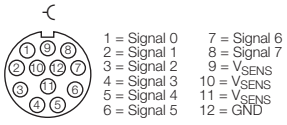
Compatible base modules

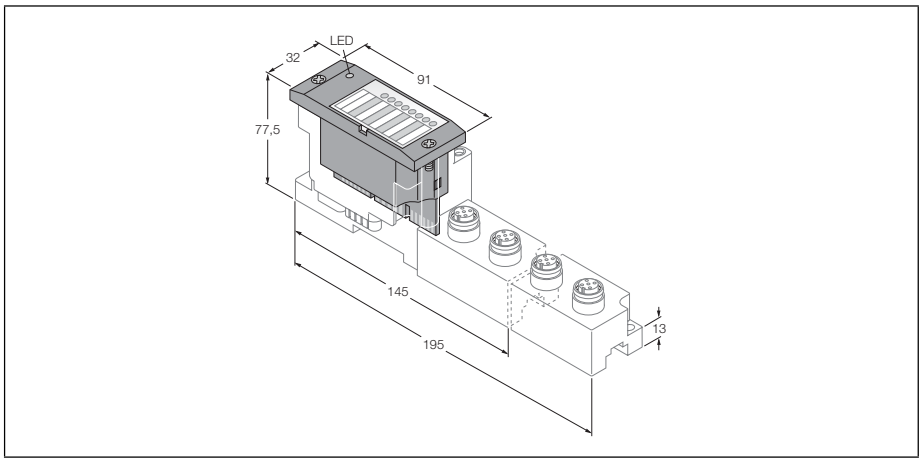
Dimension drawing	Type	Connection
	**BL67-B-8M8** Ident-No. 6827188 8 x M8, 3-pole, female Comments Matching connection cable (for example): SKP3-2-SSP3/S90 Ident-No. 8008685	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-4M12** Ident-No. 6827187 4 x M12, 5-pole, female **BL67-B-4M12-P** Ident-No. 6827195 4 x M12, 5-pole, female, paired Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-1M23** Ident-No. 6827213 1 x M23, 12-pole, female Comments field-wireable connectors (example): FW-M23ST12Q-G-LT-ME-XX-10 Ident-No. 6604070	Pin configuration 

3

BL67 Electronic modules
4 digital inputs
BL67-4DI-PD



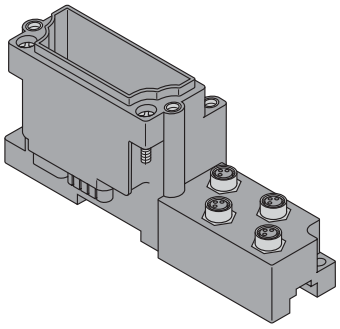
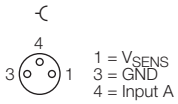
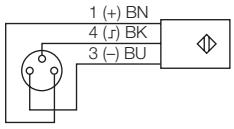
Type	BL67-4DI-PD
Ident-No.	6827204
Number of channels	4
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	100 mA
Nominal current from module bus	30 mA
Power loss, typical	1.5 W
Inputs	
Input type	pnp
Type of input diagnostics	channel diagnostics
Signal voltage low level	< 4.5 V
Signal voltage high level	7...30 V
Signal current low level	< 1.5 mA
Signal current high level	2.1...3.7 mA
Input filter	0.25; 2.5 ms
Potential isolation	electronics to the field level
Number of diagnostics bits	6
No. of parameter bytes	4
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

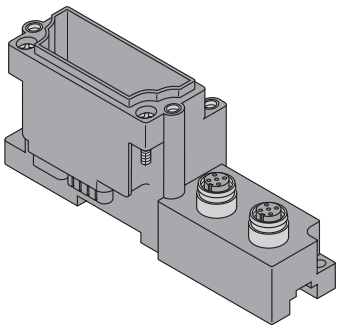
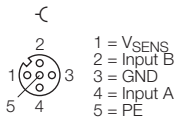
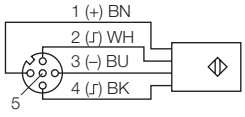
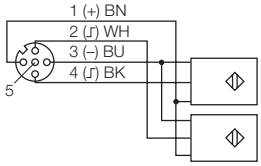
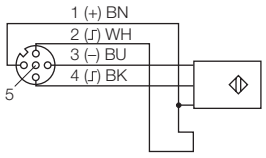
- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **4 digital inputs, 24 VDC**
- **pnp**
- **Channel diagnostics**
- **Wire-break detection**
- **Selection of filter times**
- **Input inverting possible**

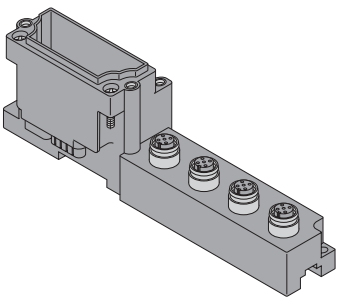
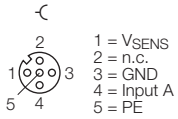
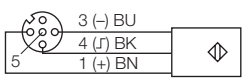
Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

Compatible base modules

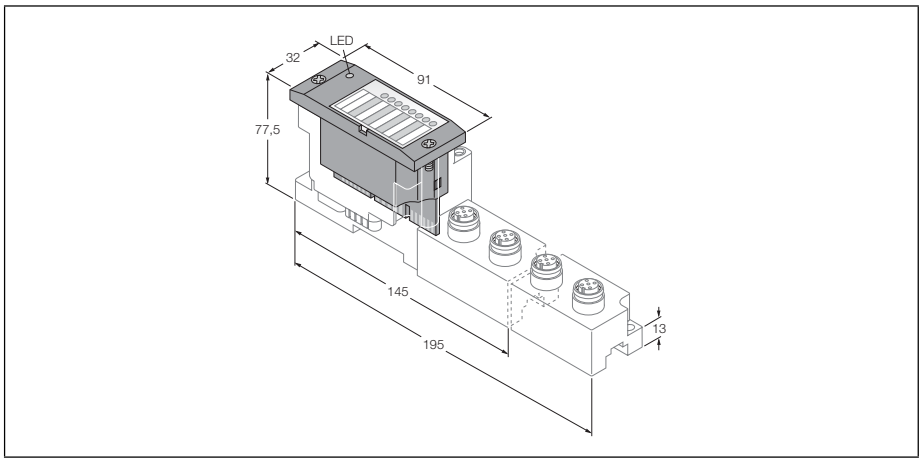
Dimension drawing	Type	Connection
	**BL67-B-4M8** Ident-No. 6827189 4 x M8, 3-pole, female Comments Matching connection cable (for example): SKP3-2-SSP3/S90 Ident-No. 8008685	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-2M12** Ident-No. 6827186 2 x M12, 5-pole, female, A-coded **BL67-B-2M12-P** Ident-No. 6827194 2 x M12, 5-pole, female, A-coded, paired Comments If the wire-break detection has been activated, on the sensor side a jumper between pin 1 (24 VDC) and pin 2 (diagnostics input) must be implemented for monitoring of wire-breaks.	Pin configuration  Wiring diagram  Wiring diagram  Wire-break detection wiring diagram 

Dimension drawing	Type	Connection
	BL67-B-4M12 Ident-No. 6827187 4 x M12, 5-pole, female, A-coded Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram 

BL67 Electronic modules
8 digital inputs
BL67-8DI-PD

Industrial Automation



Type	BL67-8DI-PD
Ident-No.	6827205
Number of channels	8
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	100 mA
Nominal current from module bus	30 mA
Power loss, typical	1.5 W
Inputs	
Input type	pnp
Type of input diagnostics	channel diagnostics
Signal voltage low level	< 4.5 V
Signal voltage high level	7...30 V
Signal current low level	< 1.5 mA
Signal current high level	2.1...3.7 mA
Input filter	0.25; 2.5 ms
Potential isolation	electronics to the field level
Number of diagnostics bits	12
No. of parameter bytes	8
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **8 digital inputs, 24 VDC**
- **pnp**
- **Channel diagnostics**
- **Wire-break detection**
- **Selection of filter times**
- **Input inverting possible**

Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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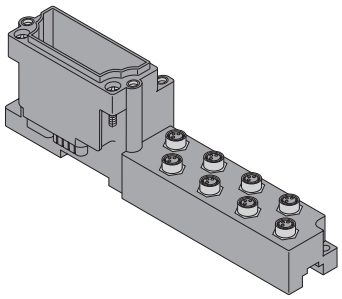
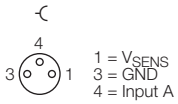
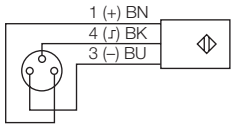
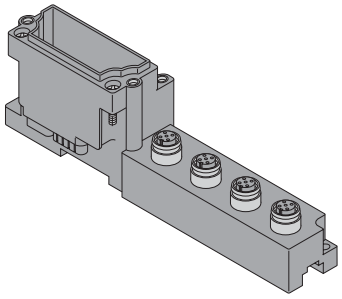
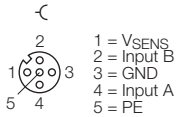
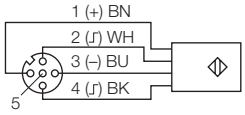
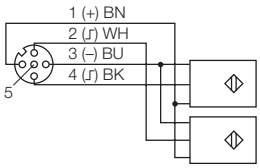
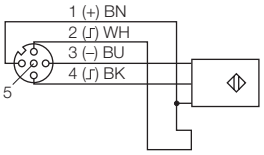
BL67 Electronic modules
8 digital inputs
BL67-8DI-PD

Industrial Automation

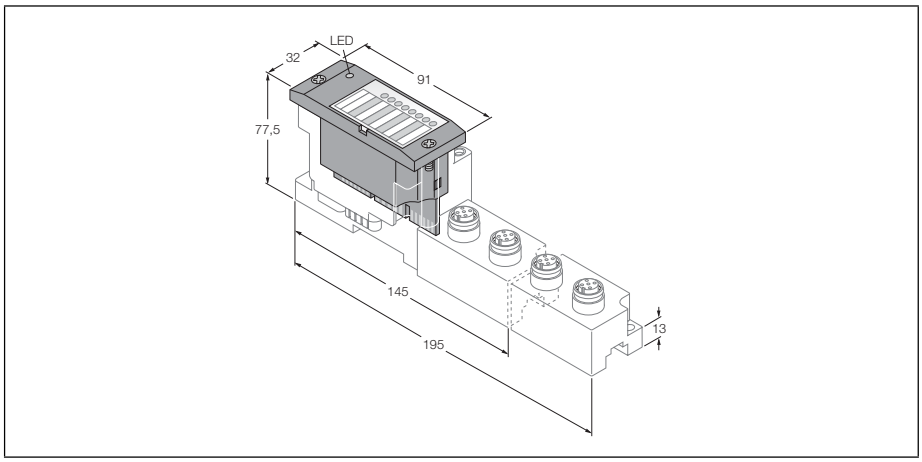
Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-8M8** Ident-No. 6827188 8 x M8, 3-pole, female Comments Matching connection cable (for example): SKP3-2-SSP3/S90 Ident-No. 8008685	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-4M12** Ident-No. 6827187 4 x M12, 5-pole, female **BL67-B-4M12-P** Ident-No. 6827195 4 x M12, 5-pole, female, paired Comments If the wire-break detection has been activated, on the sensor side a jumper between pin 1 (24 VDC) and pin 2 (diagnostics input) must be implemented for monitoring of wire-breaks.	Pin configuration  Wiring diagram  Wiring diagram  wire-break detection wiring diagram 

3

BL67 Electronic modules
4 digital inputs
BL67-4DI-N



Type	BL67-4DI-N
Ident-No.	6827206
Number of channels	4
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	1 mA
Nominal current from module bus	30 mA
Power loss, typical	1.3 W
Inputs	
Input type	npn
Type of input diagnostics	group diagnostics
Signal voltage low level	> 7 V
Signal voltage high level	< 5 V
Signal current low level	< 2.5 mA
Signal current high level	> 3 mA
Input filter	0.25 ms
Potential isolation	electronics to the field level
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **4 digital inputs, 24 VDC**
- **npn**

Function principle
BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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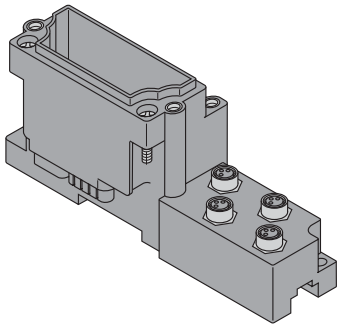
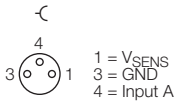
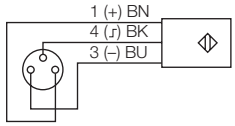
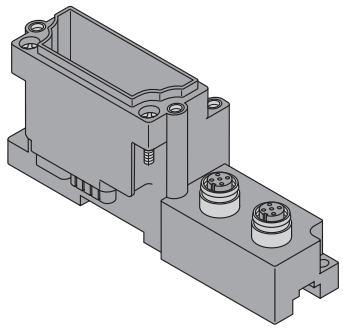
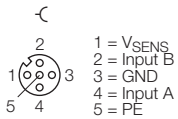
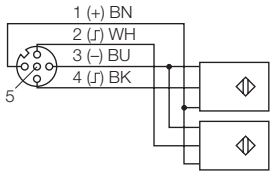
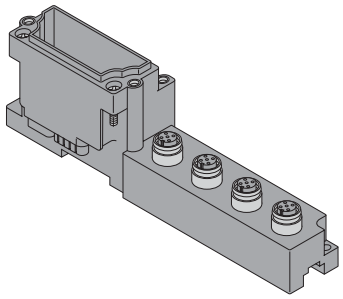
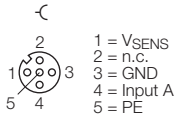
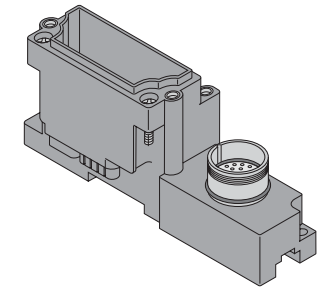
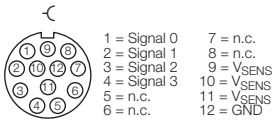
Compatible base modules

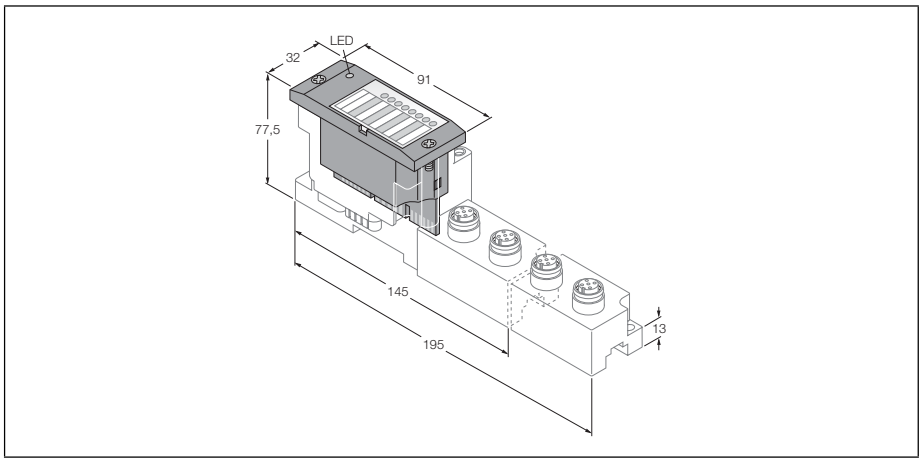
Dimension drawing	Type	Connection
	**BL67-B-4M8** Ident-No. 6827189 4 x M8, 3-pole, female Comments Matching connection cable (for example): SKP3-2-SSP3/S90 Ident-No. 8008685	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-2M12** Ident-No. 6827186 2 x M12, 5-pole, female, A-coded **BL67-B-2M12-P** Ident-No. 6827194 2 x M12, 5-pole, female, A-coded, paired Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-4M12** Ident-No. 6827187 4 x M12, 5-pole, female, A-coded Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-1M23** Ident-No. 6827213 1 x M23, 12-pole, female Comments field-wireable connectors (example): FW-M23ST12Q-G-LT-ME-XX-10 Ident-No. 6604070	Pin configuration 

BL67 Electronic modules
8 digital inputs
BL67-8DI-N



Type	BL67-8DI-N
Ident-No.	6827207
Number of channels	8
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	1 mA
Nominal current from module bus	30 mA
Power loss, typical	1.3 W
Inputs	
Input type	npn
Type of input diagnostics	group diagnostics
Signal voltage low level	> 7 V
Signal voltage high level	< 5 V
Signal current low level	< 1.2 mA
Signal current high level	> 1.5 mA
Input filter	0.25 ms
Potential isolation	electronics to the field level
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **8 digital inputs, 24 VDC**
- **npn**

Function principle
BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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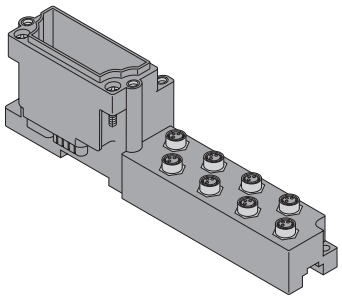
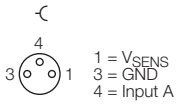
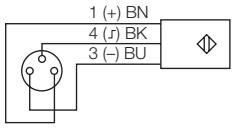
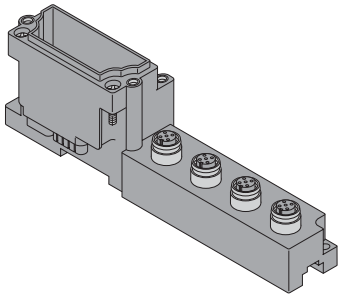
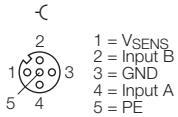
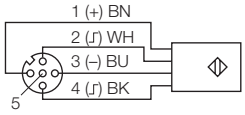
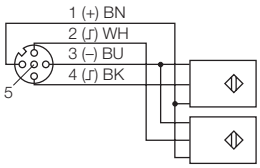
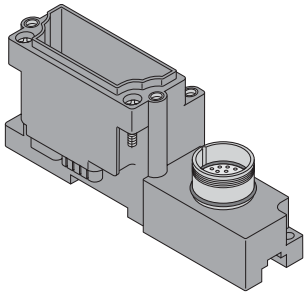
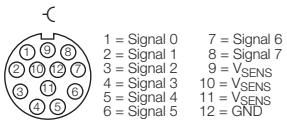
Industrial Automation

Compatible base modules

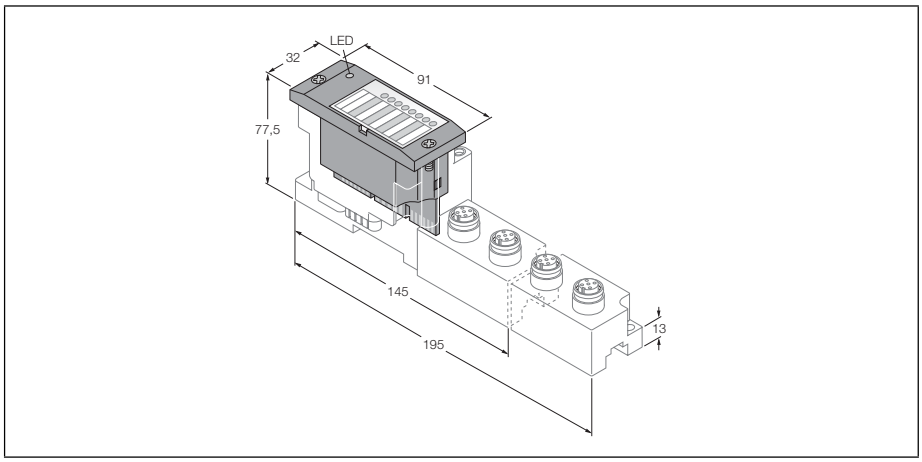
Dimension drawing	Type	Connection
	**BL67-B-8M8** Ident-No. 6827188 8 x M8, 3-pole, female Comments Matching connection cable (for example): SKP3-2-SSP3/S90 Ident-No. 8008685	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-4M12** Ident-No. 6827187 4 x M12, 5-pole, female **BL67-B-4M12-P** Ident-No. 6827195 4 x M12, 5-pole, female, paired Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-1M23** Ident-No. 6827213 1 x M23, 12-pole, female Comments field-wireable connectors (example): FW-M23ST12Q-G-LT-ME-XX-10 Ident-No. 6604070	Pin configuration 

3

BL67 Electronic modules
4 digital outputs
BL67-4DO-0.5A-P



Type	BL67-4DO-0.5A-P
Ident-No.	6827173
Number of channels	4
Nominal voltage V_O	24 VDC
Nominal current from supply terminal	100 mA
Nominal current from module bus	30 mA
Power loss, typical	1.5 W
Outputs	
Output type	pnp
Output voltage	24 VDC
Output current per channel	0.5 A
Output delay	3 ms
Load type	resistive, inductive, lamp load
Ohmic load resistance	> 48 Ω
Inductive load resistance	< 1.2 H
Lamp load	< 3 W
Ohmic switching frequency	< 200 Hz
Inductive switching frequency	< 2 Hz
Lamp load switching frequency	< 20 Hz
Short-circuit protection	yes
Load factor	1
Potential isolation	electronics to the field level
Number of diagnostics bits	4
Operating temperature	0...+55 °C
Storage temperature	-25 ... +85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **4 digital outputs, 24 VDC**
- **0.5 A max.**
- **pnp**

Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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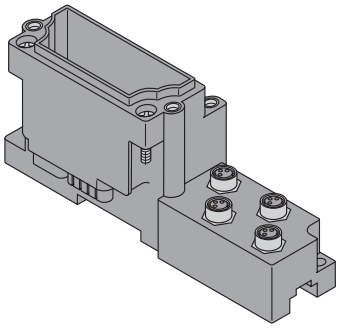
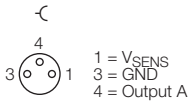
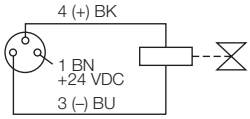
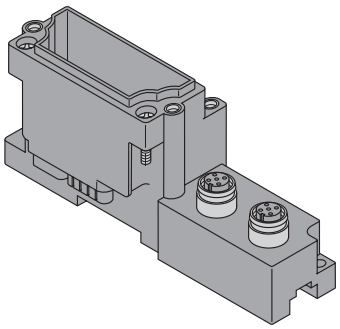
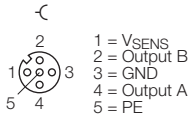
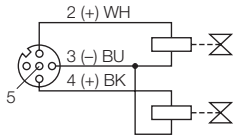
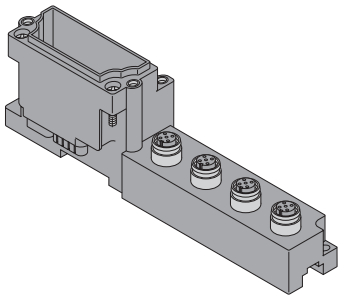
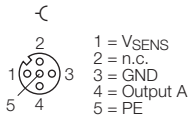
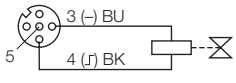
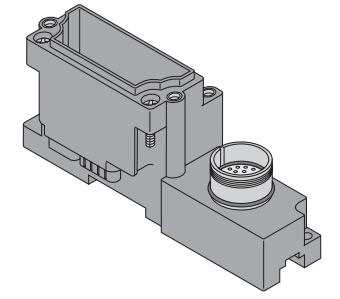
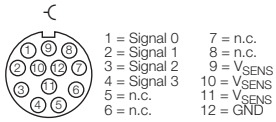
Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-4M8** Ident-No. 6827189 4 x M8, 3-pole, female Comments Matching connection cable (for example): SKP3-2-SSP3/S90 Ident-No. 8008685	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-2M12** Ident-No. 6827186 2 x M12, 5-pole, female, A-coded **BL67-B-2M12-P** Ident-No. 6827194 2 x M12, 5-pole, female, A-coded, paired Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram 

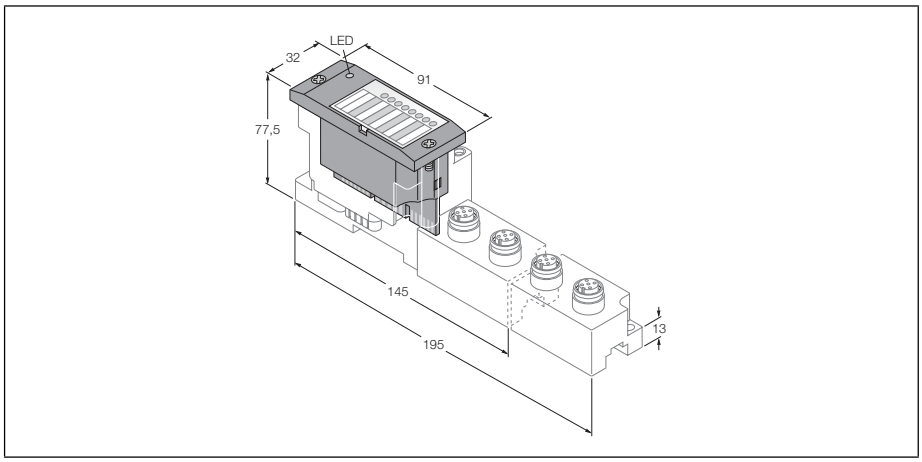
Dimension drawing	Type	Connection
	**BL67-B-4M12** Ident-No. 6827187 4 x M12, 5-pole, female, A-coded Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-1M23** Ident-No. 6827213 1 x M23, 12-pole, female Comments field-wireable connectors (example): FW-M23ST12Q-G-LT-ME-XX-10 Ident-No. 6604070	Pin configuration 

3

BL67 Electronic modules
4 digital outputs
BL67-4DO-2A-P

Industrial Automation



- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **4 digital outputs, 24 VDC**
- **2 A max.**
- **pnp**

Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

Type	BL67-4DO-2A-P
Ident-No.	6827174
Number of channels	4
Nominal voltage V_o	24 VDC
Nominal current from supply terminal	100 mA
Nominal current from module bus	30 mA
Power loss, typical	1.5 W
Outputs	
Output type	pnp
Output voltage	24 VDC
Output current per channel	2 A
Output delay	3 ms
Load type	resistive, inductive, lamp load
Ohmic load resistance	> 12 Ω
Inductive load resistance	< 1.2 H
Lamp load	< 10 W
Ohmic switching frequency	< 200 Hz
Inductive switching frequency	< 2 Hz
Lamp load switching frequency	< 20 Hz
Short-circuit protection	yes
Load factor	1
Potential isolation	electronics to the field level
Number of diagnostics bits	4
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

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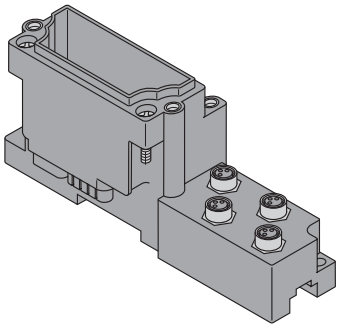
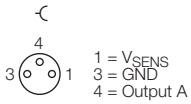
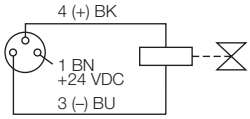
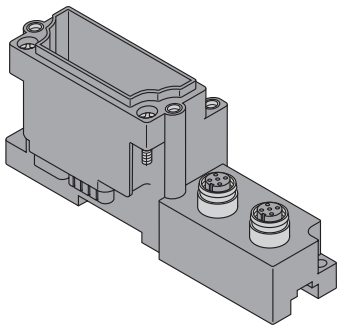
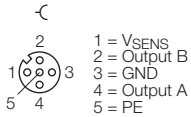
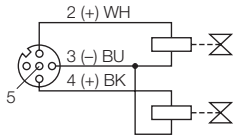
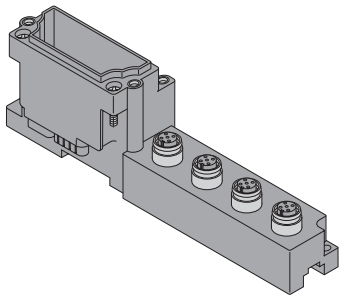
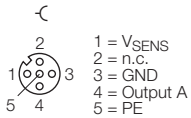
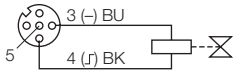
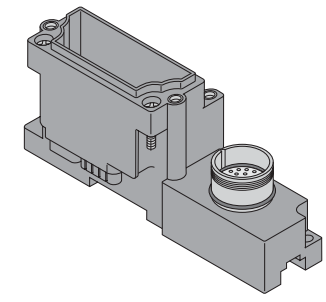
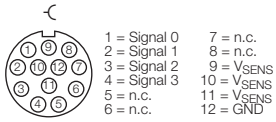
Compatible base modules

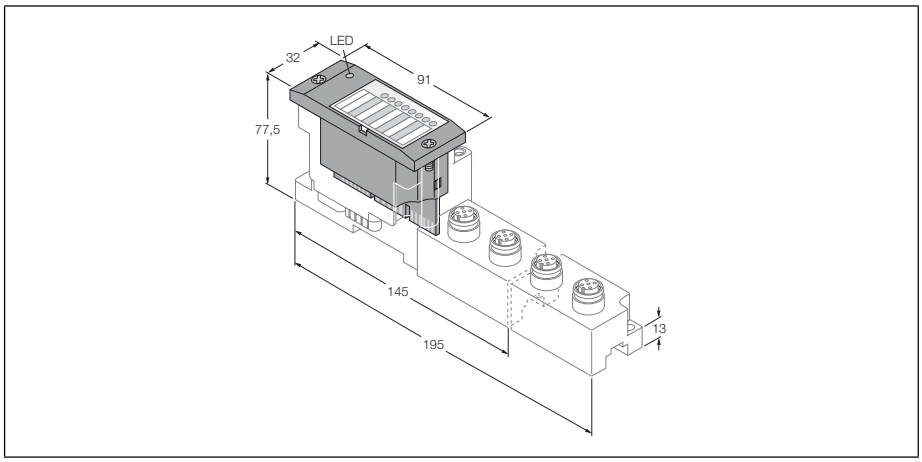
Dimension drawing	Type	Connection
	**BL67-B-4M8** Ident-No. 6827189 4 x M8, 3-pole, female Comments Matching connection cable (for example): SKP3-2-SSP3/S90 Ident-Nr. 8008685	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-2M12** Ident-No. 6827186 2 x M12, 5-pole, female, A-coded **BL67-B-2M12-P** Ident-No. 6827194 2 x M12, 5-pole, female, A-coded, paired Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-Nr. 8006739	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-4M12** Ident-No. 6827187 4 x M12, 5-pole, female, A-coded Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-1M23** Ident-No. 6827213 1 x M23, 12-pole, female Comments field-wireable connector (for example): FW-M23ST12Q-G-LT-ME-XX-10 Ident-Nr. 6604070	Pin configuration 

BL67 Electronic modules
8 digital outputs
BL67-8DO-0.5A-P



Type	BL67-8DO-0.5A-P
Ident-No.	6827172
Number of channels	8
Nominal voltage V_O	24 VDC
Nominal current from supply terminal	100 mA
Nominal current from module bus	30 mA
Power loss, typical	1.5 W
Outputs	
Output type	pnp
Output voltage	24 VDC
Output current per channel	0.5 A
Output delay	3 ms
Load type	resistive, inductive, lamp load
Ohmic load resistance	> 48 Ω
Inductive load resistance	< 1.2 H
Lamp load	< 3 W
Ohmic switching frequency	< 200 Hz
Inductive switching frequency	< 2 Hz
Lamp load switching frequency	< 20 Hz
Short-circuit protection	yes
Load factor	1
Potential isolation	electronics to the field level
Number of diagnostics bits	8
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **8 digital outputs, 24 VDC**
- **0.5 A max.**
- **pnp**

Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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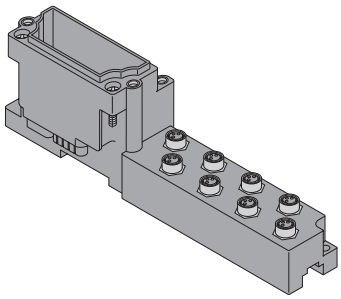
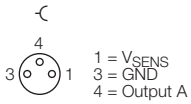
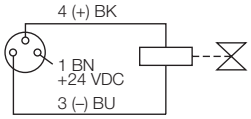
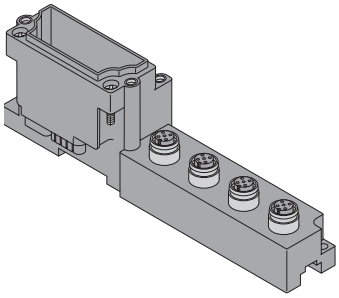
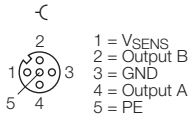
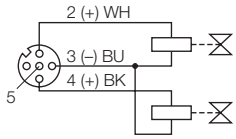
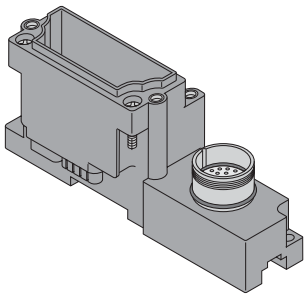
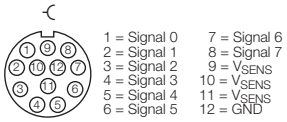
Industrial Automation

Compatible base modules

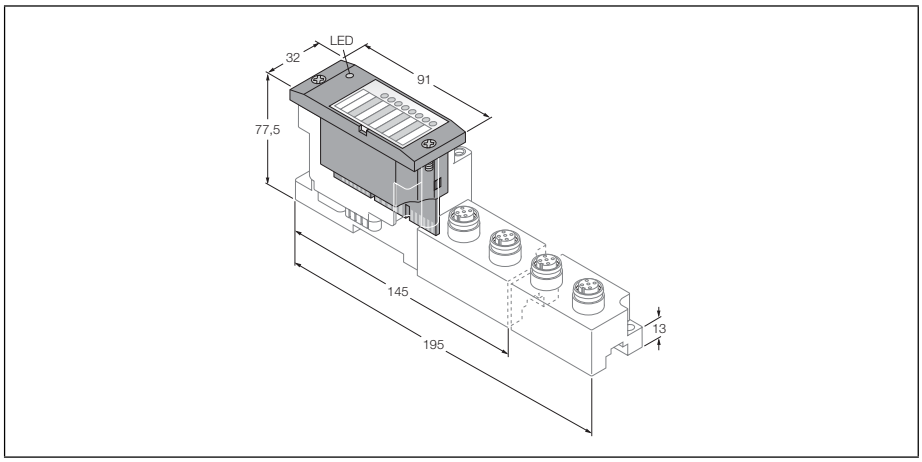
Dimension drawing	Type	Connection
	**BL67-B-8M8** Ident-No. 6827188 8 x M8, 3-pole, female Comments Matching connection cable (for example): SKP3-2-SSP3/S90 Ident-No. 8008685	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-4M12** Ident-No. 6827187 4 x M12, 5-pole, female **BL67-B-4M12-P** Ident-No. 6827195 4 x M12, 5-pole, female, paired Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-1M23** Ident-No. 6827213 1 x M23, 12-pole, female Comments field-wireable connectors (example): FW-M23ST12Q-G-LT-ME-XX-10 Ident-No. 6604070	Pin configuration 

3

BL67 Electronic modules
16 digital outputs
BL67-16DO-0.1A-P



Type	BL67-16DO-0.1A-P
Ident-No.	6827221
Number of channels	16
Nominal voltage V_O	24 VDC
Nominal current from supply terminal	100 mA
Nominal current from module bus	30 mA
Power loss, typical	1.5 W
Outputs	
Output type	pnp
Output voltage	24 VDC
Output current per channel	0.1 A
Output delay	3 ms
Load type	resistive, inductive
Ohmic load resistance	> 250 Ω
Ohmic switching frequency	< 200 Hz
Inductive switching frequency	< 2 Hz
Short-circuit protection	yes
Load factor	1
Potential isolation	electronics to the field level
Number of diagnostics bits	16
No. of parameter bytes	2
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **16 digital outputs, 24 VDC**
- **0.1 A max.**
- **pnp**
- **Channel diagnostics**

Function principle
BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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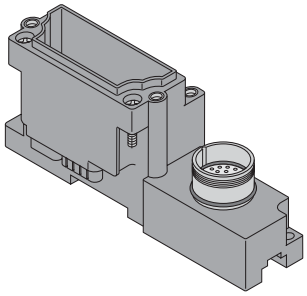
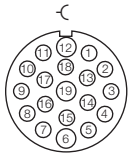
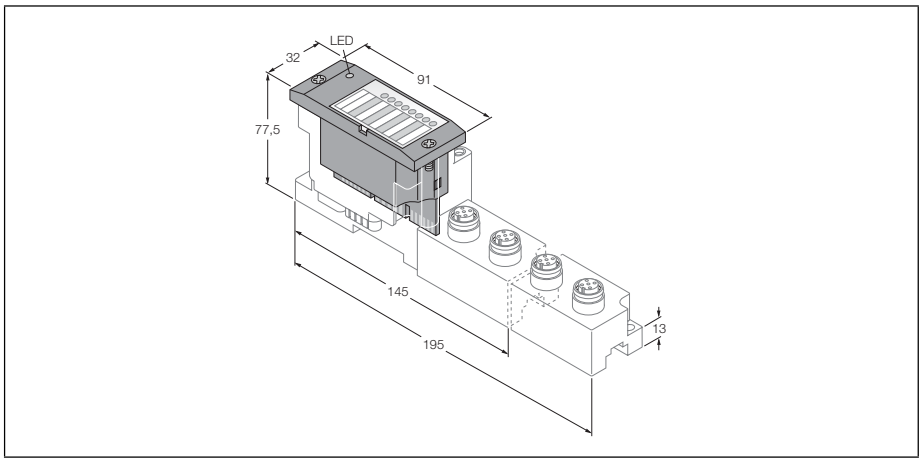
Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-1M23-19** Ident-No. 6827216 1 x M23, 19-pole, female Comments field-wireable connector (for example): FW-M23ST19Q-G-LT-ME-XX-10 Ident-Nr. 6604208	Pin configuration  1 = Output 14 2 = Output 10 3 = Output 6 4 = Output 3 5 = Output 2 6 = GND 7 = Output 1 8 = Output 5 9 = Output 9 10 = Output 13 11 = Output 12 12 = PE 13 = Output 11 14 = Output 7 15 = Output 0 16 = Output 4 17 = Output 8 18 = Output 15 19 = V_{SENS}

BL67 Electronic modules
4 digital outputs
BL67-4DO-2A-N



Type	BL67-4DO-2A-N
Ident-No.	6827210
Number of channels	4
Nominal voltage V_O	24 VDC
Nominal current from supply terminal	100 mA
Nominal current from module bus	30 mA
Power loss, typical	1.5 W
Outputs	
Output type	npn
Output voltage	24 VDC
Output current per channel	2 A
Output delay	3 ms
Load type	resistive, inductive, lamp load
Ohmic load resistance	> 12 Ω
Inductive load resistance	< 1.2 H
Lamp load	< 6 W
Ohmic switching frequency	< 200 Hz
Inductive switching frequency	< 2 Hz
Lamp load switching frequency	< 20 Hz
Short-circuit protection	yes
Load factor	1
Potential isolation	electronics to the field level
Number of diagnostics bits	4
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **4 digital outputs, 24 VDC**
- **2 A max.**
- **npn**

Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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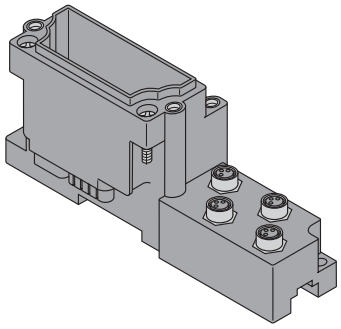
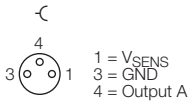
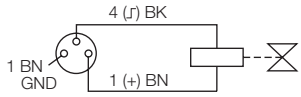
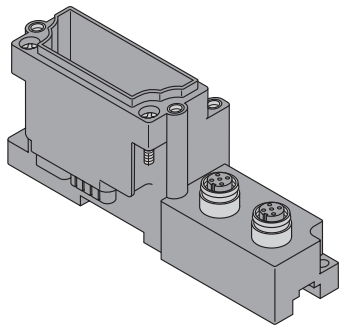
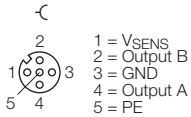
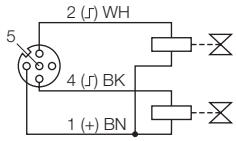
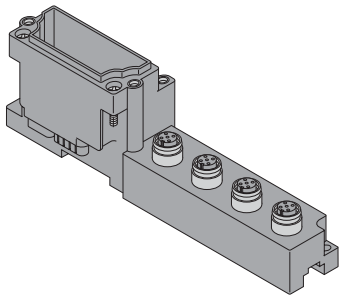
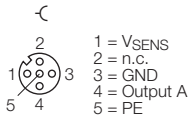
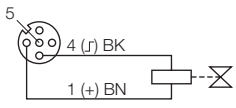
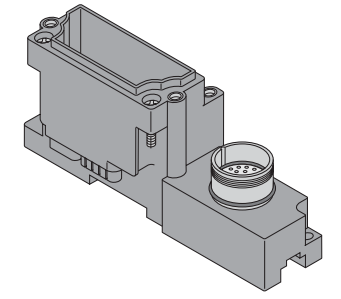
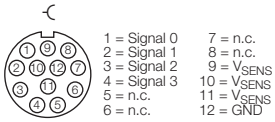
Compatible base modules

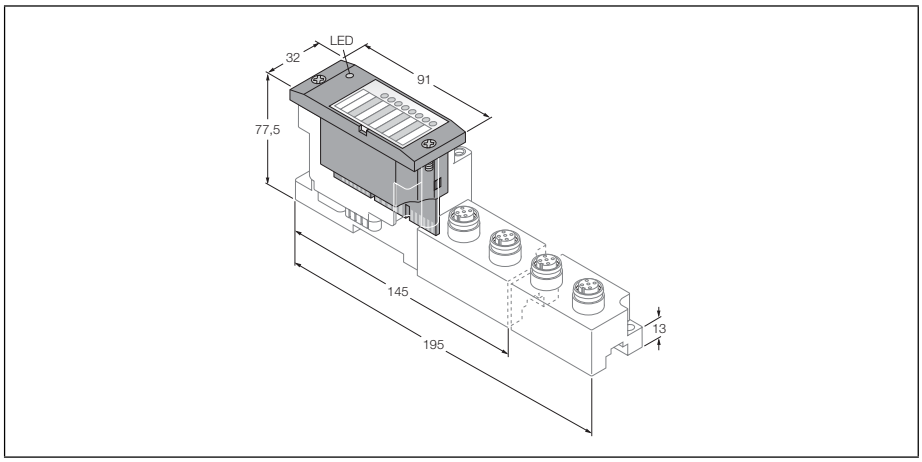
Dimension drawing	Type	Connection
	**BL67-B-4M8** Ident-No. 6827189 4 x M8, 3-pole, female Comments Matching connection cable (for example): SKP3-2-SSP3/S90 Ident-No. 8008685	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-2M12** Ident-No. 6827186 2 x M12, 5-pole, female, A-coded **BL67-B-2M12-P** Ident-No. 6827194 2 x M12, 5-pole, female, A-coded, paired Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-4M12** Ident-No. 6827187 4 x M12, 5-pole, female, A-coded Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-1M23** Ident-No. 6827213 1 x M23, 12-pole, female Comments field-wireable connector (for example): FW-M23ST12Q-G-LT-ME-XX-10 Ident-No. 6604070	Pin configuration 

BL67 Electronic modules
8 digital outputs
BL67-8DO-0.5A-N



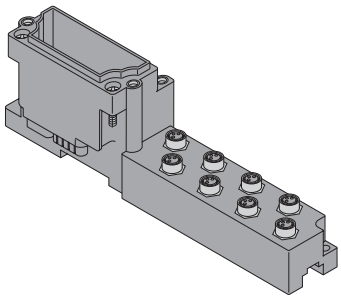
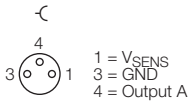
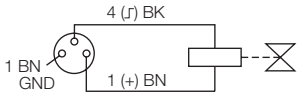
Type	BL67-8DO-0.5A-N
Ident-No.	6827209
Number of channels	8
Nominal voltage V_O	24 VDC
Nominal current from supply terminal	100 mA
Nominal current from module bus	30 mA
Power loss, typical	1.5 W
Outputs	
Output type	npn
Output voltage	24 VDC
Output current per channel	0.5 A
Output delay	3 ms
Load type	resistive, inductive, lamp load
Ohmic load resistance	> 48 Ω
Inductive load resistance	< 1.2 H
Lamp load	< 3 W
Ohmic switching frequency	< 200 Hz
Inductive switching frequency	< 2 Hz
Lamp load switching frequency	< 20 Hz
Short-circuit protection	yes
Load factor	1
Potential isolation	electronics to the field level
Number of diagnostics bits	8
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

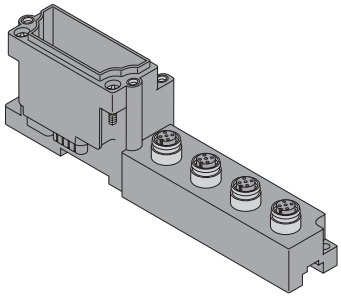
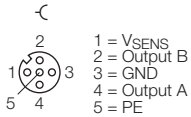
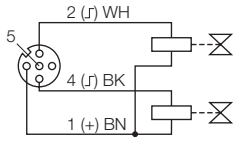
- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **8 digital outputs, 24 VDC**
- **0.5 A max.**
- **npn**

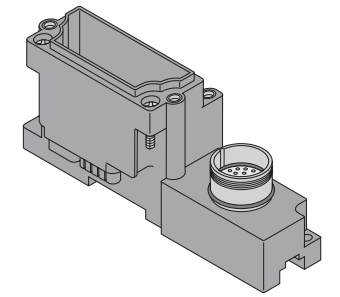
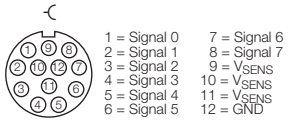
Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-8M8** Ident-No. 6827188 8 x M8, 3-pole, female Comments Matching connection cable (for example): SKP3-2-SSP3/S90 Ident-No. 8008685	Pin configuration  Wiring diagram 

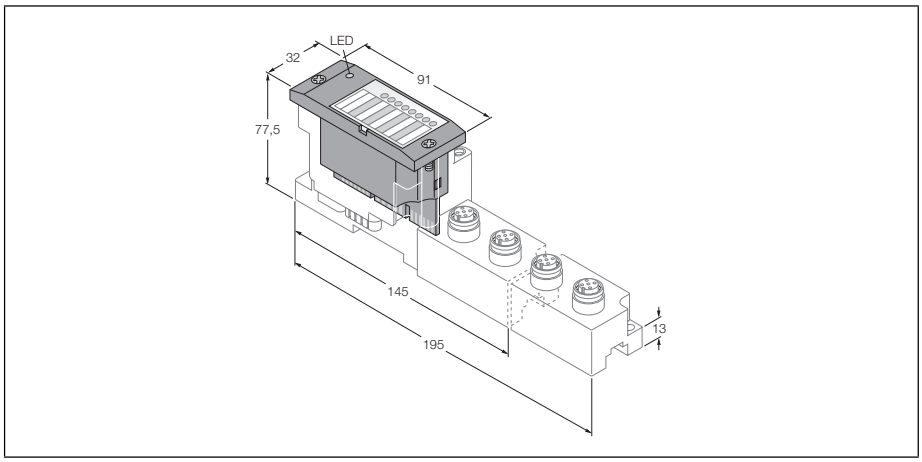
Dimension drawing	Type	Connection
	**BL67-B-4M12** Ident-No. 6827187 4 x M12, 5-pole, female **BL67-B-4M12-P** Ident-No. 6827195 4 x M12, 5-pole, female, paired Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-1M23** Ident-No. 6827213 1 x M23, 12-pole, female Comments field-wireable connector (for example): FW-M23ST12Q-G-LT-ME-XX-10 Ident-No. 6604070	Pin configuration 

3

BL67 Electronic modules
4 digital inputs, 4 digital outputs
BL67-4DI4DO-PD

Industrial Automation



- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **4 digital inputs, 24 VDC**
- **4 digital outputs, 24 VDC, 0.5 A max.**
- **pnp**
- **Channel diagnostics**
- **Selection of filter times**
- **Input inverting possible**

Type	BL67-4DI4DO-PD
Ident-No.	6827203
Number of channels	8
Nominal voltage V_O	24 VDC
Nominal current from supply terminal	100 mA
Nominal current from module bus	30 mA
Power loss, typical	1.5 W
Input type	pnp
Type of input diagnostics	channel diagnostics
Signal voltage low level	< 4.5 V
Signal voltage high level	7...30 V
Signal current low level	< 1.5 mA
Signal current high level	2.1...3.7 mA
Input filter	0.25; 2.5 ms
Potential isolation	electronics to the field level
Output type	pnp
Output current per channel	0.5 A
Ohmic switching frequency	< 200 Hz
Inductive switching frequency	< 2 Hz
Lamp load switching frequency	< 20 Hz
Load factor	1
Potential isolation	electronics to the field level
Number of diagnostics bits	8
No. of parameter bytes	4
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67

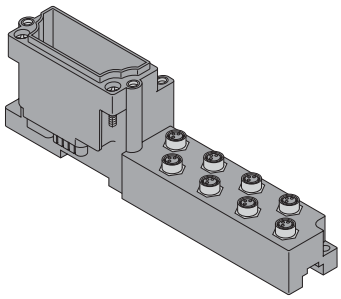
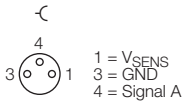
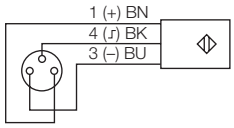
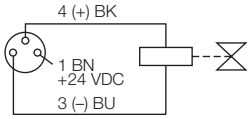
General technical data see page 21

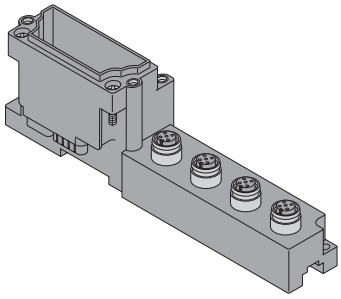
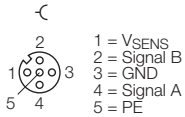
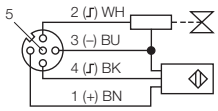
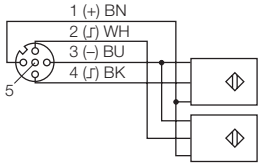
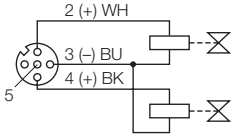
Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

Industrial Automation

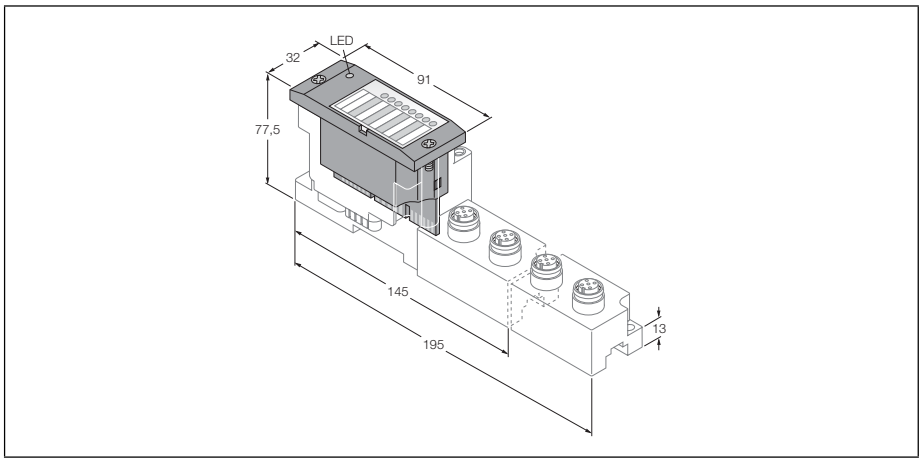
Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-8M8** Ident-No. 6827188 8 x M8, 3-pole, female Comments Matching connection cable (for example): SKP3-2-SSP3/S90 Ident-No. 8008685	Pin configuration  Wiring diagram  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-4M12** Ident-No. 6827187 4 x M12, 5-pole, female **BL67-B-4M12-P** Ident-No. 6827195 4 x M12, 5-pole, female, paired Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram  Wiring diagram  Wiring diagram 

3

BL67 Electronic modules
8 configurable channels
BL67-8XSG-PD



- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **8 configurable digital channels**
- **24 VDC, pnp**
- **0.5 A max.**
- **Channel diagnostics**
- **Selection of filter times**
- **Input inverting possible**

Type	BL67-8XSG-PD
Ident-No.	6827208
Number of channels	8
Nominal voltage V_O	24 VDC
Nominal current from supply terminal	100 mA
Nominal current from module bus	30 mA
Power loss, typical	1.5 W
Input type	pnp
Type of input diagnostics	channel diagnostics
Signal voltage low level	< 4.5 V
Signal voltage high level	7...30 V
Signal current low level	< 1.5 mA
Signal current high level	2.1...3.7 mA
Input filter	0.25; 2.5 ms
Potential isolation	electronics to the field level
Output type	pnp
Output current per channel	0.5 A
Ohmic switching frequency	< 200 Hz
Inductive switching frequency	< 2 Hz
Lamp load switching frequency	< 20 Hz
Load factor	1
Potential isolation	electronics to the field level
Number of diagnostics bits	12
No. of parameter bytes	8
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67

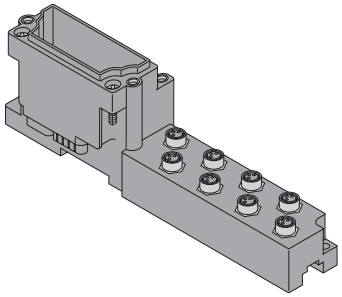
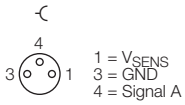
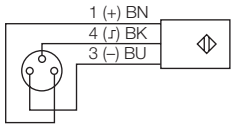
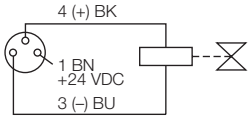
General technical data see page 21

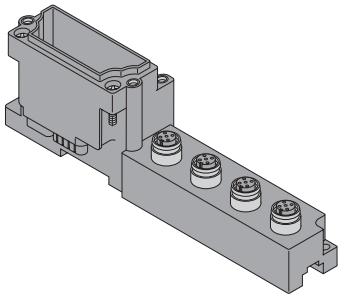
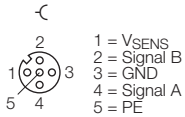
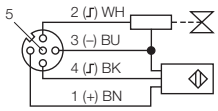
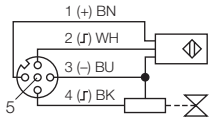
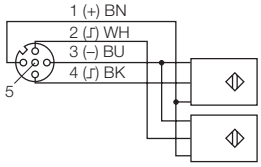
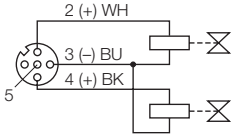
Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

Industrial Automation

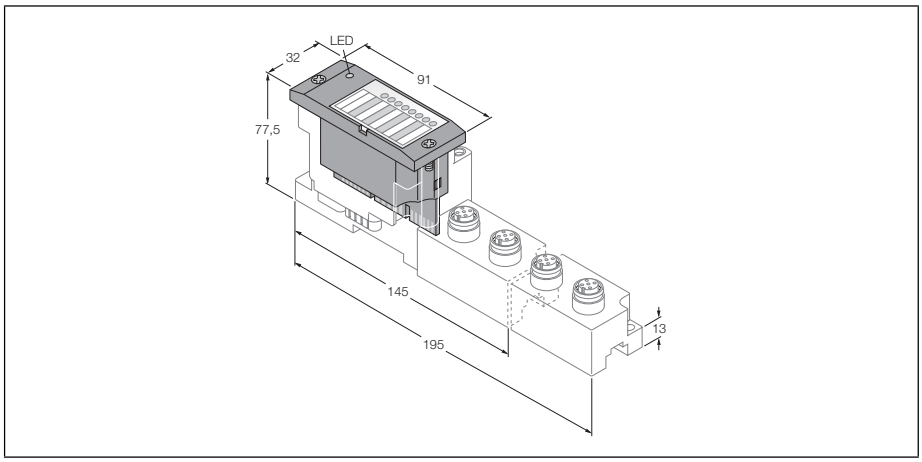
Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-8M8** Ident-No. 6827188 8 x M8, 3-pole, female Comments Matching connection cable (for example): SKP3-2-SSP3/S90 Ident-No. 8008685	Pin configuration  Wiring diagram  Wiring diagram 

Dimension drawing	Type	Connection
	**BL67-B-4M12** Ident-No. 6827187 4 x M12, 5-pole, female **BL67-B-4M12-P** Ident-No. 6827195 4 x M12, 5-pole, female, paired Comments Matching connection cable (for example): WAK4-2-WAS4/S90 Ident-No. 8006739	Pin configuration  Wiring diagram  Wiring diagram  Wiring diagram  Wiring diagram 

3

BL67 Electronic modules
2 analogue inputs
BL67-2AI-I



Type	BL67-2AI-I
Ident-No.	6827175
Number of channels	2
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	12 mA
Nominal current from module bus	35 mA
Power loss, typical	1 W
Input type	0/4 ... 20 mA
Input resistance	< 0.125 kΩ
Cut-off frequency	< 50 Hz
Basic error at 23 °C	< 0.2 %
Repeat accuracy	0.05 %
Temperature coeffizient	< 300 ppm/°C of full scale
Resolution	16 bit
Measuring principle	sigma delta
Measuring value representation	16 bit signed integer 12 bit with diagnostic
No. of diagnostics bytes	2
No. of parameter bytes	2
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67

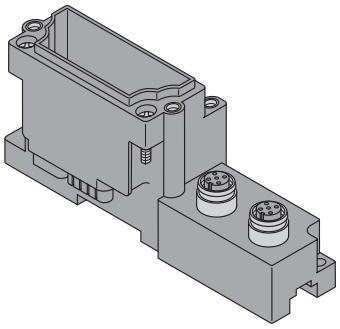
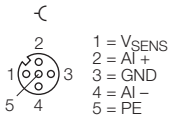
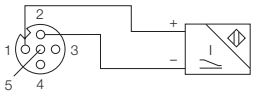
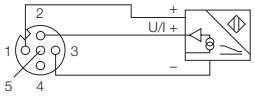
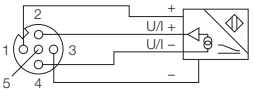
General technical data see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **2 analogue inputs 0/4...20 mA**

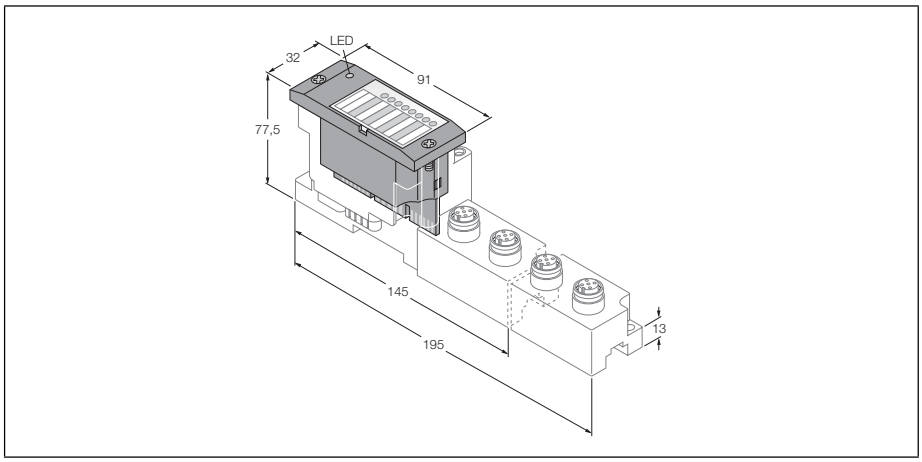
Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-2M12** Ident-No. 6827186 2 x M12, 5-pole, female, A-coded Comments Matching connection cable (for example): WAS4.5-2-WAK4.5/S57 Ident-No. 8016988	Pin configuration  2-wire connection technology  3-wire connection technology  4-wire connection technology 

BL67 Electronic modules
2 analogue inputs
BL67-2AI-V



Type	BL67-2AI-V
Ident-No.	6827176
Number of channels	2
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	12 mA
Nominal current from module bus	35 mA
Power loss, typical	1 W
Input type	-10/0 ... +10 VDC
Input resistance	< 98.5 kΩ
Cut-off frequency	< 50 Hz
Basic error at 23 °C	< 0.2 %
Repeat accuracy	0.05 %
Temperature coeffizient	< 150 ppm/°C of full scale
Resolution	16 bit
Measuring principle	sigma delta
Measuring value representation	16 bit signed integer 12 bit with diagnostic
No. of diagnostics bytes	2
No. of parameter bytes	2
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **2 analogue inputs -10/0...+10 VDC**

Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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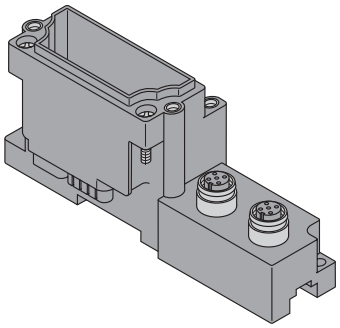
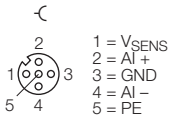
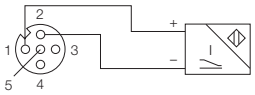
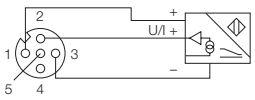
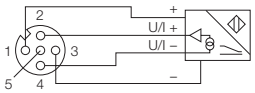
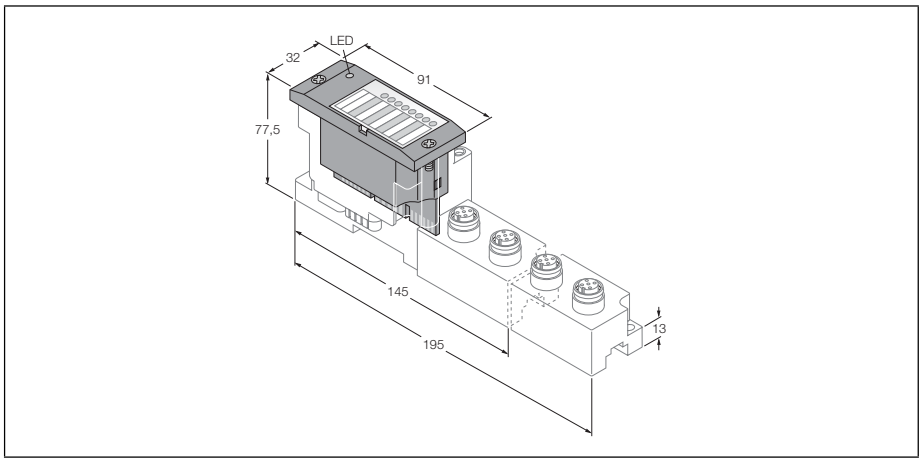
Industrial Automation

Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-2M12** Ident-No. 6827186 2 x M12, 5-pole, female, A-coded Comments Matching connection cable (for example): WAS4.5-2-WAK4.5/S57 Ident-No. 8016988	Pin configuration  2-wire connection technology  3-wire connection technology  4-wire connection technology 

3

BL67 Electronic modules
4 analogue inputs
BL67-4AI-V/I



Type	BL67-4AI-V/I
Ident-No.	6827222
Number of channels	4
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	12 mA
Nominal current from module bus	35 mA
Power loss, typical	1 W
Input type	0/4...20 mA or -10/0...+10 VDC
Input resistance	0.125 or 98.5 kΩ
Cut-off frequency	< 20 Hz
Basic error at 23 °C	< 0.3 %
Repeat accuracy	0.05 %
Temperature coeffizient	< 300 ppm/°C of full scale
Resolution	16 bit
Measuring principle	sigma delta
Measuring value representation	16 bit signed integer 12 bit with diagnostic
No. of diagnostics bytes	4
No. of parameter bytes	4
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95% (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67

General technical data see page 21

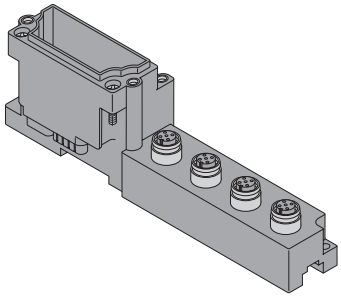
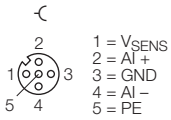
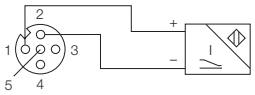
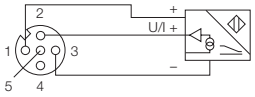
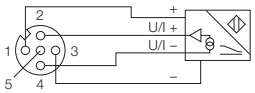
- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **4 analogue inputs 0/4...20 mA or -10/0...+10 VDC**
- **Selectable per channel**

Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

Industrial Automation

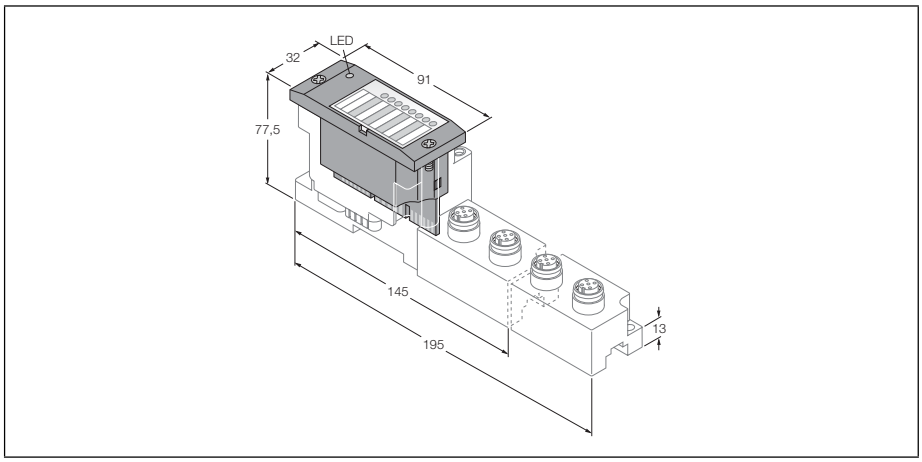
Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-4M12** Ident-No. 6827187 4 x M12, 5-pole, female, A-coded Comments Matching connection cable (for example): WAS4.5-2-WAK4.5/S57 Ident-No. 8016988	Pin configuration  2-wire connection technology  3-wire connection technology  4-wire connection technology 

3

BL67 Electronic modules
2 analogue inputs for temperature measurement
BL67-2AI-PT

Industrial Automation



- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **2 analogue inputs for Pt100, Pt200, Pt500 and Pt1000 as well as for Ni100 and Ni1000**

Type	BL67-2AI-PT
Ident-No.	6827177
Number of channels	2
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	30 mA
Nominal current from module bus	45 mA
Power loss, typical	1 W
Input type	Pt100, Pt200, Pt500, Pt1000, Ni100, Ni1000
Basic error at 23 °C	< 0.2 %
Repeat accuracy	0.05 %
Temperature coeffizient	< 300 ppm/°C of full scale
Resolution	16 bit
Measuring value representation	16 bit signed integer 12 bit with diagnostic
No. of diagnostics bytes	2
No. of parameter bytes	4
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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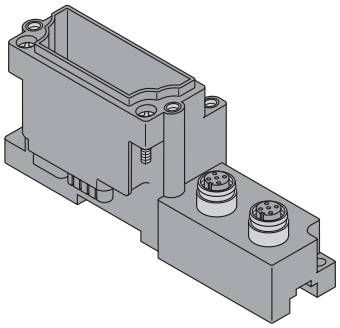
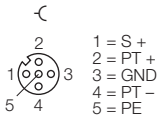
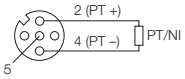
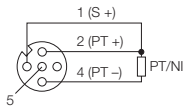
BL67 Electronic modules
2 analogue inputs for temperature measurement
BL67-2AI-PT

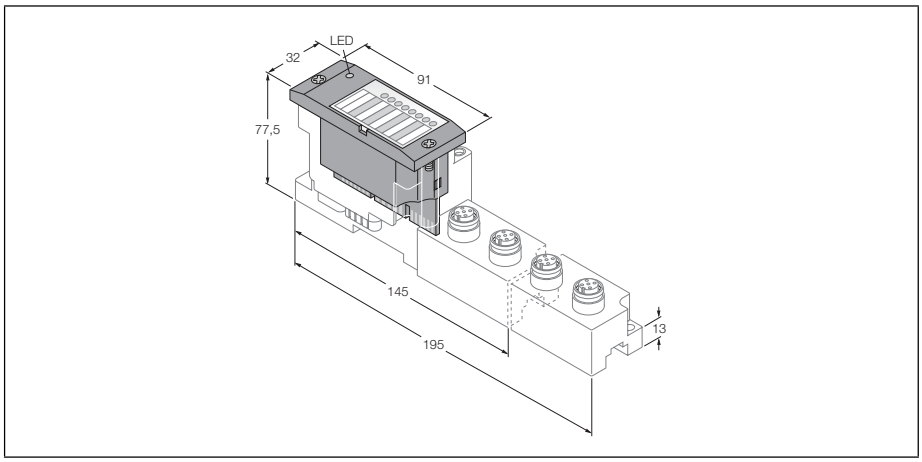
Industrial Automation

Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-2M12** Ident-No. 6827186 2 x M12, 5-pole, female, A-coded Comments Matching connection cable (for example): WAS4.5-2-WAK4.5/S57 Ident-No. 8016988	Pin configuration  2-wire connection technology  3-wire connection technology 

3

BL67 Electronic modules
2 analogue inputs for temperature measurement
BL67-2AI-TC



- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **2 analogue inputs for connection of thermoelements, types B, E, J, K, N, R, S and T**
- **Cold junction point compensation via Pt1000 probe in a special connector**

Type	BL67-2AI-TC
Ident-No.	6827178
Number of channels	2
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	30 mA
Nominal current from module bus	35 mA
Power loss, typical	1 W
Input type	types B, E, J, K, N, R, S, T
Voltage resolution	± 50 mV: < 2 µV ± 100 mV: < 4 µV ± 500 mV: < 20 µV ± 1000 mV: < 50 µV
Basic error at 23 °C	< 0.2 %
Repeat accuracy	0.05 %
Temperature coeffizient	< 300 ppm/°C of full scale
Resolution	16 bit
Measuring value representation	16 bit signed integer 12 bit with diagnostic
No. of diagnostics bytes	2
No. of parameter bytes	2
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95% (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67

General technical data see page 21

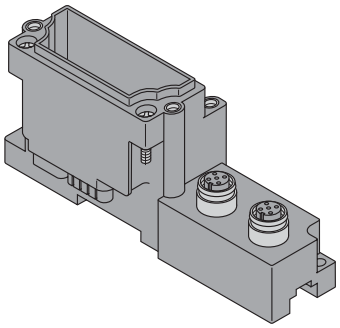
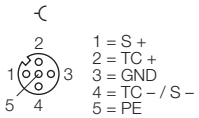
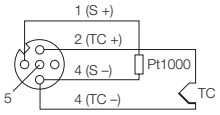
Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

BL67 Electronic modules
2 analogue inputs for temperature measurement
BL67-2AI-TC

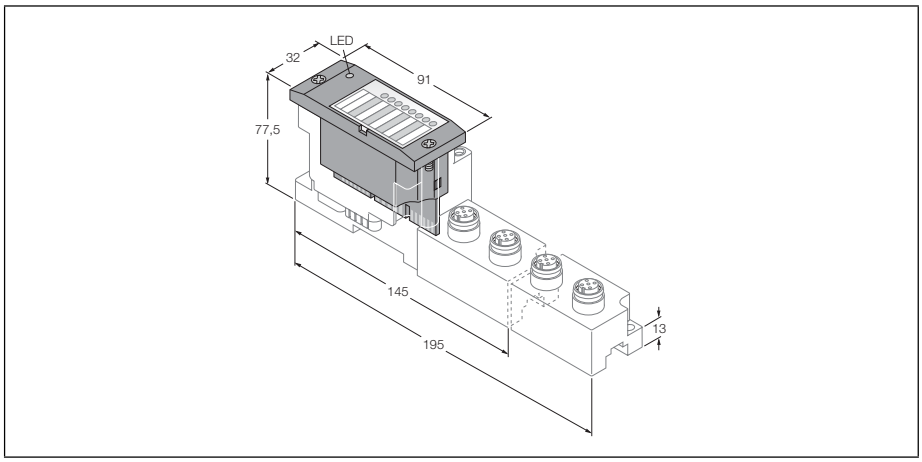
Industrial Automation

Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-2M12** Ident-No. 6827186 2 x M12, 5-pole, female, A-coded Comments matching connection with Pt1000 probe for the cold junction point compensation: BL67-WAS5-THERMO Ident-No. 6827197	Pin configuration  Wiring diagram 

3

BL67 Electronic modules
2 analogue outputs
BL67-2AO-I



Type	BL67-2AO-I
Ident-No.	6827179
Number of channels	2
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	50 mA
Nominal current from module bus	40 mA
Power loss, typical	1 W
Output type	0/4 ... 20 mA
Ohmic resistive load	< 0.45 kΩ
Inductive resistive load	< 1 mH
Transmission frequency	< 200 Hz
Basic error at 23 °C	< 0.2 %
Repeat accuracy	0.05 %
Temperature coeffizient	< 150 ppm/°C of full scale
Resolution	16 bit
Measuring value representation	16 bit signed integer 12 bit with diagnostic
No. of parameter bytes	6
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95% (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **2 analogue outputs 0/4...20 mA**

Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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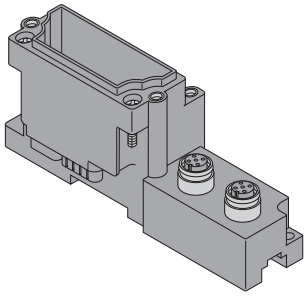
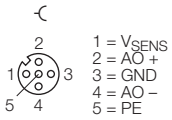
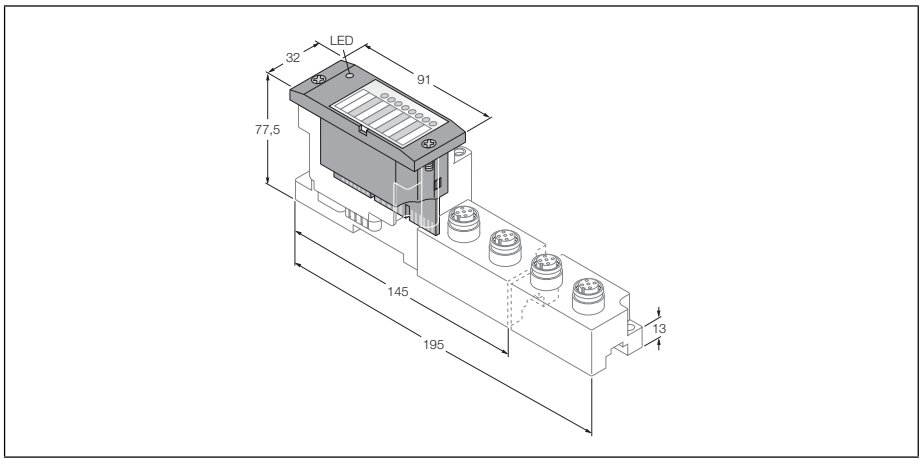
Industrial Automation

Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-2M12** Ident-No. 6827186 2 x M12, 5-pole, female, A-coded Comments Matching connection cable (for example): WAS4.5-2-WAK4.5/S57 Ident-No. 8016988	Pin configuration 

BL67 Electronic modules
2 analogue outputs
BL67-2AO-V



Type	BL67-2AO-V
Ident-No.	6827180
Number of channels	2
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	50 mA
Nominal current from module bus	60 mA
Power loss, typical	1 W
Output type	-10/0...+10 VDC
Ohmic load resistance	> 1 kΩ
Capactivie load resistance	> 1 µF
Transmission frequency	< 100 Hz
Basic error at 23 °C	< 0.2 %
Repeat accuracy	0.05 %
Temperature coeffizient	< 300 ppm/°C of full scale
Resolution	16 bit
Measuring value representation	16 bit signed integer 12 bit with diagnostic
No. of parameter bytes	6
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **2 analogue outputs -10/0...+10 VDC**

Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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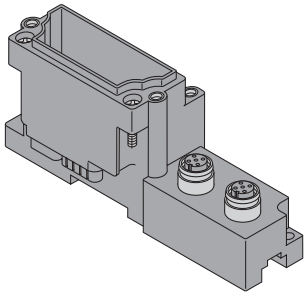
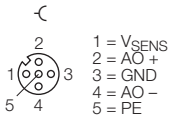
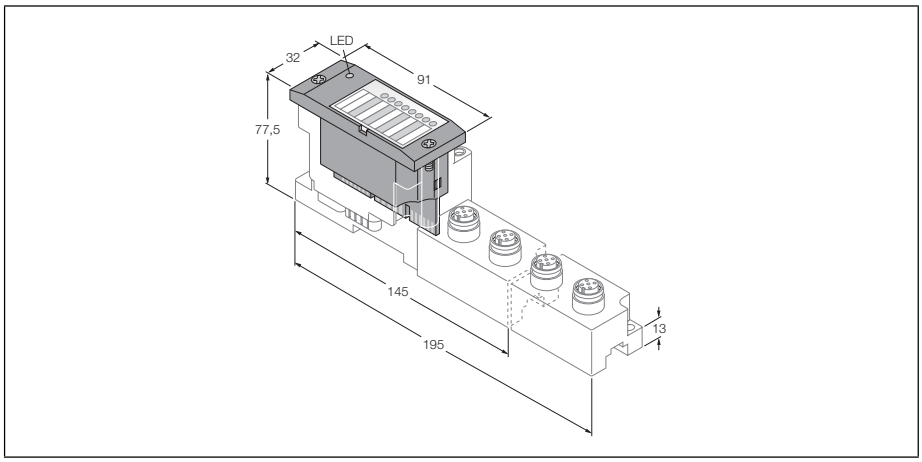
Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-2M12** Ident-No. 6827186 2 x M12, 5-pole, female, A-coded Comments Matching connection cable (for example): WAS4.5-2-WAK4.5/S57 Ident-No. 8016988	Pin configuration 

BL67 Electronic modules
RS232 interface
BL67-1RS232



Type	BL67-1RS232
Ident-No.	6827181
Number of channels	1
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	50 mA
Nominal current from module bus	140 mA
Power loss, typical	1 W
Inputs / outputs	
Transmission level active (URS1)	-15...-3 VDC
Transmission level inactive (URS0)	3...15 VDC
Common mode range (UGL)	-7...12 VDC
Transmission signals	RxD, TxD, RTS, CTS
Buffer receive / transmit	128 / 64 Byte
Type of connection	full duplex
Transmission rate	300 to 115200 bps
Parameters	transmission rate, diagnostics, data bits, stop bits, XON-character, XOFF-character, parity, flow control
Cable length	15 m
Potential isolation	Electronics to field level via opto-couplers
No. of diagnostics bytes	1
No. of parameter bytes	4
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67

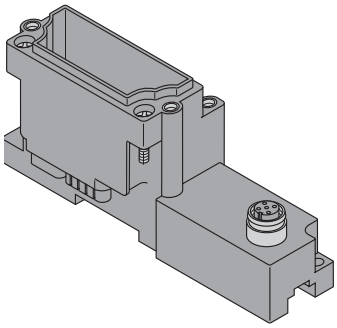
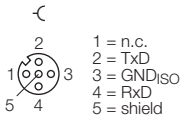
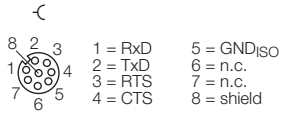
General technical data see page 21

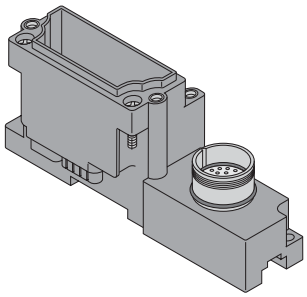
- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **Transmission of serial data via RS232 interface**
- **For connection of diverse devices, such as printers, scanners or bar code readers**

Function principle

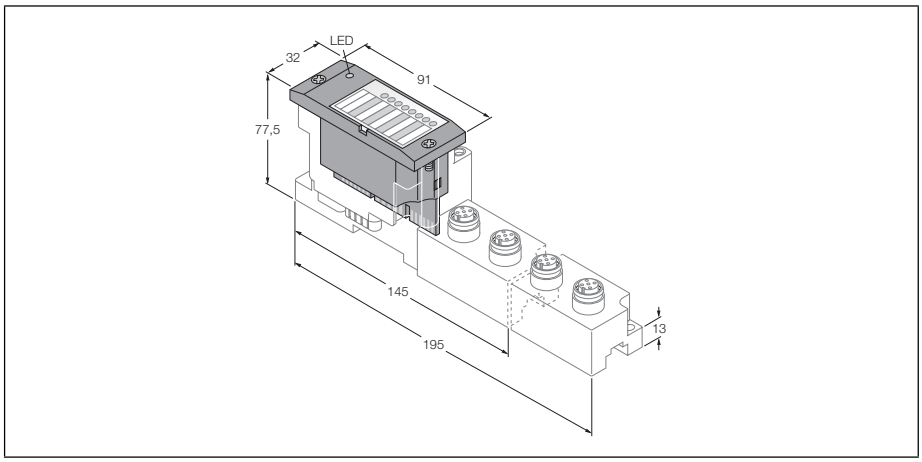
BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-1M12** Ident-No. 6827185 1 x M12, 5-pole, female **BL67-B-1M12-8** Ident-No. 6827193 1 x M12, 8-pole, female	Pin configuration  1 = n.c. 2 = TxD 3 = GND_{ISO} 4 = RxD 5 = shield Pin configuration  1 = RxD 2 = TxD 3 = RTS 4 = CTS 5 = GND_{ISO} 6 = n.c. 7 = n.c. 8 = shield

Dimension drawing	Type	Connection
	**BL67-B-1M23** Ident-No. 6827213 1 x M23, 12-pole, female	Pin configuration  1 = RxD 2 = TxD 3 = RTS 4 = CTS 5 = GND (iso) 6 = n.c. 7 = n.c. 8 = shield 9 = n.c. 10 = n.c. 11 = n.c. 12 = n.c.

BL67 Electronic modules
RS485/422 interface
BL67-1RS485/422



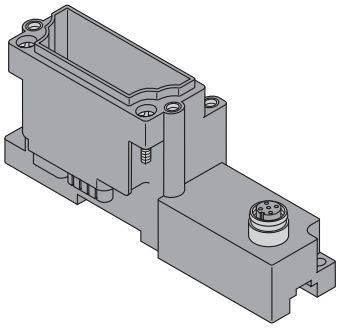
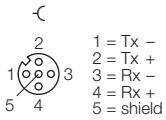
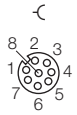
Type	BL67-1RS485/422
Ident-No.	6827192
Number of channels	1
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	50 mA
Nominal current from module bus	60 mA
Power loss, typical	1 W
Inputs / outputs	
Transmission signals	TxD, RxD
Type of connection	2-wire half duplex or 4-wire full duplex
Transmission rate	300 to 115200 bps
Parameter	RS485/422, transmission rate, diagnostics, data bits, stop bits, XON-character, XOFF-character, parity, flow control
Cable length	1000 m
Cable impedance	120 Ω
bus termination resistor	extern
Potential isolation	Electronics to field level via opto-couplers
No. of diagnostics bytes	1
No. of parameter bytes	4
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

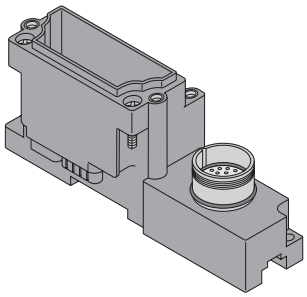
- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **Transmission of serial data via RS485/422 interface**
- **For connection of diverse devices, such as printers, scanners or bar code readers**

Function principle

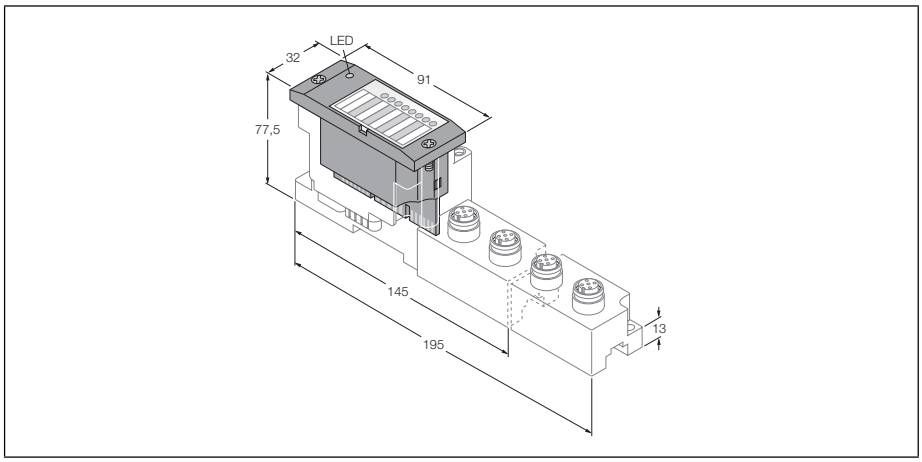
BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-1M12** Ident-No. 6827185 1 x M12, 5-pole, female **BL67-B-1M12-8** Ident-No. 6827193 1 x M12, 8-pole, female	Pin configuration  1 = Tx – 2 = Tx + 3 = Rx – 4 = Rx + 5 = shield Pin configuration  1 = Rx + 2 = Tx + 3 = Tx – 4 = n.c. 5 = Rx – 6 = GND_{ISO} 7 = n.c. 8 = shield

Dimension drawing	Type	Connection
	**BL67-B-1M23** Ident-No. 6827213 1 x M23, 12-pole, female	Pin configuration  1 = Rx + 2 = Tx + 3 = Tx – 4 = n.c. 5 = Rx – 6 = GND (iso) 7 = n.c. 8 = shield 9 = n.c. 10 = n.c. 11 = Tx – 12 = n.c.

BL67 Electronic modules
Connection of SSI sensors
BL67-1SSI



Type	BL67-1SSI
Ident-No.	6827191
Number of channels	1
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	50 mA
Nominal current from module bus	50 mA
Power loss, typical	1 W
Inputs / outputs	
Transmission signals	CL, D
Type of connection	4-wire full duplex (clock output/signal input)
Transmission rate	62,5 kbps up to 1 Mbps
Parameter	transmission rate, diagnostic, data format (binary/GRAY coded), data frame bits (1-32), number of invalid bits (LSB: 0-15, MSB 0-7)
Cable length	30 m
Potential isolation	Electronics to field level via opto-couplers
No. of diagnostics bytes	1
No. of parameter bytes	4
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **Connection of SSI sensors**
- **Maximum bit transmission rate 1 MBit/s**

Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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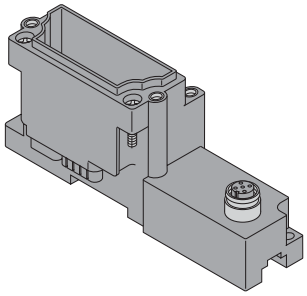
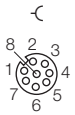
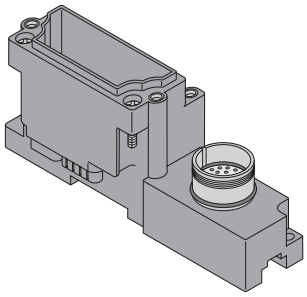
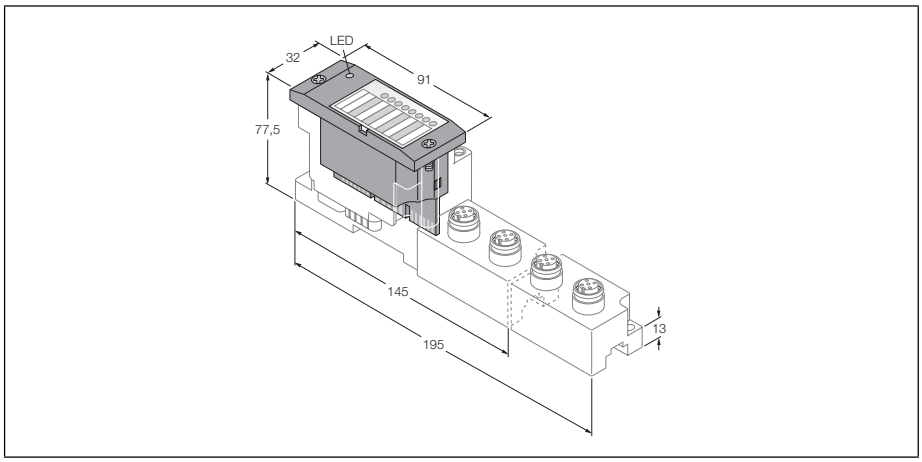
Industrial Automation

Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-1M12-8** Ident-No. 6827193 1 x M12, 8-pole, female	Pin configuration  1 = GND 2 = V_{SENS} 3 = CLK + 4 = CLK – 5 = Data + 6 = Data – 7 = n.c. 8 = shield

Dimension drawing	Type	Connection
	**BL67-B-1M23** Ident-No. 6827213 1 x M23, 12-pole, female	Pin configuration  1 = GND 2 = V_{SENS} 3 = CLK + 4 = CLK – 5 = Data + 6 = Data – 7 = n.c. 8 = shield 9 = n.c. 10 = n.c. 11 = n.c. 12 = n.c.

BL67 Electronic modules
Connection of CANopen nodes
BL67-1CVI



Type	BL67-1CVI
Ident-No.	6827223
Number of channels	1
Nominal voltage V_i	24 VDC
Nominal current from supply terminal	100 mA
Nominal current from module bus	30 mA
Power loss, typical	1 W
Inputs / outputs	
Type of connection	CANopen
Transmission rate	10 kbps up to 1 Mbps
Parameters	transmission rate, diagnostics, bus termination, range of I/O data
bus termination resistor	internal
Potential isolation	Electronics to field level via opto-couplers
No. of diagnostics bytes	6
No. of parameter bytes	16
Operating temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95 % (indoor), Level RH-2, without condensation (storage at 45 °C)
Vibration test	according to EN 61131
Shock test	according to IEC 68-2-27
Topple and fall	according to IEC 68-2-31 and free fall according to IEC 68-2-32
Electromagnetic compatibility	according to EN 61131-2
Degree of protection	IP67
General technical data	see page 21

- **Independent of the type of fieldbus and connection technology used**
- **Degree of protection IP67**
- **LEDs for display of status and diagnostics**
- **Electronics galvanically isolated from the field level via opto couplers**
- **Connection of up to 8 CANopen nodes**
- **Maximum transmission rate 1 MBit/s**

Function principle

BL67 electronic modules are plugged into the purely passive base modules which are needed for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Flexibility is enhanced because the base modules provide a choice of various connection technologies. The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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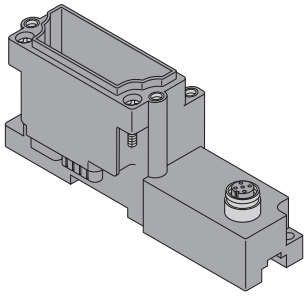
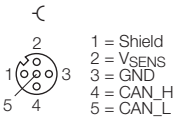
Industrial Automation

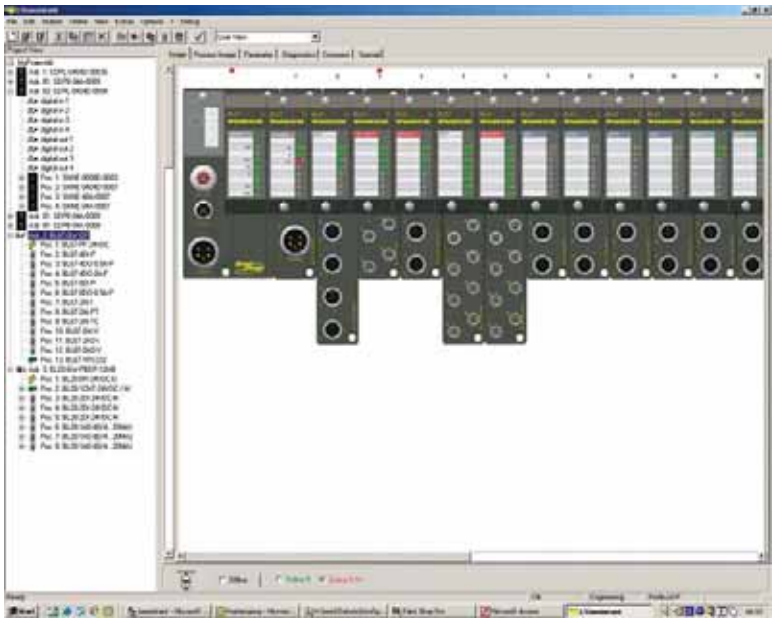
Compatible base modules

Dimension drawing	Type	Connection
	**BL67-B-1M12** Ident-No. 6827185 1 x M12, 5-pole, female	Pin configuration 

SW-I/O-ASSISTANT

Engineering software for

- Project planning
- Configuration
- Parameterisation



Description

The engineering software I/O-ASSISTANT is designed to support the user during the complete planning and set-up phase of an I/O system.

The software can be used to project, configure and parameterise a BL67 station, both in the on-line as well as the off-line mode.

This software is also a useful tool for system set-up, tests and diagnosis.

Functions

- Creation of sample projects
- Creation of projects on the monitor and extension of projects when required
- Selection of modules
- Plausibility check of the station
- Off-line configuration and parameterisation of individual stations
- Detailed project documentation
- On-line help
- On-line configuration and parameterisation of individual stations
- Generation of station-specific GSD files
- Station set-up
- Reading and setting process data
- Diagnosis and error handling
- Download of new firmware into the BL67 gateway
- Reset of a BL67 station

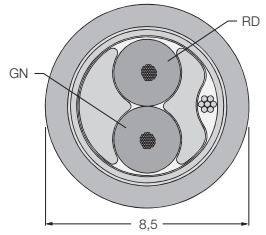
Type	Ident--no.	Description
SW-I/O-ASSISTANT	Free at http://www.turck.com	Engineering software
IO-ASSISTANT-ADAPTERKABEL-BL20/BL67	6827133	RS232 adapter cable

Item	Description	Type	Ident. no.
Labelling			
Labels	Labelling of electronic modules DIN A4 sheet, perforated (laser printer) 50 labels	BL67-LABEL/DIN-A4-50 PCS.	6827196
Documentation			
Manuals	BL67 gateway for PROFIBUS-DP, German	BL67 PROFIBUS-DP	D300570
	BL67 gateway for PROFIBUS-DP, English	BL67 PROFIBUS-DP	D300527
The manuals are available exclusively as PDF files. Download at **www.turck.com!**	BL67 gateway for DeviceNet™, English	BL67 DeviceNet™	D300528
	Fieldbus-independent I/O modules, German	BL67 I/O-Module	D300572
	Fieldbus-independent I/O modules, English	BL67 I/O-Module	D300529
	BL67 gateway for MODBUS TCP, German	BL67 MODBUS TCP	D300814
	BL67 gateway for MODBUS TCP, English	BL67 MODBUS TCP	D300815

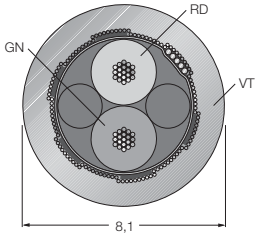
Buskabel-Qualitäten PROFIBUS-DP, CAN (DeviceNet™, CANopen), Ethernet (vorkonfektionierte Leitungen ab Seite A1 – 6)
Bus Cable Materials PROFIBUS-DP, CAN (DeviceNet™, CANopen), Ethernet (premoulded cables from page A1 – 6 onwards)

Feldbus Fieldbus	Kabeltyp Cable type	Abb. Fig.	Material Kabelmantel Material cable jacket	Halogenfrei Halogen-free	Schleppkettenfähig Suited to trailing applications	Data pair Leiterquerschnitt Connection profile [mm²]	Nennstrom Rated current [A]	DC-Widerstand DC resistance [Ω/Km]	
PROFIBUS-DP	451	(A)	TPUS	•	•	2 x 0.34	4	50	
	452	(B)	PVC	–	–	2 x 0.34	4	50	
DeviceNet™, CANopen	572	(C)	PVC	–	–	2 x 0.21	6.4	54.1	
	5711	(D)	PVC	–	–	2 x 0.52	9.6	34.1	
	5723	(D)	PUR	–	•	2 x 0.52	9.6	34.1	
Ethernet	441/S2174	(E)	PUR	–	•	4 x 0.32	4	53	
Leitungen/cables	841	(F)	PVC	–	•	8 x 0.21	1.5	94	
gem./acc. to	843	(F)	PVC	–	–	8 x 0.21	1.5	94	
ISO/IEC 11801, CAT 5									

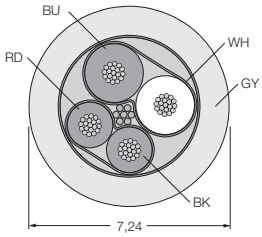
(A)



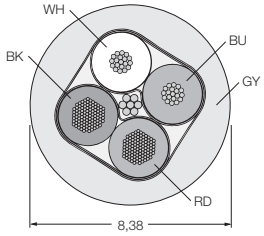
(B)



(C)



(D)



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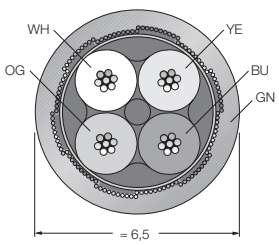
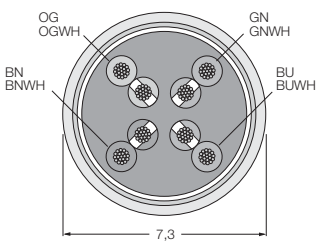
Power pair			Nennwerte	Nom. Impedanz Power pair	Nom.Kapazität Power pair	Schirmung	Zulassungen
Leiterquerschnitt Connection profile	Nennstrom Rated current	DC-Widerstand DC resistance	Ratings	nom. impedance Power pair	nom. capacitance Power pair	Shield	Approvals
[mm²]	[A]	[Ω/Km]		[Ω]	[pF/m]		
–	–	–	300 V, 80 °C	150 (3...20 MHz)	30	•	-
			300 V, 75 °C	110 (1 MHz)	30	•	UL
2 x 0.33	6.4	54.1	300 V, 75 °C	126 (1 MHz)	37.17	•	UL, CSA
2 x 1.3	15.2	13.5	300 V, 75 °C	110 (1 MHz)	40.52	•	UL, CSA
2 x 1.04	13.6	16.9	300 V, 80 °C	110 (1 MHz)	40.52	•	UL, CSA
–	–	–	300 V, 75 °C	120 (1 MHz)	52	•	UL
–	–	–	300 V, 75 °C	100 (1 MHz)	46	•	UL
–	–	–	300 V, 75 °C	100 (1 MHz)	46	•	UL

A1

(E)



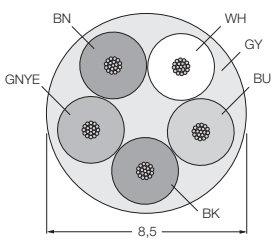
(F)



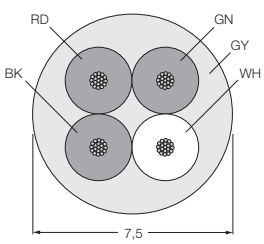
Versorgungskabel-Qualitäten PROFIBUS-DP, CAN (DeviceNet™, CANopen) (vorkonfektionierte Leitungen ab Seite A2 – 2)
Power Cable Materials PROFIBUS-DP, CAN (DeviceNet™, CANopen) (premoulded cables from page A2 – 2 onwards)

Nutzbar für Gerätefamilien (Bussystem) Usable for product family (Bus system)	Kabeltyp Cable type	Abb. Fig.	Material Kabelmantel Material cable jacket	Halogenfrei Halogen-free	Schleppkettenfähig Suited to trailing applications	Leiter-Querschnitt Connection profile [mm^2]	
BL67, FLDP, PDP, FXDP, FENP	52	(G)	PUR	•	•	5 x 1.5	
FDN...	43	(H)	PUR	•	•	4 x 1.5	
piconet®	IPS	(I)	PUR	-	•	4 x 0.34	

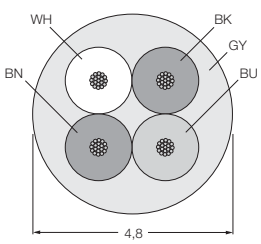
(G)



(H)



(I)



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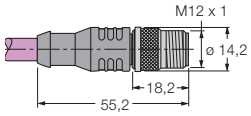
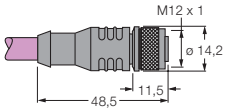
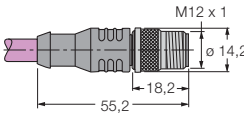
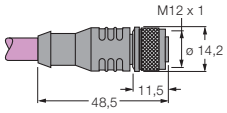
	Nennstrom Rated current [A]	DC-Widerstand DC resistance [Ω/Km]	Nennwerte Ratings	Nom. Impedanz Power pair nom. impedance Power pair [Ω]	Nom.Kapazität Power pair nom. capacitance Power pair [pF/m]	Schirmung Shield	Zulassungen Approvals
	15	13.3	240 V, 90 °C	–	–	–	–
	15	13.3	240 V, 90 °C	–	–	–	–
	4	58.7	240 V, 80 °C	–	–	–	–

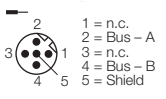
Vorkonfektionierte Buskabel für PROFIBUS-DP, Typ 451
Premoulded Bus Cables for PROFIBUS-DP, Type 451

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

Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
Kabel-Meterware Bulk cable	451	30	TPUS		
	451	150	TPUS		
	451	500	TPUS		
	451	6	TPUS	CuZn-Ni	PUR
	451	10	TPUS	CuZn-Ni	PUR
	451	15	TPUS	CuZn-Ni	PUR
	451	6	TPUS	CuZn-Ni	PUR
	451	10	TPUS	CuZn-Ni	PUR
	451	15	TPUS	CuZn-Ni	PUR
 	451	0.3	TPUS	CuZn-Ni	PUR
	451	0.5	TPUS	CuZn-Ni	PUR
	451	1	TPUS	CuZn-Ni	PUR
	451	2	TPUS	CuZn-Ni	PUR
	451	4	TPUS	CuZn-Ni	PUR
	451	6	TPUS	CuZn-Ni	PUR
	451	10	TPUS	CuZn-Ni	PUR
	451	15	TPUS	CuZn-Ni	PUR
	451	30	TPUS	CuZn-Ni	PUR

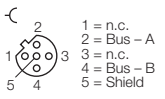
Anschlussbelegung
Pin Configuration

C071



1 = n.c.
2 = Bus – A
3 = n.c.
4 = Bus – B
5 = Shield

C072



1 = n.c.
2 = Bus – A
3 = n.c.
4 = Bus – B
5 = Shield

[1]) B = invers codiert gem. PNO-Richtlinie/reverse keyed acc. to PNO directive

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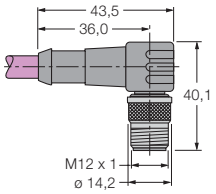
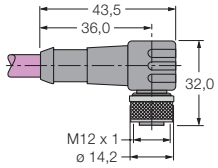
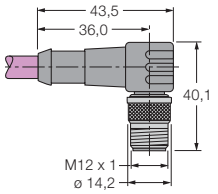
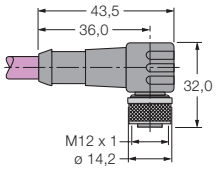
	Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
	KABEL451-30M	6915601			•	–	
	KABEL451-150M	6915603			•	–	
	KABEL451-500M	6915606			•	–	
	RSSW451-6M	6914111	C071	B[1])	•	–	IP67
	RSSW451-10M	6914112	C071	B[1])	•	–	IP67
	RSSW451-15M	6914113	C071	B[1])	•	–	IP67
	RKSW451-6M	6914114	C072	B[1])	•	–	IP67
	RKSW451-10M	6914115	C072	B[1])	•	–	IP67
	RKSW451-15M	6914116	C072	B[1])	•	–	IP67
	RSSW-RKSW451-0,3M	6915655	C071 / C072	B[1])	•	–	IP67 / IP67
	RSSW-RKSW451-0,5M	6914117	C071 / C072	B[1])	•	–	IP67 / IP67
	RSSW-RKSW451-1M	6914118	C071 / C072	B[1])	•	–	IP67 / IP67
	RSSW-RKSW451-2M	6914119	C071 / C072	B[1])	•	–	IP67 / IP67
	RSSW-RKSW451-4M	6914120	C071 / C072	B[1])	•	–	IP67 / IP67
	RSSW-RKSW451-6M	6914121	C071 / C072	B[1])	•	–	IP67 / IP67
	RSSW-RKSW451-10M	6914122	C071 / C072	B[1])	•	–	IP67 / IP67
	RSSW-RKSW451-15M	6914123	C071 / C072	B[1])	•	–	IP67 / IP67
	RSSW-RKSW451-30M	6914124	C071 / C072	B[1])	•	–	IP67 / IP67

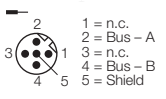
Vorkonfektionierte Buskabel für PROFIBUS-DP, Typ 451
Premoulded Bus Cables for PROFIBUS-DP, Type 451

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

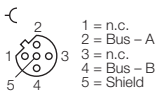
Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
	451	6	TPUS	CuZn-Ni	PUR
	451	10	TPUS	CuZn-Ni	PUR
	451	15	TPUS	CuZn-Ni	PUR
	451	6	TPUS	CuZn-Ni	PUR
	451	10	TPUS	CuZn-Ni	PUR
	451	15	TPUS	CuZn-Ni	PUR
 	451	0.3	TPUS	CuZn-Ni	PUR
	451	0.5	TPUS	CuZn-Ni	PUR
	451	1	TPUS	CuZn-Ni	PUR
	451	2	TPUS	CuZn-Ni	PUR
	451	4	TPUS	CuZn-Ni	PUR
	451	6	TPUS	CuZn-Ni	PUR
	451	10	TPUS	CuZn-Ni	PUR
	451	15	TPUS	CuZn-Ni	PUR
	451	30	TPUS	CuZn-Ni	PUR

Anschlussbelegung
Pin Configuration

C071



C072



[1]) B = invers codiert gem. PNO-Richtlinie/reverse keyed acc. to PNO directive

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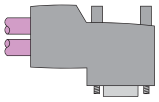
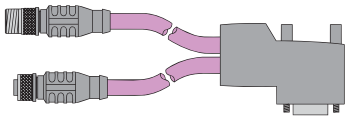
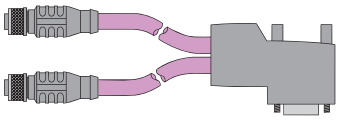
Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
WSSW451-6M	6914128	C071	B[1])	•	–	IP67
WSSW451-10M	6914129	C071	B[1])	•	–	IP67
WSSW451-15M	6914130	C071	B[1])	•	–	IP67
WKSW451-6M	6914131	C072	B[1])	•	–	IP67
WKSW451-10M	6914132	C072	B[1])	•	–	IP67
WKSW451-15M	6914133	C072	B[1])	•	–	IP67
WSSW-WKSW451-0,3M	6915680	C071 / C072	B[1])	•	–	IP67 / IP67
WSSW-WKSW451-0,5M	6914134	C071 / C072	B[1])	•	–	IP67 / IP67
WSSW-WKSW451-1M	6914135	C071 / C072	B[1])	•	–	IP67 / IP67
WSSW-WKSW451-2M	6914136	C071 / C072	B[1])	•	–	IP67 / IP67
WSSW-WKSW451-4M	6914137	C071 / C072	B[1])	•	–	IP67 / IP67
WSSW-WKSW451-6M	6914138	C071 / C072	B[1])	•	–	IP67 / IP67
WSSW-WKSW451-10M	6914139	C071 / C072	B[1])	•	–	IP67 / IP67
WSSW-WKSW451-15M	6914140	C071 / C072	B[1])	•	–	IP67 / IP67
WSSW-WKSW451-30M	6914141	C071 / C072	B[1])	•	–	IP67 / IP67

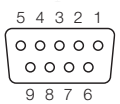
Vorkonfektionierte Buskabel für PROFIBUS-DP, Typ 451
Premoulded Bus Cables for PROFIBUS-DP, Type 451

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

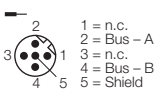
Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable lenght [m]	Werkstoffe/Materials/Materiaux Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
	451	0.5 / 0.5	TPUS		
	451	1 / 1	TPUS		
	451	2 / 2	TPUS		
	451	0.3 / 0.3	TPUS	CuZn-Ni	PUR
	451	0.5 / 0.5	TPUS	CuZn-Ni	PUR
	451	1 / 1	TPUS	CuZn-Ni	PUR
	451	2 / 2	TPUS	CuZn-Ni	PUR
	451	0.3 / 0.3	TPUS	CuZn-Ni	PUR
	451	0.5 / 0.5	TPUS	CuZn-Ni	PUR
	451	1 / 1	TPUS	CuZn-Ni	PUR
	451	2 / 2	TPUS	CuZn-Ni	PUR

Anschlussbelegung
Pin Configuration

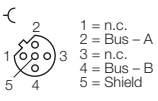
C064



C071



C072



[1]) B = invers codiert gem. PNO-Richtlinie/reverse keyed acc. to PNO directive

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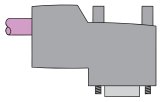
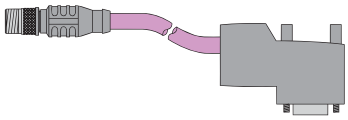
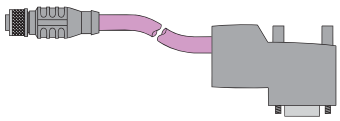
Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder Codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
D9-451-0,5M-0,5M	6915747	C064		•	–	IP20
D9-451-1M-1M	6915748	C064		•	–	IP20
D9-451-2M-2M	6915749	C064		•	–	IP20
RSSW-D9-RKSW-451-0,3M-0,3M	6914125	C064 / C071 / C072	B[1])	•	–	IP20 / IP67
RSSW-D9-RKSW-451-0,5M-0,5M	6915741	C064 / C071 / C072	B[1])	•	–	IP20 / IP67
RSSW-D9-RKSW-451-1M-1M	6914126	C064 / C071 / C072	B[1])	•	–	IP20 / IP67
RSSW-D9-RKSW-451-2M-2M	6914127	C064 / C071 / C072	B[1])	•	–	IP20 / IP67
RKSW-D9-RKSW-451-0,3M-0,3M	6604659	C064 / C072 / C072	B[1])	•	–	IP20 / IP67
RKSW-D9-RKSW-451-0,5M-0,5M	6915792	C064 / C072 / C072	B[1])	•	–	IP20 / IP67
RKSW-D9-RKSW-451-1M-1M	6604661	C064 / C072 / C072	B[1])	•	–	IP20 / IP67
RKSW-D9-RKSW-451-2M-2M	6604663	C064 / C072 / C072	B[1])	•	–	IP20 / IP67

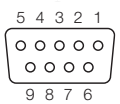
Vorkonfektionierte Buskabel für PROFIBUS-DP, Typ 451
Premoulded Bus Cables for PROFIBUS-DP, Type 451

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

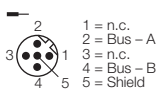
Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable lenght [m]	Werkstoffe/Materials/Materiaux Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
	451	0.5	TPUS		
	451	1	TPUS		
	451	2	TPUS		
	451	0.3	TPUS	CuZn-Ni	PUR
	451	0.5	TPUS	CuZn-Ni	PUR
	451	1	TPUS	CuZn-Ni	PUR
	451	2	TPUS	CuZn-Ni	PUR
	451	0.3	TPUS	CuZn-Ni	PUR
	451	0.5	TPUS	CuZn-Ni	PUR
	451	1	TPUS	CuZn-Ni	PUR
	451	2	TPUS	CuZn-Ni	PUR

Anschlussbelegung
Pin Configuration

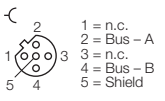
C064



C071



C072



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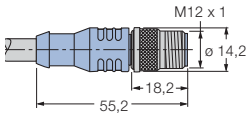
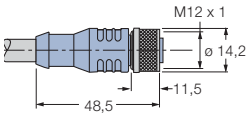
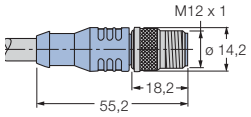
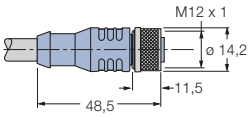
Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder Codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
D9T451-0,5M	6915757	C064		•	–	IP20
D9T451-1M	6915758	C064		•	–	IP20
D9T451-2M	6915759	C064		•	–	IP20
RSSW-D9T451-0,3M	6915775	C064 / C071	B[1])	•	–	IP20 / IP67
RSSW-D9T451-0,5M	6915777	C064 / C071	B[1])	•	–	IP20 / IP67
RSSW-D9T451-1M	6915778	C064 / C071	B[1])	•	–	IP20 / IP67
RSSW-D9T451-2M	6915779	C064 / C071	B[1])	•	–	IP20 / IP67
RKSW-D9T451-0,3M	6915765	C064 / C072	B[1])	•	–	IP20 / IP67
RKSW-D9T451-0,5M	6915767	C064 / C072	B[1])	•	–	IP20 / IP67
RKSW-D9T451-1M	6915768	C064 / C072	B[1])	•	–	IP20 / IP67
RKSW-D9T451-2M	6915769	C064 / C072	B[1])	•	–	IP20 / IP67

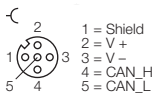
Vorkonfektionierte Buskabel für DeviceNet™, Typ 572
Premoulded Bus Cables for DeviceNet™, Type 572

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

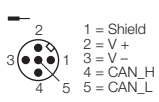
Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
Kabel-Meterware Bulk cable	572	30	PVC		
	572	150	PVC		
	572	500	PVC		
	572	6	PVC	CuZn-Ni	PUR
	572	10	PVC	CuZn-Ni	PUR
	572	15	PVC	CuZn-Ni	PUR
	572	6	PVC	CuZn-Ni	PUR
	572	10	PVC	CuZn-Ni	PUR
	572	15	PVC	CuZn-Ni	PUR
 	572	0.3	PVC	CuZn-Ni	PUR
	572	0.5	PVC	CuZn-Ni	PUR
	572	1	PVC	CuZn-Ni	PUR
	572	2	PVC	CuZn-Ni	PUR
	572	4	PVC	CuZn-Ni	PUR
	572	6	PVC	CuZn-Ni	PUR
	572	10	PVC	CuZn-Ni	PUR
	572	15	PVC	CuZn-Ni	PUR
	572	30	PVC	CuZn-Ni	PUR

Anschlussbelegung
Pin Configuration

C069



C070

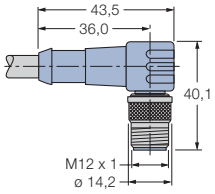
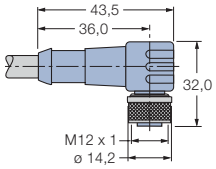
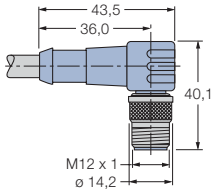
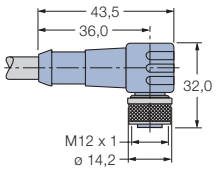


Hans Turck GmbH & Co.KG • Witzlebenstraße 7 • D-45472 Mülheim an der Ruhr • Tel. +49 208 4952-0 • Fax +49 208 4952-264 • www.turck.com

Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
KABEL572-30M	6958118			–	UL, CSA	
KABEL572-150M	6958120			–	UL, CSA	
KABEL572-500M	6604900			–	UL, CSA	
RSC572-6M	6602447	C070	A	–	UL, CSA	IP67
RSC572-10M	6602640	C070	A	–	UL, CSA	IP67
RSC572-15M	6603623	C070	A	–	UL, CSA	IP67
RKC572-6M	6603624	C069	A	–	UL, CSA	IP67
RKC572-10M	6602428	C069	A	–	UL, CSA	IP67
RKC572-15M	6604933	C069	A	–	UL, CSA	IP67
RSC-RKC572-0,3M	6602473	C070 / C069	A	–	UL, CSA	IP67 / IP67
RSC-RKC572-0,5M	6602332	C070 / C069	A	–	UL, CSA	IP67 / IP67
RSC-RKC572-1M	6603628	C070 / C069	A	–	UL, CSA	IP67 / IP67
RSC-RKC572-2M	6603629	C070 / C069	A	–	UL, CSA	IP67 / IP67
RSC-RKC572-4M	6603630	C070 / C069	A	–	UL, CSA	IP67 / IP67
RSC-RKC572-6M	6603631	C070 / C069	A	–	UL, CSA	IP67 / IP67
RSC-RKC572-10M	6603632	C070 / C069	A	–	UL, CSA	IP67 / IP67
RSC-RKC572-15M	6603633	C070 / C069	A	–	UL, CSA	IP67 / IP67
RSC-RKC572-30M	6603395	C070 / C069	A	–	UL, CSA	IP67 / IP67

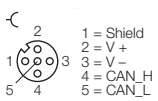
Vorkonfektionierte Buskabel für DeviceNet™, Typ 572
Premoulded Bus Cables for DeviceNet™, Type 572

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

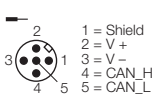
Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
	572	6	PVC	CuZn-Ni	PUR
	572	10	PVC	CuZn-Ni	PUR
	572	15	PVC	CuZn-Ni	PUR
	572	6	PVC	CuZn-Ni	PUR
	572	10	PVC	CuZn-Ni	PUR
	572	15	PVC	CuZn-Ni	PUR
 	572	0.3	PVC	CuZn-Ni	PUR
	572	0.5	PVC	CuZn-Ni	PUR
	572	1	PVC	CuZn-Ni	PUR
	572	2	PVC	CuZn-Ni	PUR
	572	4	PVC	CuZn-Ni	PUR
	572	6	PVC	CuZn-Ni	PUR
	572	10	PVC	CuZn-Ni	PUR
	572	15	PVC	CuZn-Ni	PUR
	572	30	PVC	CuZn-Ni	PUR

Anschlussbelegung
Pin Configuration

C069



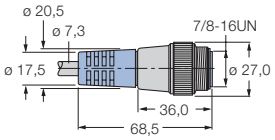
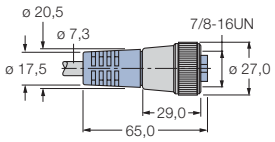
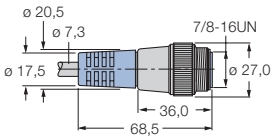
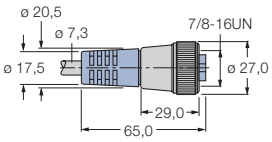
C070



Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
WSC572-6M	6603635	C070	A	–	UL, CSA	IP67
WSC572-10M	6603636	C070	A	–	UL, CSA	IP67
WSC572-15M	6603637	C070	A	–	UL, CSA	IP67
WKC572-6M	6603638	C069	A	–	UL, CSA	IP67
WKC572-10M	6602637	C069	A	–	UL, CSA	IP67
WKC572-15M	6603640	C069	A	–	UL, CSA	IP67
WSC-WKC572-0,3M	6603608	C070 / C069	A	–	UL, CSA	IP67 / IP67
WSC-WKC572-0,5M	6602024	C070 / C069	A	–	UL, CSA	IP67 / IP67
WSC-WKC572-1M	6602027	C070 / C069	A	–	UL, CSA	IP67 / IP67
WSC-WKC572-2M	6602030	C070 / C069	A	–	UL, CSA	IP67 / IP67
WSC-WKC572-4M	6602542	C070 / C069	A	–	UL, CSA	IP67 / IP67
WSC-WKC572-6M	6603645	C070 / C069	A	–	UL, CSA	IP67 / IP67
WSC-WKC572-10M	6602638	C070 / C069	A	–	UL, CSA	IP67 / IP67
WSC-WKC572-15M	6602684	C070 / C069	A	–	UL, CSA	IP67 / IP67
WSC-WKC572-30M	6603648	C070 / C069	A	–	UL, CSA	IP67 / IP67

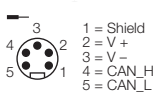
Vorkonfektionierte Buskabel für DeviceNet™, Typ 5711
Premoulded Bus Cables for DeviceNet™, Type 5711

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

Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
Kabel-Meterware Bulk cable	5711	30	PVC		
	5711	150	PVC		
	5711	500	PVC		
	5711	6	PVC	CuZn-Ni	PUR
	5711	10	PVC	CuZn-Ni	PUR
	5711	15	PVC	CuZn-Ni	PUR
	5711	6	PVC	CuZn-Ni	PUR
	5711	10	PVC	CuZn-Ni	PUR
	5711	15	PVC	CuZn-Ni	PUR
 	5711	0.3	PVC	CuZn-Ni	PUR
	5711	0.5	PVC	CuZn-Ni	PUR
	5711	1	PVC	CuZn-Ni	PUR
	5711	2	PVC	CuZn-Ni	PUR
	5711	4	PVC	CuZn-Ni	PUR
	5711	6	PVC	CuZn-Ni	PUR
	5711	10	PVC	CuZn-Ni	PUR
	5711	15	PVC	CuZn-Ni	PUR
	5711	30	PVC	CuZn-Ni	PUR

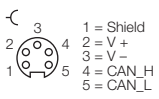
Anschlussbelegung
Pin Configuration

C054



1 = Shield
2 = V +
3 = V –
4 = CAN_H
5 = CAN_L

C055

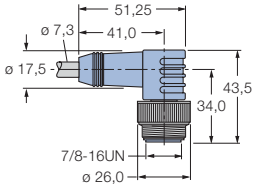
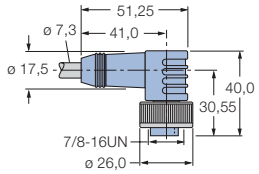
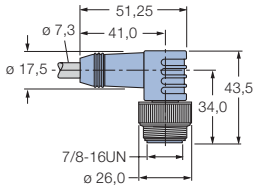
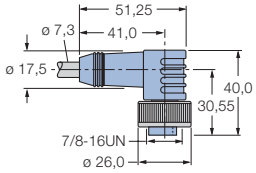


1 = Shield
2 = V +
3 = V –
4 = CAN_H
5 = CAN_L

Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
KABEL5711-30M	6602453			–	UL, CSA	
KABEL5711-150M	6602455			–	UL, CSA	
KABEL5711-500M	6604922			–	UL, CSA	
RSM5711-6M	6603649	C054		–	UL, CSA	IP67
RSM5711-10M	6603650	C054		–	UL, CSA	IP67
RSM5711-15M	6603651	C054		–	UL, CSA	IP67
RKM5711-6M	6603652	C055		–	UL, CSA	IP67
RKM5711-10M	6603653	C055		–	UL, CSA	IP67
RKM5711-15M	6602395	C055		–	UL, CSA	IP67
RSM-RKM5711-0,3M	6602611	C054 / C055		–	UL, CSA	IP67 / IP67
RSM-RKM5711-0,5M	6602050	C054 / C055		–	UL, CSA	IP67 / IP67
RSM-RKM5711-1M	6602356	C054 / C055		–	UL, CSA	IP67 / IP67
RSM-RKM5711-2M	6602045	C054 / C055		–	UL, CSA	IP67 / IP67
RSM-RKM5711-4M	6602051	C054 / C055		–	UL, CSA	IP67 / IP67
RSM-RKM5711-6M	6602052	C054 / C055		–	UL, CSA	IP67 / IP67
RSM-RKM5711-10M	6602023	C054 / C055		–	UL, CSA	IP67 / IP67
RSM-RKM5711-15M	6602504	C054 / C055		–	UL, CSA	IP67 / IP67
RSM-RKM5711-30M	6603662	C054 / C055		–	UL, CSA	IP67 / IP67

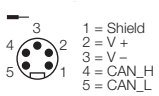
Vorkonfektionierte Buskabel für DeviceNet™, Typ 5711
Premoulded Bus Cables for DeviceNet™, Type 5711

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

Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
	5711	6	PVC	CuZn-Ni	PUR
	5711	10	PVC	CuZn-Ni	PUR
	5711	15	PVC	CuZn-Ni	PUR
	5711	6	PVC	CuZn-Ni	PUR
	5711	10	PVC	CuZn-Ni	PUR
	5711	15	PVC	CuZn-Ni	PUR
 	5711	0.3	PVC	CuZn-Ni	PUR
	5711	0.5	PVC	CuZn-Ni	PUR
	5711	1	PVC	CuZn-Ni	PUR
	5711	2	PVC	CuZn-Ni	PUR
	5711	4	PVC	CuZn-Ni	PUR
	5711	6	PVC	CuZn-Ni	PUR
	5711	10	PVC	CuZn-Ni	PUR
	5711	15	PVC	CuZn-Ni	PUR
	5711	30	PVC	CuZn-Ni	PUR

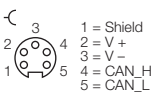
Anschlussbelegung
Pin Configuration

C054



1 = Shield
2 = V +
3 = V –
4 = CAN_H
5 = CAN_L

C055

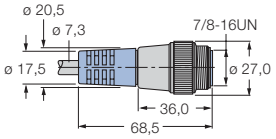
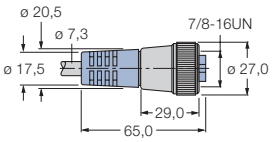
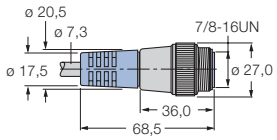
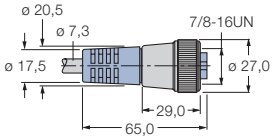


1 = Shield
2 = V +
3 = V –
4 = CAN_H
5 = CAN_L

Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
WSM5711-6M	6606039	C054		–	UL, CSA	IP67
WSM5711-10M	6602718	C054		–	UL, CSA	IP67
WSM5711-15M	6603225	C054		–	UL, CSA	IP67
WKM5711-6M	6605296	C055		–	UL, CSA	IP67
WKM5711-10M	6605298	C055		–	UL, CSA	IP67
WKM5711-15M	6605299	C055		–	UL, CSA	IP67
WSM-WKM5711-0,3M	6605652	C054 / C055		–	UL, CSA	IP67 / IP67
WSM-WKM5711-0,5M	6602014	C054 / C055		–	UL, CSA	IP67 / IP67
WSM-WKM5711-1M	6602016	C054 / C055		–	UL, CSA	IP67 / IP67
WSM-WKM5711-2M	6602018	C054 / C055		–	UL, CSA	IP67 / IP67
WSM-WKM5711-4M	6605654	C054 / C055		–	UL, CSA	IP67 / IP67
WSM-WKM5711-6M	6602401	C054 / C055		–	UL, CSA	IP67 / IP67
WSM-WKM5711-10M	6602022	C054 / C055		–	UL, CSA	IP67 / IP67
WSM-WKM5711-15M	6603447	C054 / C055		–	UL, CSA	IP67 / IP67
WSM-WKM5711-30M	6605657	C054 / C055		–	UL, CSA	IP67 / IP67

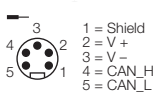
Vorkonfektionierte Buskabel für DeviceNet™, Typ 5723
Premoulded Bus Cables for DeviceNet™, Type 5723

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

Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
Kabel-Meterware Bulk cable	5723	30	PUR		
	5723	150	PUR		
	5723	500	PUR		
	5723	6	PUR	CuZn-Ni	PUR
	5723	10	PUR	CuZn-Ni	PUR
	5723	15	PUR	CuZn-Ni	PUR
	5723	6	PUR	CuZn-Ni	PUR
	5723	10	PUR	CuZn-Ni	PUR
	5723	15	PUR	CuZn-Ni	PUR
 	5723	0.3	PUR	CuZn-Ni	PUR
	5723	0.5	PUR	CuZn-Ni	PUR
	5723	1	PUR	CuZn-Ni	PUR
	5723	2	PUR	CuZn-Ni	PUR
	5723	4	PUR	CuZn-Ni	PUR
	5723	6	PUR	CuZn-Ni	PUR
	5723	10	PUR	CuZn-Ni	PUR
	5723	15	PUR	CuZn-Ni	PUR
	5723	30	PUR	CuZn-Ni	PUR

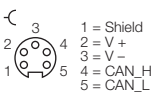
Anschlussbelegung
Pin Configuration

C054



1 = Shield
2 = V +
3 = V –
4 = CAN_H
5 = CAN_L

C055

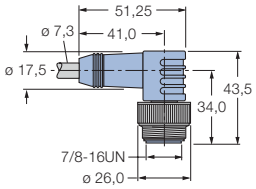
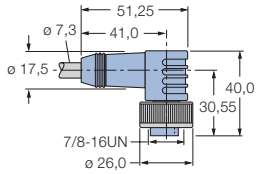
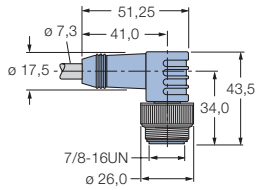
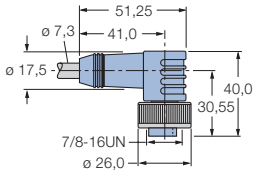


1 = Shield
2 = V +
3 = V –
4 = CAN_H
5 = CAN_L

Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
KABEL5723-30M	6604923			•	UL, CSA	
KABEL5723-150M	6604925			•	UL, CSA	
KABEL5723-500M	6604928			•	UL, CSA	
RSM5723-6M	6605933	C054		•	UL, CSA	IP67
RSM5723-10M	6605935	C054		•	UL, CSA	IP67
RSM5723-15M	6605936	C054		•	UL, CSA	IP67
RKM5723-6M	6605189	C055		•	UL, CSA	IP67
RKM5723-10M	6605191	C055		•	UL, CSA	IP67
RKM5723-15M	6605192	C055		•	UL, CSA	IP67
RSM-RKM5723-0,3M	6605544	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-0,5M	6605545	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-1M	6605546	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-2M	6605548	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-4M	6605551	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-6M	6605553	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-10M	6605555	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-15M	6605556	C054 / C055		•	UL, CSA	IP67 / IP67
RSM-RKM5723-30M	6605559	C054 / C055		•	UL, CSA	IP67 / IP67

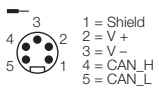
Vorkonfektionierte Buskabel für DeviceNet™, Typ 5723
Premoulded Bus Cables for DeviceNet™, Type 5723

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

Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
	5723	6	PUR	CuZn-Ni	PUR
	5723	10	PUR	CuZn-Ni	PUR
	5723	15	PUR	CuZn-Ni	PUR
	5723	6	PUR	CuZn-Ni	PUR
	5723	10	PUR	CuZn-Ni	PUR
	5723	15	PUR	CuZn-Ni	PUR
 	5723	0.3	PUR	CuZn-Ni	PUR
	5723	0.5	PUR	CuZn-Ni	PUR
	5723	1	PUR	CuZn-Ni	PUR
	5723	2	PUR	CuZn-Ni	PUR
	5723	4	PUR	CuZn-Ni	PUR
	5723	6	PUR	CuZn-Ni	PUR
	5723	10	PUR	CuZn-Ni	PUR
	5723	15	PUR	CuZn-Ni	PUR
	5723	30	PUR	CuZn-Ni	PUR

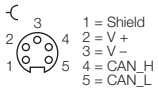
Anschlussbelegung
Pin Configuration

C054



1 = Shield
2 = V +
3 = V –
4 = CAN_H
5 = CAN_L

C055

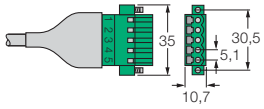
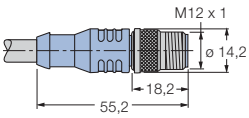
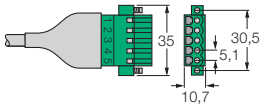
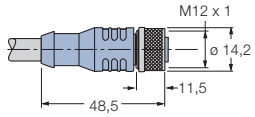
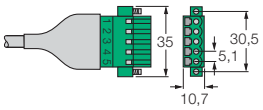
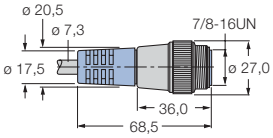
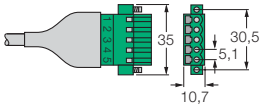
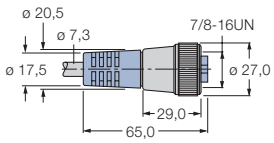
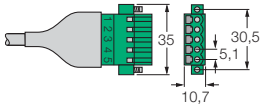


1 = Shield
2 = V +
3 = V –
4 = CAN_H
5 = CAN_L

Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
WSM5723-6M	6606055	C054		•	UL, CSA	IP67
WSM5723-10M	6606057	C054		•	UL, CSA	IP67
WSM5723-15M	6606058	C054		•	UL, CSA	IP67
WKM5723-6M	6605314	C055		•	UL, CSA	IP67
WKM5723-10M	6605316	C055		•	UL, CSA	IP67
WKM5723-15M	6605317	C055		•	UL, CSA	IP67
WSM-WKM5723-0,3M	6605660	C054 / C055		•	UL, CSA	IP67 / IP67
WSM-WKM5723-0,5M	6605661	C054 / C055		•	UL, CSA	IP67 / IP67
WSM-WKM5723-1M	6605662	C054 / C055		•	UL, CSA	IP67 / IP67
WSM-WKM5723-2M	6605664	C054 / C055		•	UL, CSA	IP67 / IP67
WSM-WKM5723-4M	6605667	C054 / C055		•	UL, CSA	IP67 / IP67
WSM-WKM5723-6M	6605669	C054 / C055		•	UL, CSA	IP67 / IP67
WSM-WKM5723-10M	6605671	C054 / C055		•	UL, CSA	IP67 / IP67
WSM-WKM5723-15M	6605672	C054 / C055		•	UL, CSA	IP67 / IP67
WSM-WKM5723-30M	6605675	C054 / C055		•	UL, CSA	IP67 / IP67

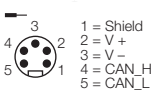
Vorkonfektionierte Buskabel für DeviceNet™, open connector (OC)
Premoulded Bus Cables for DeviceNet™, open connector (OC)

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

Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
	572	0.5	PVC		
	572	1	PVC		
	572	2	PVC		
	5711	0.5	PVC		
	5711	1	PVC		
	5711	2	PVC		
	5723	0.5	PUR		
	5723	1	PUR		
	5723	2	PUR		
 	572	0.5	PVC	CuZn-Ni	PUR
	572	1	PVC	CuZn-Ni	PUR
	572	2	PVC	CuZn-Ni	PUR
 	572	0.5	PVC	CuZn-Ni	PUR
	572	1	PVC	CuZn-Ni	PUR
	572	2	PVC	CuZn-Ni	PUR
 	5711	0.5	PVC	CuZn-Ni	PUR
	5711	1	PVC	CuZn-Ni	PUR
	5711	2	PVC	CuZn-Ni	PUR
	5723	0.5	PUR	CuZn-Ni	PUR
	5723	1	PUR	CuZn-Ni	PUR
	5723	2	PUR	CuZn-Ni	PUR
 	5711	0.5	PVC	CuZn-Ni	PUR
	5711	1	PVC	CuZn-Ni	PUR
	5711	2	PVC	CuZn-Ni	PUR
	5723	0.5	PUR	CuZn-Ni	PUR
	5723	1	PUR	CuZn-Ni	PUR
	5723	2	PUR	CuZn-Ni	PUR

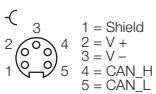
Anschlussbelegung
Pin Configuration

C054



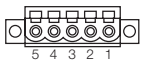
1 = Shield
2 = V +
3 = V –
4 = CAN_H
5 = CAN_L

C055



1 = Shield
2 = V +
3 = V –
4 = CAN_H
5 = CAN_L

C065



1 = V –
2 = CAN_L
3 = Shield
4 = CAN_H
5 = V +

C069

1 = Shield
2 = V +
3 = V –
4 = CAN_H
5 = CAN_L

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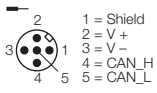
Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
CBC5-572-0,5M	6606064	C065		–	UL, CSA	IP20
CBC5-572-1M	6602545	C065		–	UL, CSA	IP20
CBC5-572-2M	6606065	C065		–	UL, CSA	IP20
CBC5-5711-0,5M	6606091	C065		–	UL, CSA	IP20
CBC5-5711-1M	6606092	C065		–	UL, CSA	IP20
CBC5-5711-2M	6606093	C065		–	UL, CSA	IP20
CBC5-5723-0,5M	6606097	C065		•	UL, CSA	IP20
CBC5-5723-1M	6606098	C065		•	UL, CSA	IP20
CBC5-5723-2M	6606099	C065		•	UL, CSA	IP20
RSC-CBC5-572-0,5M	6602737	C070 / C065	A	–	UL, CSA	IP67 / IP20
RSC-CBC5-572-1M	6606133	C070 / C065	A	–	UL, CSA	IP67 / IP20
RSC-CBC5-572-2M	6602340	C070 / C065	A	–	UL, CSA	IP67 / IP20
RKC-CBC5-572-0,5M	6606103	C069 / C065	A	–	UL, CSA	IP67 / IP20
RKC-CBC5-572-1M	6606104	C069 / C065	A	–	UL, CSA	IP67 / IP20
RKC-CBC5-572-2M	6606105	C069 / C065	A	–	UL, CSA	IP67 / IP20
RSM-CBC5-5711-0,5M	6606234	C054 / C065		–	UL, CSA	IP67 / IP20
RSM-CBC5-5711-1M	6606235	C054 / C065		–	UL, CSA	IP67 / IP20
RSM-CBC5-5711-2M	6606236	C054 / C065		–	UL, CSA	IP67 / IP20
RSM-CBC5-5723-0,5M	6606240	C054 / C065		•	UL, CSA	IP67 / IP20
RSM-CBC5-5723-1M	6606241	C054 / C065		•	UL, CSA	IP67 / IP20
RSM-CBC5-5723-2M	6606242	C054 / C065		•	UL, CSA	IP67 / IP20
RKM-CBC5-5711-0,5M	6606195	C055 / C065		–	UL, CSA	IP67 / IP20
RKM-CBC5-5711-1M	6606196	C055 / C065		–	UL, CSA	IP67 / IP20
RKM-CBC5-5711-2M	6606197	C055 / C065		–	UL, CSA	IP67 / IP20
RKM-CBC5-5723-0,5M	6606201	C055 / C065		•	UL, CSA	IP67 / IP20
RKM-CBC5-5723-1M	6606202	C055 / C065		•	UL, CSA	IP67 / IP20
RKM-CBC5-5723-2M	6606203	C055 / C065		•	UL, CSA	IP67 / IP20

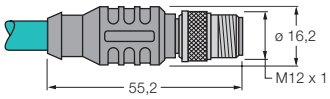
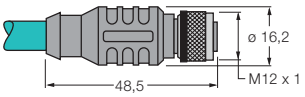
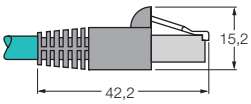
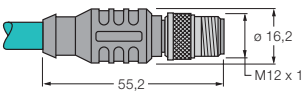
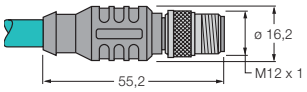
A1

Anschlussbelegung
Pin Configuration

C070

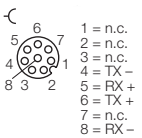


Vorkonfektionierte Buskabel für Ethernet, Typ 841, 843
Premoulded Bus Cables for Ethernet, Typ 841, 843

Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
	841	6	PVC	CuZn-Ni	PUR
	841	10	PVC	CuZn-Ni	PUR
	843	15	PVC	CuZn-Ni	PUR
	841	6	PVC	CuZn-Ni	PUR
	841	10	PVC	CuZn-Ni	PUR
	843	15	PVC	CuZn-Ni	PUR
	841	6	PVC		
	841	10	PVC		
	843	15	PVC		
 	841	0.5	PVC	CuZn-Ni	PUR
	841	1	PVC	CuZn-Ni	PUR
	841	2	PVC	CuZn-Ni	PUR
	841	4	PVC	CuZn-Ni	PUR
	841	6	PVC	CuZn-Ni	PUR
	841	10	PVC	CuZn-Ni	PUR
	843	15	PVC	CuZn-Ni	PUR
	843	30	PVC	CuZn-Ni	PUR

Anschlussbelegung
Pin Configuration

C066

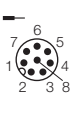


1 = n.c.
2 = n.c.
3 = n.c.
4 = TX –
5 = RX +
6 = TX +
7 = n.c.
8 = RX –

C067

1 = TX +
2 = TX –
3 = RX +
4 = n.c.
5 = n.c.
6 = RX –
7 = n.c.
8 = n.c.

C068



1 = n.c.
2 = n.c.
3 = n.c.
4 = TX –
5 = RX +
6 = TX +
7 = n.c.
8 = RX –

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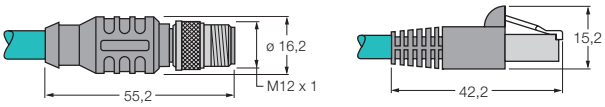
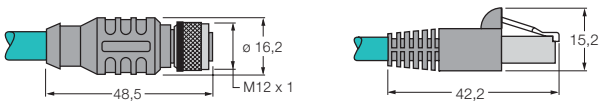
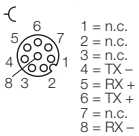
Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
RSS-841-6M	6603696	C068		•	UL	IP67
RSS-841-10M	6603697	C068		•	UL	IP67
RSS-843-15M	6611000	C068		–	UL	IP67
RKS-841-6M	6603699	C066		•	UL	IP67
RKS-841-10M	6603700	C066		•	UL	IP67
RKS-843-15M	6611001	C066		–	UL	IP67
RJ45S-841-6M	6603710	C067		•	UL	IP20
RJ45S-841-10M	6603711	C067		•	UL	IP20
RJ45S-843-15M	6611004	C067		–	UL	IP20
RSS-RSS-841-0,5M	6603702	C068 / C068		•	UL	IP67 / IP67
RSS-RSS-841-1M	6603703	C068 / C068		•	UL	IP67 / IP67
RSS-RSS-841-2M	6603704	C068 / C068		•	UL	IP67 / IP67
RSS-RSS-841-4M	6603705	C068 / C068		•	UL	IP67 / IP67
RSS-RSS-841-6M	6603706	C068 / C068		•	UL	IP67 / IP67
RSS-RSS-841-10M	6603707	C068 / C068		•	UL	IP67 / IP67
RSS-RSS-843-15M	6611002	C068 / C068		–	UL	IP67 / IP67
RSS-RSS-843-30M	6611003	C068 / C068		–	UL	IP67 / IP67

Vorkonfektionierte Buskabel für Ethernet, Typ 841, 843
Premoulded Bus Cables for Ethernet, Typ 841, 843

Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	Überwurfmutter Coupling nut	Griffteil Grip
	841	0.5	PVC		
	841	1	PVC		
	841	2	PVC		
	841	4	PVC		
	841	6	PVC		
	841	10	PVC		
	843	15	PVC		
	843	30	PVC		
	841	0.5	PVC	CuZn-Ni	PUR
	841	0.5	PVC	CuZn-Ni	PUR

Anschlussbelegung
Pin Configuration

C066

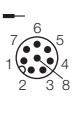


1 = n.c.
2 = n.c.
3 = n.c.
4 = TX –
5 = RX +
6 = TX +
7 = n.c.
8 = RX –

C067

1 = TX +
2 = TX –
3 = RX +
4 = n.c.
5 = n.c.
6 = RX –
7 = n.c.
8 = n.c.

C068



1 = n.c.
2 = n.c.
3 = n.c.
4 = TX –
5 = RX +
6 = TX +
7 = n.c.
8 = RX –

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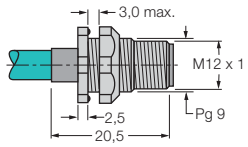
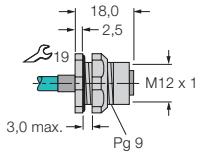
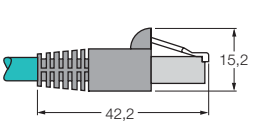
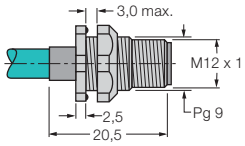
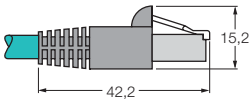
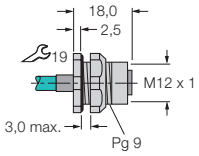
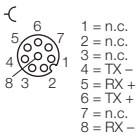
Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
RJ45S-RJ45S-841-0,5M	6603713	C067 / C067		•	UL	IP20 / IP20
RJ45S-RJ45S-841-1M	6603714	C067 / C067		•	UL	IP20 / IP20
RJ45S-RJ45S-841-2M	6603715	C067 / C067		•	UL	IP20 / IP20
RJ45S-RJ45S-841-4M	6603716	C067 / C067		•	UL	IP20 / IP20
RJ45S-RJ45S-841-6M	6603717	C067 / C067		•	UL	IP20 / IP20
RJ45S-RJ45S-841-10M	6603718	C067 / C067		•	UL	IP20 / IP20
RJ45S-RJ45S-843-15M	6611005	C067 / C067		–	UL	IP20 / IP20
RJ45S-RJ45S-843-30M	6611006	C067 / C067		–	UL	IP20 / IP20
RSS-RJ45S-841-0,5M	6603721	C068 / C067		•	UL	IP67 / IP20
RKS-RJ45S-841-0,5M	6603722	C066 / C067		•	UL	IP67 / IP20

Vorkonfektionierte Buskabel für Ethernet, Typ 841
Premoulded Bus Cables for Ethernet, Typ 841

Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip	
	841	0.5	PVC	CuZn-Ni		
	841	0.5	PVC	CuZn-Ni		
 	841	0.5	PVC	CuZn-Ni		
 	841	0.5	PVC	CuZn-Ni		

Anschlussbelegung
Pin Configuration

C066

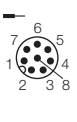


1 = n.c.
2 = n.c.
3 = n.c.
4 = TX –
5 = RX +
6 = TX +
7 = n.c.
8 = RX –

C067

1 = TX +
2 = TX –
3 = RX +
4 = n.c.
5 = n.c.
6 = RX –
7 = n.c.
8 = n.c.

C068



1 = n.c.
2 = n.c.
3 = n.c.
4 = TX –
5 = RX +
6 = TX +
7 = n.c.
8 = RX –

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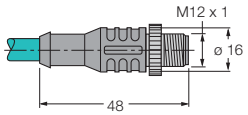
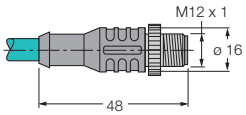
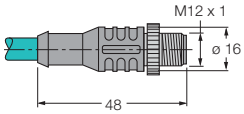
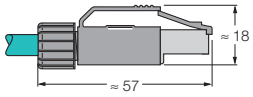
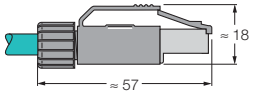
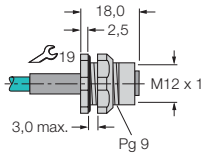
Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
FSSD-841-0,5M	6603723	C068		•	UL	IP67
FKSD-841-0,5M	6603724	C066		•	UL	IP67
RJ45S-FSSD-841-0,5M	6603727	C067 / C068		•	UL	IP20 / IP67
RJ45S-FKSD-841-0,5M	6603728	C067 / C066		•	UL	IP20 / IP67

Vorkonfektionierte Buskabel für Ethernet, Typ 441/S2174
Premoulded Bus Cables for Ethernet, Typ 441/S2174

Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
 	441/S2174	0.5	PUR	CuZn-Ni	PUR
	441/S2174	2	PUR	CuZn-Ni	PUR
	441/S2174	6	PUR	CuZn-Ni	PUR
	441/S2174	10	PUR	CuZn-Ni	PUR
 	441/S2174	0.5	PUR	CuZn-Ni	PUR
	441/S2174	6	PUR	CuZn-Ni	PUR
	441/S2174	10	PUR	CuZn-Ni	PUR
 	441/S2174	0.5	PUR	CuZn-Ni	PUR

Anschlussbelegung
Pin Configuration

C061

1 = TD +
2 = RD +
3 = TD –
4 = RD –

C063

1 = TD +
2 = RD +
3 = TD –
4 = RD –

C067

1 = TX +
2 = TX –
3 = RX +
4 = n.c.
5 = n.c.
6 = RX –
7 = n.c.
8 = n.c.

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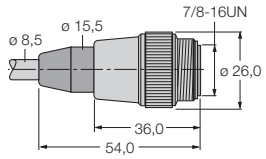
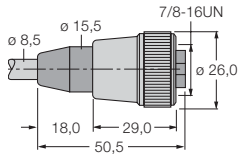
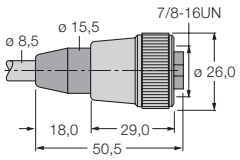
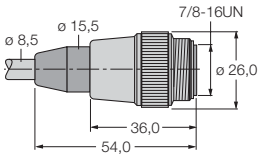
Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
RSSD-RSSD-441-0,5M/S2174	6914217	C061 / C061	D	•	UL	IP67 / IP67
RSSD-RSSD-441-2M/S2174	6914218	C061 / C061	D	•	UL	IP67 / IP67
RSSD-RSSD-441-6M/S2174	6914219	C061 / C061	D	•	UL	IP67 / IP67
RSSD-RSSD-441-10M/S2174	6914220	C061 / C061	D	•	UL	IP67 / IP67
RSSD-RJ45-441-0,5M/S2174	6914224	C061 / C067	D	•	UL	IP67 / IP20
RSSD-RJ45-441-6M/S2174	6914222	C061 / C067	D	•	UL	IP67 / IP20
RSSD-RJ45-441-10M/S2174	6914223	C061 / C067	D	•	UL	IP67 / IP20
RJ45-FKSDD-441-0,5M/S2174	6914221	C067 / C063	D	•	UL	IP20 / IP67

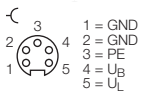
Vorkonfektionierte Versorgungskabel für PROFIBUS-DP, Typ 52
Premoulded Power Cables for PROFIBUS-DP, Type 52

Konfektionierbare Steckverbinder siehe Seite A4 – 3
Field wireable connectors see page A4 – 3

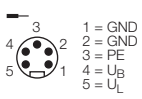
Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
Kabel-Meterware Bulk cable	52	30	PUR		
	52	150	PUR		
	52	500	PUR		
	52	6	PUR	CuZn-Ni	PUR
	52	10	PUR	CuZn-Ni	PUR
	52	15	PUR	CuZn-Ni	PUR
	52	6	PUR	CuZn-Ni	PUR
	52	10	PUR	CuZn-Ni	PUR
	52	15	PUR	CuZn-Ni	PUR
 	52	0.3	PUR	CuZn-Ni	PUR
	52	0.5	PUR	CuZn-Ni	PUR
	52	1	PUR	CuZn-Ni	PUR
	52	2	PUR	CuZn-Ni	PUR
	52	4	PUR	CuZn-Ni	PUR
	52	6	PUR	CuZn-Ni	PUR
	52	10	PUR	CuZn-Ni	PUR
	52	15	PUR	CuZn-Ni	PUR
	52	30	PUR	CuZn-Ni	PUR

Anschlussbelegung
Pin Configuration

C056



C058



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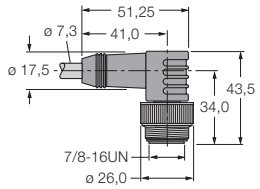
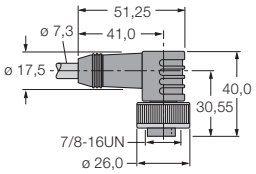
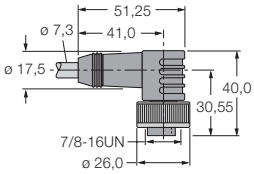
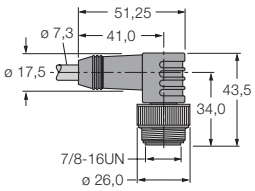
Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
KABEL-PDP-52-30M	6604701			•	–	
KABEL-PDP-52-150M	6604703			•	–	
KABEL-PDP-52-500M	6604706			•	–	
RSM52-6M	6914142	C058		•	–	IP67
RSM52-10M	6914143	C058		•	–	IP67
RSM52-15M	6914144	C058		•	–	IP67
RKM52-6M	6914145	C056		•	–	IP67
RKM52-10M	6914146	C056		•	–	IP67
RKM52-15M	6914147	C056		•	–	IP67
RKM52-0,3-RSM52	6604743	C056 / C058		•	–	IP67 / IP67
RKM52-0,5-RSM52	6914148	C056 / C058		•	–	IP67 / IP67
RKM52-1-RSM52	6914149	C056 / C058		•	–	IP67 / IP67
RKM52-2-RSM52	6914150	C056 / C058		•	–	IP67 / IP67
RKM52-4-RSM52	6914151	C056 / C058		•	–	IP67 / IP67
RKM52-6-RSM52	6914152	C056 / C058		•	–	IP67 / IP67
RKM52-10-RSM52	6914153	C056 / C058		•	–	IP67 / IP67
RKM52-15-RSM52	6914154	C056 / C058		•	–	IP67 / IP67
RKM52-30-RSM52	6914306	C056 / C058		•	–	IP67 / IP67

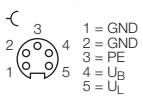
Vorkonfektionierte Versorgungskabel für PROFIBUS-DP, Typ 52
Premoulded Power Cables for PROFIBUS-DP, Type 52

Konfektionierbare Steckverbinder siehe Seite A4 – 3
Field wireable connectors see page A4 – 3

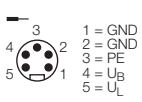
Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
	52	6	PUR	CuZn-Ni	PUR
	52	10	PUR	CuZn-Ni	PUR
	52	15	PUR	CuZn-Ni	PUR
	52	6	PUR	CuZn-Ni	PUR
	52	10	PUR	CuZn-Ni	PUR
	52	15	PUR	CuZn-Ni	PUR
 	52	0.3	PUR	CuZn-Ni	PUR
	52	0.5	PUR	CuZn-Ni	PUR
	52	1	PUR	CuZn-Ni	PUR
	52	2	PUR	CuZn-Ni	PUR
	52	4	PUR	CuZn-Ni	PUR
	52	6	PUR	CuZn-Ni	PUR
	52	10	PUR	CuZn-Ni	PUR
	52	15	PUR	CuZn-Ni	PUR
	52	30	PUR	CuZn-Ni	PUR

Anschlussbelegung
Pin Configuration

C056



C058



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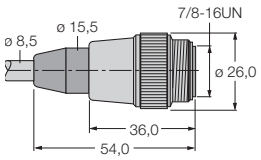
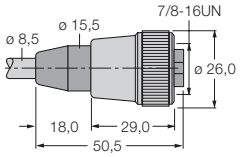
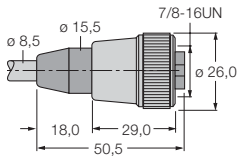
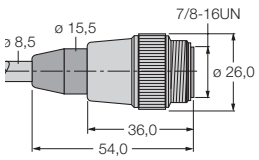
Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
WSM52-6M	6604788	C058		•	–	IP67
WSM52-10M	6604790	C058		•	–	IP67
WSM52-15M	6604791	C058		•	–	IP67
WKM52-6M	6604770	C056		•	–	IP67
WKM52-10M	6604772	C056		•	–	IP67
WKM52-15M	6604773	C056		•	–	IP67
WKM52-0,3-WSM52	6604797	C056 / C058		•	–	IP67 / IP67
WKM52-0,5-WSM52	6604798	C056 / C058		•	–	IP67 / IP67
WKM52-1-WSM52	6604799	C056 / C058		•	–	IP67 / IP67
WKM52-2-WSM52	6604801	C056 / C058		•	–	IP67 / IP67
WKM52-4-WSM52	6604804	C056 / C058		•	–	IP67 / IP67
WKM52-6-WSM52	6604806	C056 / C058		•	–	IP67 / IP67
WKM52-10-WSM52	6604808	C056 / C058		•	–	IP67 / IP67
WKM52-15-WSM52	6604809	C056 / C058		•	–	IP67 / IP67
WKM52-30-WSM52	6604812	C056 / C058		•	–	IP67 / IP67

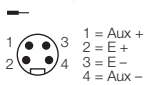
Vorkonfektionierte Versorgungskabel für DeviceNet™, Typ 43
Premoulded Power Cables for DeviceNet™, Type 43

Konfektionierbare Steckverbinder siehe Seite A4 – 6
Field wireable connectors see page A4 – 6

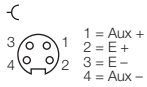
Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
Kabel-Meterware Bulk cable	43	30	PUR		
	43	150	PUR		
	43	500	PUR		
	43	6	PUR	CuZn-Ni	PUR
	43	10	PUR	CuZn-Ni	PUR
	43	15	PUR	CuZn-Ni	PUR
	43	6	PUR	CuZn-Ni	PUR
	43	10	PUR	CuZn-Ni	PUR
	43	15	PUR	CuZn-Ni	PUR
 	43	0.3	PUR	CuZn-Ni	PUR
	43	0.5	PUR	CuZn-Ni	PUR
	43	1	PUR	CuZn-Ni	PUR
	43	2	PUR	CuZn-Ni	PUR
	43	4	PUR	CuZn-Ni	PUR
	43	6	PUR	CuZn-Ni	PUR
	43	10	PUR	CuZn-Ni	PUR
	43	15	PUR	CuZn-Ni	PUR

Anschlussbelegung
Pin Configuration

C057



C060



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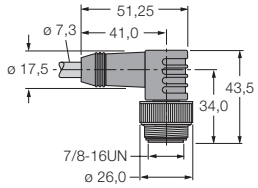
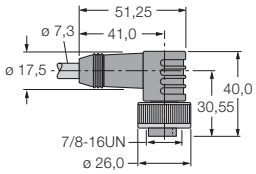
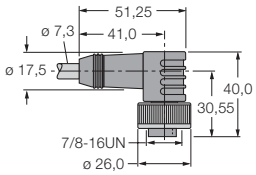
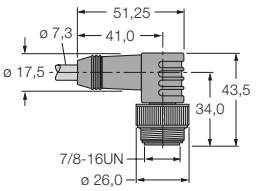
Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
KABEL-DN-43-30M	6915800			•	–	
KABEL-DN-43-150M	6915802			•	–	
KABEL-DN-43-500M	6915805			•	–	
RSM43-6M	6915621	C057		•	–	IP67
RSM43-10M	6915622	C057		•	–	IP67
RSM43-15M	6915623	C057		•	–	IP67
RKM43-6M	6914307	C060		•	–	IP67
RKM43-10M	6914308	C060		•	–	IP67
RKM43-15M	6914310	C060		•	–	IP67
RKM43-0,3-RSM43	6914319	C060 / C057		•	–	IP67 / IP67
RKM43-0,5-RSM43	6914311	C060 / C057		•	–	IP67 / IP67
RKM43-1-RSM43	6914312	C060 / C057		•	–	IP67 / IP67
RKM43-2-RSM43	6914313	C060 / C057		•	–	IP67 / IP67
RKM43-4-RSM43	6914314	C060 / C057		•	–	IP67 / IP67
RKM43-6-RSM43	6914315	C060 / C057		•	–	IP67 / IP67
RKM43-10-RSM43	6914316	C060 / C057		•	–	IP67 / IP67
RKM43-15-RSM43	6914317	C060 / C057		•	–	IP67 / IP67

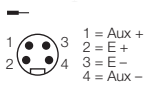
Vorkonfektionierte Versorgungskabel für DeviceNet™, Typ 43
Premoulded Power Cables for DeviceNet™, Type 43

Konfektionierbare Steckverbinder siehe Seite A4 – 6
Field wireable connectors see page A4 – 6

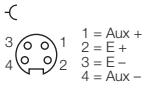
Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
	43	6	PUR	CuZn-Ni	PUR
	43	10	PUR	CuZn-Ni	PUR
	43	15	PUR	CuZn-Ni	PUR
	43	6	PUR	CuZn-Ni	PUR
	43	10	PUR	CuZn-Ni	PUR
	43	15	PUR	CuZn-Ni	PUR
 	43	0.3	PUR	CuZn-Ni	PUR
	43	0.5	PUR	CuZn-Ni	PUR
	43	1	PUR	CuZn-Ni	PUR
	43	2	PUR	CuZn-Ni	PUR
	43	4	PUR	CuZn-Ni	PUR
	43	6	PUR	CuZn-Ni	PUR
	43	10	PUR	CuZn-Ni	PUR
	43	15	PUR	CuZn-Ni	PUR

Anschlussbelegung
Pin Configuration

C057



C060



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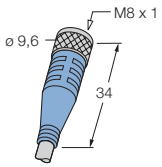
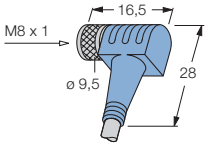
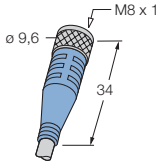
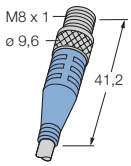
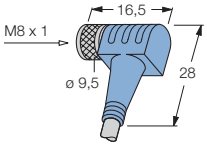
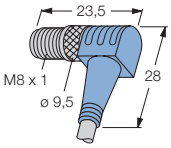
Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
WSM43-6M	6915844	C057		•	–	IP67
WSM43-10M	6915845	C057		•	–	IP67
WSM43-15M	6915846	C057		•	–	IP67
WKM43-6M	6913940	C060		•	–	IP67
WKM43-10M	6913941	C060		•	–	IP67
WKM43-15M	6913942	C060		•	–	IP67
WKM43-0,3-WSM43	6913948	C060 / C057		•	–	IP67 / IP67
WKM43-0,5-WSM43	6913949	C060 / C057		•	–	IP67 / IP67
WKM43-1-WSM43	6913950	C060 / C057		•	–	IP67 / IP67
WKM43-2-WSM43	6913951	C060 / C057		•	–	IP67 / IP67
WKM43-4-WSM43	6913916	C060 / C057		•	–	IP67 / IP67
WKM43-6-WSM43	6913918	C060 / C057		•	–	IP67 / IP67
WKM43-10-WSM43	6913917	C060 / C057		•	–	IP67 / IP67
WKM43-15-WSM43	6913928	C060 / C057		•	–	IP67 / IP67

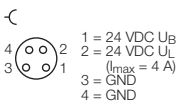
Vorkonfektionierte Versorgungskabel für *piconet*®
Premoulded Power Cables for *piconet*®

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

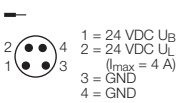
Abmessungen/Bauform Dimensions/Housing style [mm]	Kabeltyp Cable type	Kabellänge Cable length [m]	Werkstoffe/Materials Kabelmantel Cable jacket	 Überwurfmutter Coupling nut	 Griffteil Grip
	IPS	2	PUR	CuZn-Ni	PUR
	IPS	5	PUR	CuZn-Ni	PUR
	IPS	10	PUR	CuZn-Ni	PUR
	IPS	2	PUR	CuZn-Ni	PUR
	IPS	5	PUR	CuZn-Ni	PUR
	IPS	10	PUR	CuZn-Ni	PUR
 	IPS	0.15	PUR	CuZn-Ni	PUR
	IPS	0.5	PUR	CuZn-Ni	PUR
	IPS	1	PUR	CuZn-Ni	PUR
	IPS	2	PUR	CuZn-Ni	PUR
	IPS	5	PUR	CuZn-Ni	PUR
 	IPS	0.15	PUR	CuZn-Ni	PUR
	IPS	0.5	PUR	CuZn-Ni	PUR
	IPS	1	PUR	CuZn-Ni	PUR
	IPS	2	PUR	CuZn-Ni	PUR
	IPS	5	PUR	CuZn-Ni	PUR

Anschlussbelegung
Pin Configuration

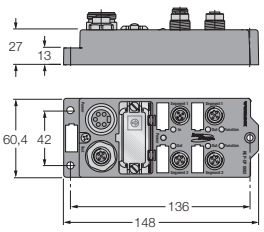
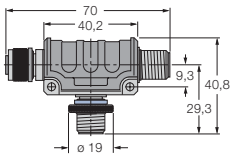
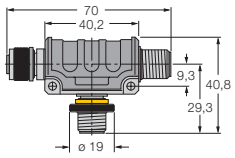
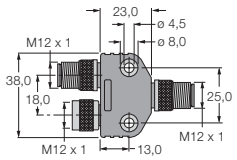
C059



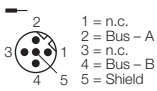
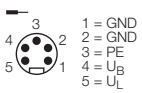
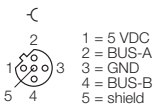
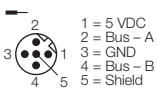
C062

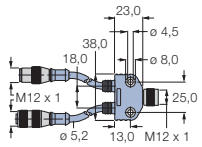
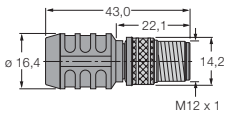
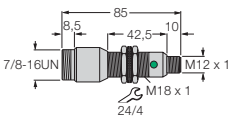


Typenbezeichnung Type	Ident-Nr. Ident no.	Anschluss Connection	Steckverbinder-codierung Connector coding	Schleppkettenfähig Suited to trailing applications	Zulassungen Approvals	Schutzart Degree of protection
IPSKP4-2/S90	6900323	C059		•	–	IP67
IPSKP4-5/S90	6900325	C059		•	–	IP67
IPSKP4-10/S90	6900321	C059		•	–	IP67
IPSWKP4-2/S90	6900331	C059		•	–	IP67
IPSWKP4-5/S90	6900333	C059		•	–	IP67
IPSWKP4-10/S90	6900329	C059		•	–	IP67
IPSKP4-0,15-SSP4/S90	6900334	C059 / C062		•	–	IP67 / IP67
IPSKP4-0,5-SSP4/S90	6900320	C059 / C062		•	–	IP67 / IP67
IPSKP4-1-SSP4/S90	6900322	C059 / C062		•	–	IP67 / IP67
IPSKP4-2-SSP4/S90	6900324	C059 / C062		•	–	IP67 / IP67
IPSKP4-5-SSP4/S90	6900326	C059 / C062		•	–	IP67 / IP67
IPSWKP4-0,15-SWSP4/S90	6900327	C059 / C062		•	–	IP67 / IP67
IPSWKP4-0,5-SWSP4/S90	6900328	C059 / C062		•	–	IP67 / IP67
IPSWKP4-1-SWSP4/S90	6900330	C059 / C062		•	–	IP67 / IP67
IPSWKP4-2-SWSP4/S90	6900332	C059 / C062		•	–	IP67 / IP67
IPSWKP4-5-SWSP4/S90	6900319	C059 / C062		•	–	IP67 / IP67

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	PROFIBUS-DP Repeater, M12 B-codiert, bis 12 MBit/s, IP67 PROFIBUS-DP Repeater, M12 B-coded, up to 12 MBps, IP67	1 x 7/8" (F052) 1 x M12 (F100) 4 x M12 (F083)	**REP-DP 0002**	6825354
	Bus-T-Stück, geschirmt, 12 MBit/s Bus tee, shielded, 12 MBps	2 x M12 (F100) 1 x M12 (F083)	**RKSWS4.5[5]-2RSSWS**	6999021
	Bus-T-Stück, geschirmt, 12 MBit/s, direkte T-Stück Kopplung möglich Bus tee, shielded, 12 MBps, direct coupling possible	1 x M12 (F008) 1 x M12 (F083) 1 x M12 (F100)	**RKSW-2RSSW45-0001**	6914180
	Bus-Y-Stück, komplett geschirmt, 12 MBit/s Bus Y junction, fully shielded, 12 MBps	2 x M12 (F100) 1 x M12 (F083)	**VB2-FSW-FKW-FSW-45**	6996009

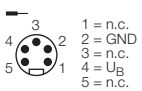
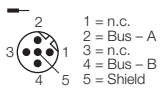
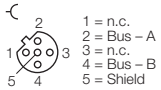
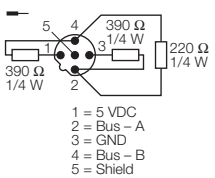
Anschlussbelegung
Pin Configuration

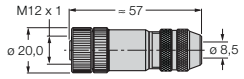
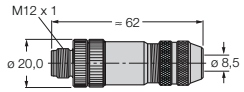
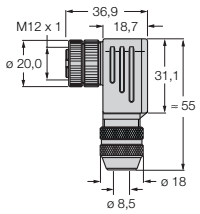
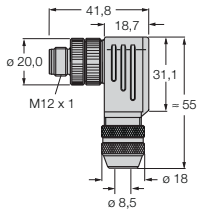
(F008)	(F052)	(F083)	(F100)
			

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	Bus-Y-Stück, komplett geschirmt, 12 MBit/s, 2 x 0,5 m Bus Y-piece, fully shielded, 12 MBps, 2 x 0.5 m	2 x M12 (F008) 1 x M12 (F034)	**VB2-FSW/RSSW-RKSW455-0.5M-0.5M**	6696038
	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" (F006)	**PDP-TRA**	6825346

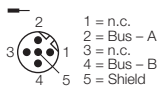
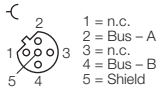
A3

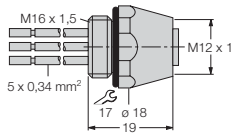
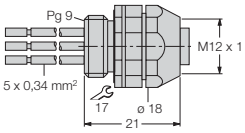
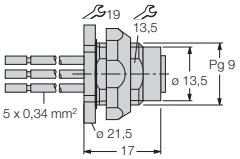
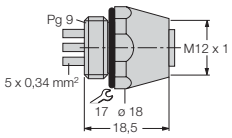
Anschlussbelegung
Pin Configuration

(F006)	(F008)	(F034)	(F035)
			

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	Konfektionierbare M12-Kupplung, gerade, Metallgehäuse, schirmbar Field-wireable female M12 connector, straight, metal housing, shieldable	1 x M12 (F034)	**BMWS8151-8,5**	6904721
	Konfektionierbarer M12-Stecker, gerade, Metallgehäuse, schirmbar Field-wireable male M12 connector, straight, metal housing, shieldable	1 x M12 (F008)	**BMSWS8151-8,5**	6904722
	Konfektionierbare M12-Kupplung, abgewinkelt, Metallgehäuse, schirmbar Field-wireable female M12 connector, angled, metal housing, shieldable	1 x M12 (F034)	**BMWS8251-8,5**	6904723
	Konfektionierbarer M12-Stecker, abgewinkelt, Metallgehäuse, schirmbar Field-wireable male M12 connector, angled, metal housing, shieldable	1 x M12 (F008)	**BMSWS8251-8,5**	6904724

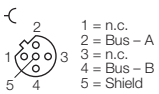
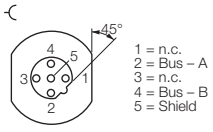
Anschlussbelegung
Pin Configuration

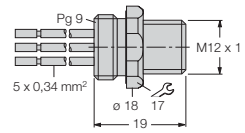
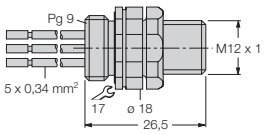
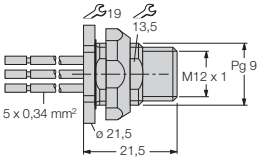
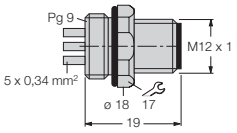
(F008)	**(F034)**		
			

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	M12-Kupplung, frontseitig schraubbar, 0,5 m Litze Female M12 connector, for front screw connection, 0.5 m litz wire	1 x M12 (F034)	**FKW4.54-0,5**	8016042
	M12-Kupplung, frontseitig schraubbar, drehbar, 0,5 m Litze Female M12 connector, for front screw connection, rotatable, 0.5 m litz wire	1 x M12 (F034)	**FKDW4.54-0,5**	8015777
	M12-Kupplung, Rückwandmontage, 0,5 m Litze Female M12 connector, for back-panel mounting , 0.5 m litz wire	1 x M12 (F101)	**FKFDW4.54-0,5**	8016041
	M12-Kupplung, frontseitig schraubbar Male M12 connector, for front screw connection	1 x M12 (F034)	**FKW5L**	8016718

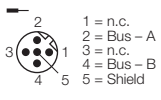
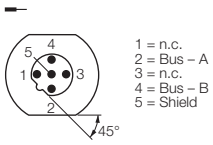
A3

Anschlussbelegung
Pin Configuration

(F034)	(F101)		
			

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	M12-Stecker, frontseitig schraubbar, 0,5 m Litze Male M12 connector, for front screw connection, 0.5 m litz wire	1 x M12 (F008)	**FSW4.54-0,5**	8016038
	M12-Stecker, frontseitig schraubbar, drehbar, 0,5 m Litze Male M12 connector, for front screw connection, rotatable, 0.5 m litz wire	1 x M12 (F008)	**FSDW4.54-0,5**	8015776
	M12-Stecker, Rückwandmontage, 0,5 m Litze Male M12 connector, for back-panel mounting , 0.5 m litz wire	1 x M12 (F099)	**FSFDW4.54-0,5**	8016043
	M12-Stecker, frontseitig schraubbar Male M12 connector, for front screw connection	1 x M12 (F008)	**FSW5L**	8016717

Anschlussbelegung
Pin Configuration

(F008)	**(F099)**		
			

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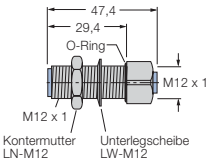
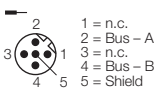
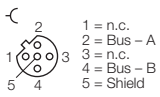
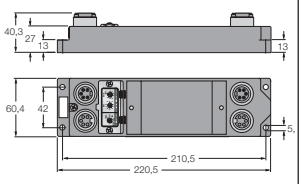
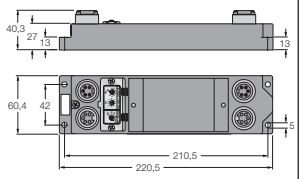
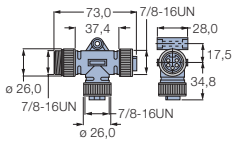
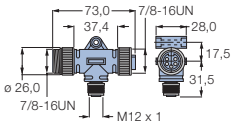
Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	M12-Durchführung, Stecker, Kupplung, Lochmaß 12,7mm M12 feed-through connection male/female, through-hole 12.7 mm	1 x M12 (F008) 1 x M12 (F034)	**FKW-FSW45-M12**	6602309

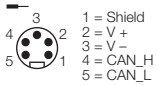
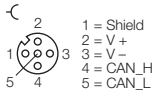
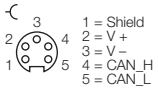
Anschlussbelegung
Pin Configuration

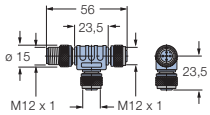
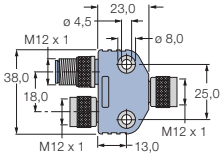
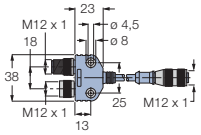
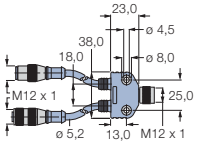
(F008)	(F034)		
			

A3

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	CAN/DeviceNet Repeater, 7/8“ 5-polig, bis 500 KBit/s, IP67 CAN/DeviceNet repeater, 7/8" 5-pole, up to 500 Kbps, IP67	2 x 7/8" (F060) 2 x 7/8" (F065)	**REP-DN**	6825349
	DeviceNet™-Spanner, 7/8“ 5-polig, bis 128 Byte Daten, IP67 DeviceNet™ spanner, 7/8" 5-pole, up to 128 data bytes, IP67	2 x 7/8" (F060) 2 x 7/8" (F065)	**FDN-DN1**	6603596
	T-Stück für Bus und Versorgung Nicht geeignet für piconet®-Module! T piece for bus and power Not suitable for piconet® modules!	1 x 7/8" (F060) 2 x 7/8" (F065)	**RSM-2RKM57**	6602007
	T-Stück für Bus und Versorgung T piece for bus and power	1 x 7/8" (F060) 1 x 7/8" (F065) 1 x M12 (F061)	**RSM-FKM-RKM57**	6602392

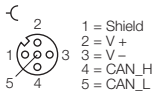
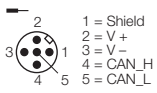
Anschlussbelegung
Pin Configuration

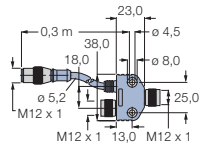
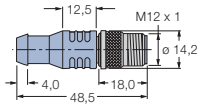
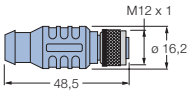
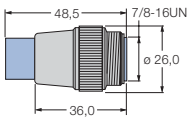
(F060)	(F061)	(F065)	
			

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	T-Stück für Bus und Versorgung T piece for bus and power	2 x M12 (F061) 1 x M12 (F098)	**FSM-2FKM57**	6622101
	Y-Stück für Bus und Versorgung Y piece for bus and power	2 x M12 (F061) 1 x M12 (F098)	**VB2-FKM-FKM-FSM57**	6602331
	Y-Stück für Bus und Versorgung Y piece for bus and power	2 x M12 (F061) 1 x M12 (F098)	**VB2-RKC572-1M-FKM-FSM**	6996011
	Y-Stück für Bus und Versorgung Y piece for bus and power	2 x M12 (F061) 1 x M12 (F098)	**VB2-FKM-RKC-RSC572-0,5M-0,5M**	6602490

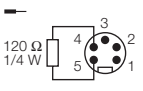
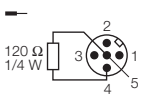
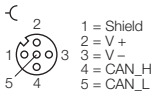
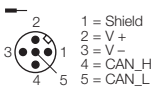
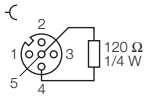
A3

Anschlussbelegung
Pin Configuration

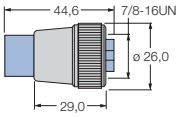
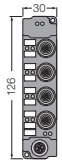
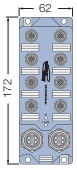
(F061)	(F098)		
			

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	Y-Stück für Bus und Versorgung Y piece for bus and power	2 x M12 (F061) 1 x M12 (F098)	**VB2-FKM-FKM-RSC572-1M**	6602613
	Abschlusswiderstand (Stecker) Terminating resistor (male)	1 x M12 (F038)	**RSE57-TR2**	6602308
	Abschlusswiderstand (Kupplung) Terminating resistor (female)	1 x M12 (F104)	**RKE57-TR2**	6602629
	Abschlusswiderstand (Stecker) Terminating resistor (male)	1 x 7/8" (F036)	**RSM57-TR2**	6602011

Anschlussbelegung Pin Configuration

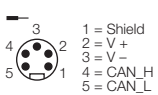
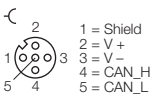
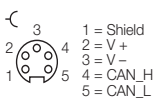
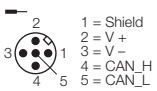
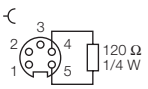
(F036)	(F038)	(F061)	(F098)	(F104)
				

Abschlusswiderstände/Passiv-Verteiler
Terminating Resistors/Junction Tees

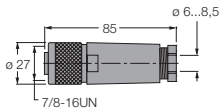
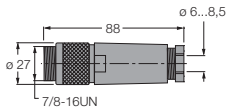
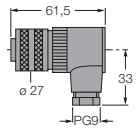
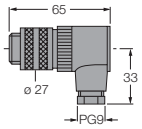
Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	Abschlusswiderstand (Kupplung) Terminating resistor (female)	1 x 7/8" (F108)	**RKM57-TR2**	6602065
	4fach-Passiv-Verteiler, IP67 4-port passive junction, IP67	1 x M12 (F098) 4 x M12 (F061)	**JBBS-57-E411**	6603378
	8fach-Passiv-Verteiler, IP67, Spannungsüberwachung 8-port passive junction, IP67, voltage monitoring	1 x 7/8" (F060) 1 x 7/8" (F065) 8 x M12 (F061)	**JBBS-57-E811-VM**	6602068

A3

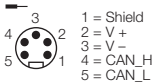
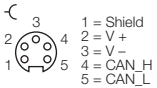
Anschlussbelegung
Pin Configuration

(F060)	(F061)	(F065)	(F098)	(F108)
 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	 1 = Shield 2 = V + 3 = V – 4 = CAN_H 5 = CAN_L

Konfektionierbare Steckverbinder
Field wireable Connectors

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	Konfektionierbare 7/8“-Kupplung, Klemmbereich: 6...8 mm Field-wireable female 7/8" connector, clamping width: 6...8 mm	1 x 7/8" (F065)	**B4151-0/9**	6904717
	Konfektionierbarer 7/8“-Stecker, Klemmbereich: 6...8 mm Field-wireable male 7/8" connector, clamping width: 6...8 mm	1 x 7/8" (F060)	**BS4151-0/9**	6904718
	Konfektionierbare 7/8“-Kupplung, Klemmbereich: 6...8 mm Field-wireable female 7/8" connector, clamping width: 6...8 mm	1 x 7/8" (F065)	**B4251-0/9**	6901113
	Konfektionierbarer 7/8“-Stecker, Klemmbereich: 6...8 mm Field-wireable male 7/8" connector, clamping width: 6...8 mm	1 x 7/8" (F060)	**BS4251-0/9**	6901112

Anschlussbelegung
Pin Configuration

(F060)	(F065)		
			

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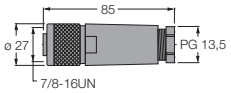
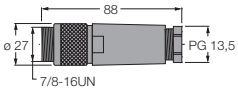
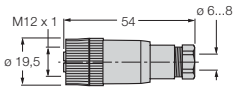
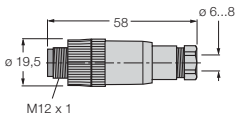
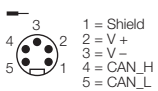
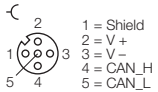
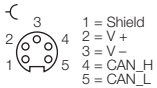
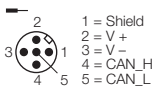
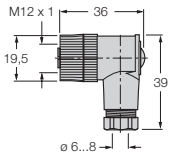
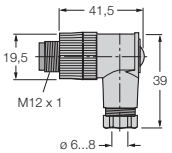
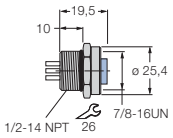
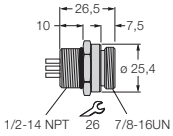
Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	Konfektionierbare 7/8“-Kupplung, Klemmbereich: 6...12 mm Field-wireable female 7/8" connector, clamping width: 6...12 mm	1 x 7/8" (F065)	**B4151-0/13.5**	6904715
	Konfektionierbarer 7/8“-Stecker, Klemmbereich: 6...12 mm Field-wireable male 7/8" connector, clamping width: 6...12 mm	1 x 7/8" (F060)	**BS4151-0/13.5**	6904716
	Konfektionierbare M12-Kupplung, Klemmbereich: 6...8 mm Field-wireable female M12 connector, clamping width: 6...8 mm	1 x M12 (F061)	**B8151-0/9**	6904604
	Konfektionierbarer M12-Stecker, Klemmbereich: 6...8 mm Field-wireable male M12 connector, clamping width: 6...8 mm	1 x M12 (F098)	**BS8151-0/9**	6904613

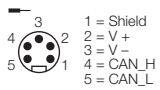
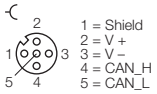
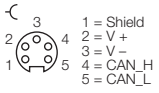
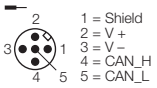
A3

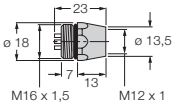
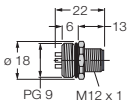
Anschlussbelegung
Pin Configuration

(F060)	(F061)	(F065)	(F098)
			

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	Konfektionierbare M12-Kupplung, Klemmbereich: 6...8 mm Field-wireable female M12 connector, clamping width: 6...8 mm	1 x M12 (F061)	**B8251-0/9**	6904603
	Konfektionierbarer M12-Stecker, Klemmbereich: 6...8 mm Field-wireable male M12 connector, clamping width: 6...8 mm	1 x M12 (F098)	**BS8251-0/9**	6904615
	Lötbare 7/8“-Flanschkupplung Solderable female 7/8" flange connector	1 x 7/8" (F065)	**RKF57**	6602217
	Lötbarer 7/8“-Flanschstecker Solderable male 7/8" flange connector	1 x 7/8" (F060)	**RSF57**	6602342

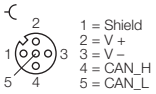
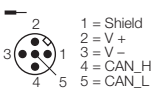
Anschlussbelegung
Pin Configuration

(F060)	(F061)	(F065)	(F098)
			

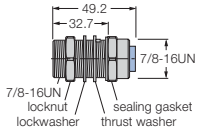
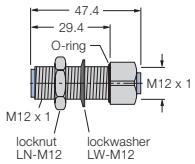
Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	Lötbare M12-Flanschkupplung Solderable female M12 flange connection	1 x M12 (F061)	**FK57**	6602216
	Lötbarer M12-Flanschstecker Solderable male M12 flange connection	1 x M12 (F098)	**FS57**	6602314

A3

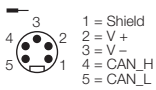
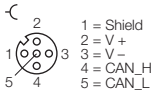
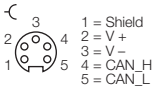
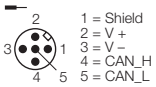
Anschlussbelegung
Pin Configuration

(F061)	(F098)		
			

Durchführungen
Feed-through Receptacles

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	7/8“-Durchführung, Stecker, Kupplung, Lochmaß 22,5 mm 7/8" feed-through connection, male, female, hole diameter 22.5 mm	1 x 7/8" (F060) 1 x 7/8" (F065)	**RSF-RKF-57/22**	6602218
	M12-Durchführung, Stecker, Kupplung, Lochmaß 12,7mm M12 feed-through connection male, female, hole diameter 12.7 mm	1 x M12 (F098) 1 x M12 (F061)	**FKM-FS57-M12**	6602223

Anschlussbelegung
Pin Configuration

(F060)	(F061)	(F065)	(F098)
 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

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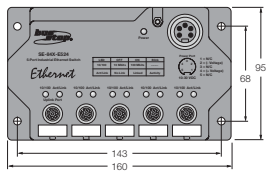
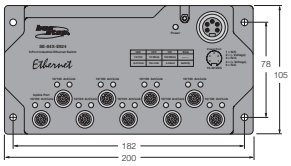
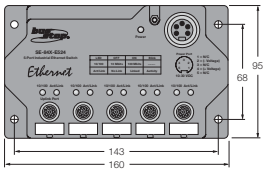
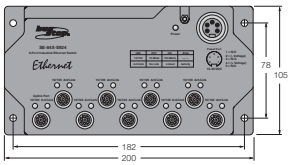
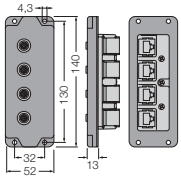
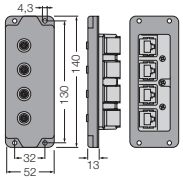
Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	5-Port Ethernet Switch, M12 D-kodiert, 10/100 MBit/s, IP67 5-port Ethernet switch, M12 D-coded, 10/100 MBps, IP67	1 x 7/8" (F006) 5 x M12 (F103)	**SE-44X-E524**	6607003
	9 Port Ethernet Switch, M12 D-kodiert, 10/100 MBit/s, IP67 9-port Ethernet switch, M12 D-coded, 10/100 MBps, IP67	1 x 7/8" (F006) 9 x M12 (F103)	**SE-44X-E924**	6607002
	5-Port Ethernet Switch, M12 8-polig, 10/100 MBit/s, IP67 5-port Ethernet switch, M12 8-pole, 10/100 MBps, IP67	1 x 7/8" (F006) 5 x M12 (F102)	**SE-84X-E524**	6607000
	9-Port Ethernet Switch, M12 8-polig, 10/100 MBit/s, IP67 9-port Ethernet switch, M12 8-pole, 10/100 MBps, IP67	1 x 7/8" (F006) 9 x M12 (F102)	**SE-84X-E924**	6607001

A3

Anschlussbelegung
Pin Configuration

(F006)	(F102)	(F103)	
 1 = n.c. 2 = GND 3 = n.c. 4 = U_B 5 = n.c.	 1 = n.c. 2 = n.c. 3 = n.c. 4 = TX – 5 = RX + 6 = TX + 7 = n.c. 8 = RX –	 1 = TD + 2 = RD + 3 = TD – 4 = RD –	

M12/RJ45-Umsetzer
M12/RJ45 Adapter

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	4-fach M12 D-codiert/ RJ45-Gehäusedurchführung 4-port M12 D-coded/RJ45 feed-through	4 x M12 (F103) 4 x RJ45 (F105)	**BIC-44-E424**	6604407
	4-fach M12 8-polig/ RJ45-Gehäusedurchführung 4-port M12 8-pole/RJ45 feed-through	4 x M12 (F102) 4 x RJ45 (F105)	**BIC-84-E424**	6604474

Anschlussbelegung
Pin Configuration

(F102)	(F103)	(F105)	
 1 = n.c. 2 = n.c. 3 = n.c. 4 = TX – 5 = RX + 6 = TX + 7 = n.c. 8 = RX –	 1 = TD + 2 = RD + 3 = TD – 4 = RD –	 1 = TX + 2 = TX – 3 = RX + 4 = n.c. 5 = n.c. 6 = RX – 7 = n.c. 8 = n.c.	

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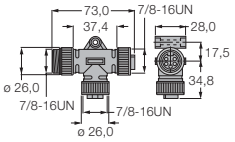
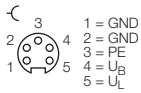
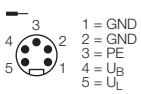
T-Stücke für Versorgungskabel, Typ 52
T-pieces for Power Cables, Type 52

Industrielle Automation

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	T-Stück für Versorgung, Nennstrom: 9 A T piece for power Rated current: 9 A	2 x 7/8" (F037) 1 x 7/8" (F052)	**RSM-2RKM50**	6914950

Anschlussbelegung
Pin Configuration

(F037)	(F052)		
			

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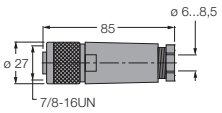
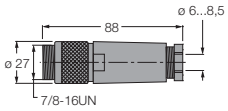
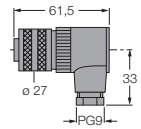
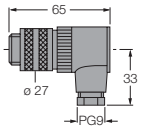
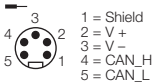
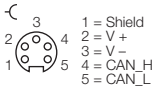
Konfektionierbare Steckverbinder für Versorgungskabel, Typ 52
Field wireable Connectors for Power Cables, Type 52

TURCK
Industrielle Automation

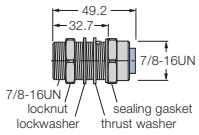
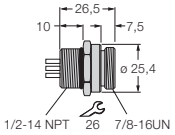
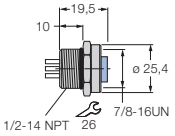
Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	Konfektionierbare 7/8“-Kupplung, Klemmbereich: 6...8 mm, Nennstrom: 9 A Field-wireable female 7/8" connector, clamping width: 6...8 mm, Rated current: 9 A	1 x 7/8" (F065)	**B4151-0/9**	6904717
	Konfektionierbarer 7/8“-Stecker, Klemmbereich: 6...8 mm Nennstrom: 9 A Field-wireable male 7/8" connector, clamping width: 6...8 mm, Rated current: 9 A	1 x 7/8" (F060)	**BS4151-0/9**	6904718
	Konfektionierbare 7/8“-Kupplung, Klemmbereich: 6...8 mm, Nennstrom: 9 A Field-wireable female 7/8" connector, clamping width: 6...8 mm, Rated current: 9 A	1 x 7/8" (F065)	**B4251-0/9**	6901113
	Konfektionierbarer 7/8“-Stecker, Klemmbereich: 6...8 mm, Nennstrom: 9 A Field-wireable male 7/8" connector, clamping width: 6...8 mm, Rated current: 9 A	1 x 7/8" (F060)	**BS4251-0/9**	6901112

Anschlussbelegung
Pin Configuration

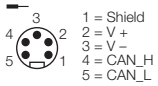
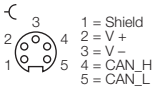
(F060)	(F065)		
			

A4

Durchführungen/Flansche für Versorgungskabel, Typ 52
Feed-through Recept./Flange Connect. for Power Cables, Type 52

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	7/8“-Durchführung, Stecker, Kupplung, Lochmaß 22,5 mm, Nennstrom: 9 A 7/8" feed-through connection, male, female, hole diameter 22.5 mm, Rated current: 9 A	1 x 7/8" (F060) 1 x 7/8" (F065)	**RSF-RKF-57/22**	6602218
	Lötbarer 7/8“-Flanschstecker, Nennstrom: 9 A Solderable male 7/8" flange connector, Rated current: 9 A	1 x 7/8" (F060)	**RSF57**	6602342
	Lötbare 7/8“-Flanschkupplung, Nennstrom: 9 A Solderable female 7/8" flange connector, Rated current: 9 A	1 x 7/8" (F065)	**RKF57**	6602217

Anschlussbelegung
Pin Configuration

(F060)	(F065)		
			

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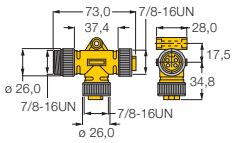
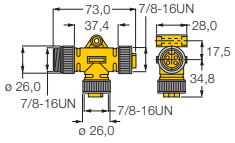
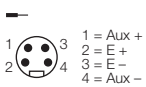
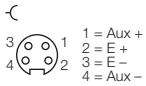
T-Stücke für Versorgungskabel, Typ 43
T-pieces for Power Cables, Type 43

Industrielle Automation

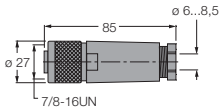
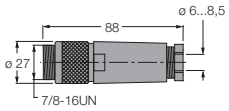
Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	T-Stück für Auxiliary-Power, Nennstrom: 9 A T piece for auxiliary power, Rated current: 9 A	1 x 7/8" (F015) 2 x 7/8" (F097)	**RSM-2RKM40**	6914828
	T-Stück für Auxiliary-Power, (Keyway facing female), Nennstrom: 9 A T piece for auxiliary power, (keyway facing female), Rated current: 9 A	1 x 7/8" (F015) 2 x 7/8" (F097)	**RKM40-RKM40-L-RSM40**	6914866

Anschlussbelegung
Pin Configuration

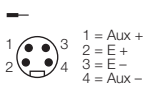
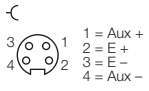
(F015)	(F097)		
			

A4

Konfektionierbare Steckverbinder für Versorgungskabel, Typ 43
Field wireable Connectors for Power Cables, Type 43

Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	Konfektionierbare 7/8“-Kupplung, Klemmbereich: 6...8 mm, Nennstrom: 9 A Field-wireable female 7/8" connector, clamping width: 6...8 mm, Rated current: 9 A	1 x 7/8" (F097)	**B4148-0/9**	6914925
	Konfektionierbarer 7/8“-Stecker, Klemmbereich: 6...8 mm, Nennstrom: 9 A Field-wireable male 7/8" connector, clamping width: 6...8 mm, Rated current: 9 A	1 x 7/8" (F015)	**BS4148-0/9**	6914522

Anschlussbelegung
Pin Configuration

(F015)	**(F097)**		
			

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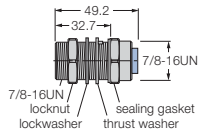
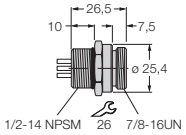
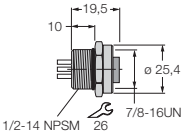
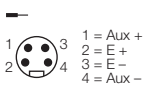
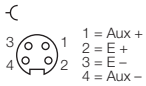
Durchführungen/Flansche für Versorgungskabel, Typ 43
Feed-through Recept./Flanged connect. for Power cables, Type 43

Industrielle Automation

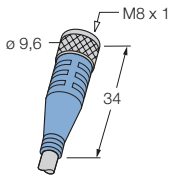
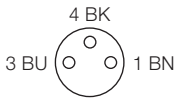
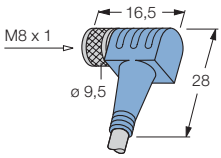
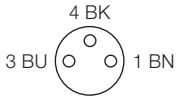
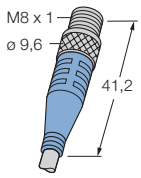
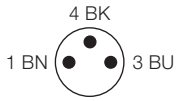
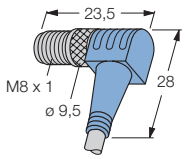
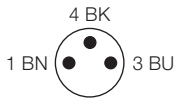
Abmessung Dimensions [mm]	Anwendung Application	Verbindungs-technik Connection Fig. (Fxxx)	Typenbezeichnung Type	Ident-Nr. Ident-no.
	7/8“-Durchführung, Stecker, Kupplung, Lochmaß 22,5 mm, Nennstrom: 9 A 7/8" feed-through connection, male, female, hole diameter 22.5 mm, Rated current: 9 A	1 x 7/8" (F015) 1 x 7/8" (F097)	**RSF-RKF-40/22**	6915014
	Lötbarer 7/8“-Flanschstecker, Nennstrom: 9 A Solderable male 7/8" flange connector, Rated current: 9 A	1 x 7/8" (F015)	**RSFL46**	6914836
	Lötbare 7/8“-Flanschkupplung Nennstrom: 9 A Solderable female 7/8" flange connector, Rated current: 9 A	1 x 7/8" (F097)	**RKFL46**	6915086

Anschlussbelegung
Pin Configuration

(F015)	(F097)		
			

A4

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

Abmessungen/Bauform Dimensions/Housing style [mm]		Anschluss Pin configuration	Leitung/Cable Querschnitt Cross section [mm²]	Adernaufbau Conductor construction [mm]	Länge Length [m]	Qualität Quality	Farbe Colour	Durchmesser Diameter [mm]
	**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
	**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

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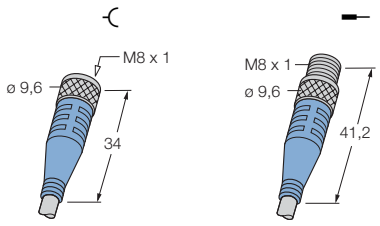
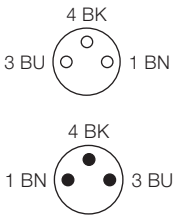
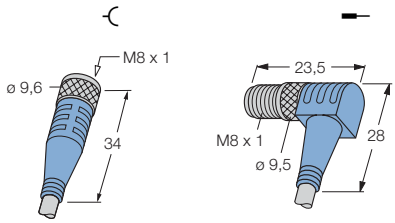
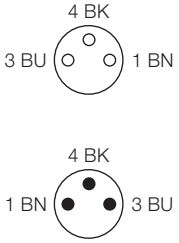
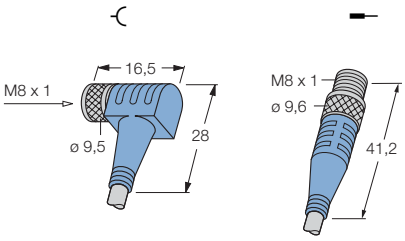
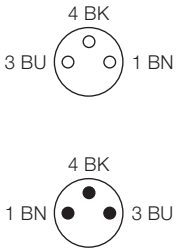
Typenbezeichnung Type	Ident-Nr. Ident no.	Nennstrom Rated current [A]	Nenn-spannung Rated voltage [V]	Werkstoff/Material Überwurfmutter Material Coupling nut	Umgebungstemperatur Temperature range [°C] Stecker Connector	 Leitung Cable	Schutzart Degree of protection	LED U_B	 ⌐¬
SKP3-2/S90	8007332	4	max. 60	CuZn-Ni	-30…+90	-40…+80	IP67		
SKP3-5/S90	8007336	4	max. 60	CuZn-Ni	-30…+90	-40…+80	IP67		
SKP3-10/S90	8007340	4	max. 60	CuZn-Ni	-30…+90	-40…+80	IP67		
SWKP3-2/S90	8007368	4	max. 60	CuZn-Ni	-30…+90	-40…+80	IP67		
SWKP3-5/S90	8007372	4	max. 60	CuZn-Ni	-30…+90	-40…+80	IP67		
SWKP3-10/S90	8007376	4	max. 60	CuZn-Ni	-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		

A5

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

Abmessungen/Bauform Dimensions/Housing style [mm]			Anschluss Pin configuration	Leitung/Cable Querschnitt Cross section [mm²]	Adernaufbau Conductor construction [mm]	Länge Length [m]	Qualität Quality	Farbe Colour	Durchmesser Diameter [mm]
	**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

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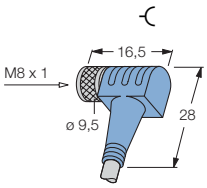
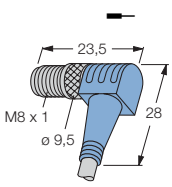
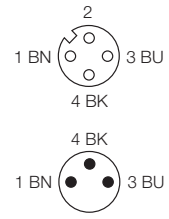
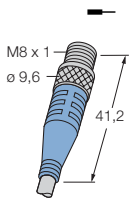
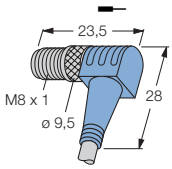
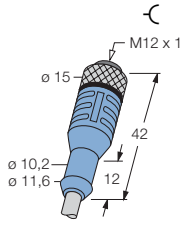
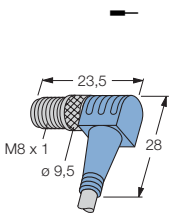
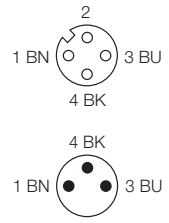
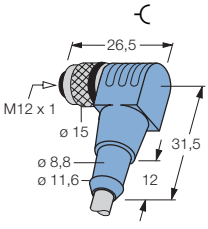
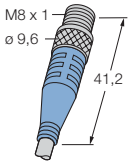
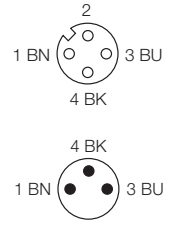
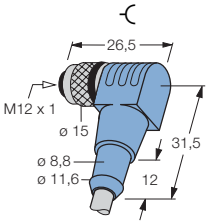
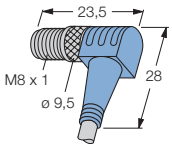
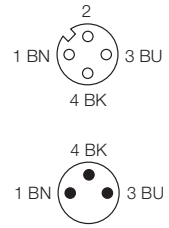
Typenbezeichnung Type	Ident-Nr. Ident no.	Nennstrom Rated current [A]	Nenn-spannung Rated voltage [V]	Werkstoff/Material Überwurfmutter Material Coupling nut	Umgebungstemperatur Temperature range [°C] Stecker Connector	 Leitung Cable	Schutzart Degree of protection	LED U_B	 ⌐¬
SKP3-1-SSP3/S90	8008683	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 (M8 x 1)
Connector Systems for Sensors and Actuators (M8 x 1)

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

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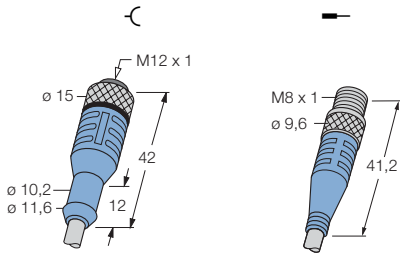
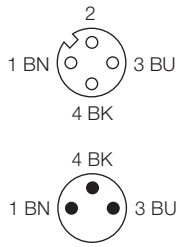
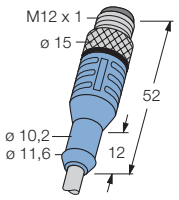
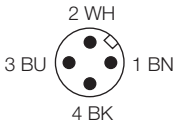
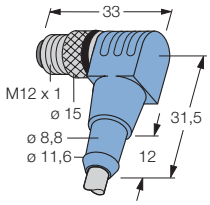
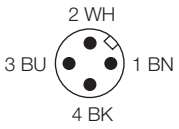
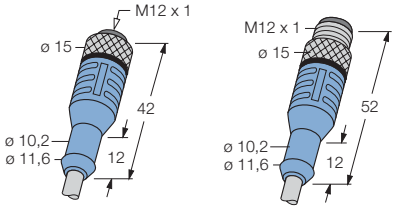
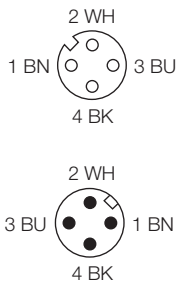
Typenbezeichnung Type	Ident-Nr. Ident no.	Nennstrom Rated current [A]	Nenn-spannung Rated voltage [VAC/VDC]	Werkstoff/Material Überwurfmutter Material Coupling nut	Umgebungstemperatur Temperature range [°C] Stecker Connector	 Leitung Cable	Schutzart Degree of protection	LED U_B	 ⌐¬
SWKP3-1-SWSP3/S90	8015455	4	60/75	CuZn-Ni	-40…+80	-25…+80	IP67		
SWKP3-2-SWSP3/S90	8015458	4	30/36	CuZn-Ni	-40…+80	-25…+80	IP67		
SWKP3-5-SWSP3/S90	8015461	4	60/75	CuZn-Ni	-40…+80	-25…+80	IP67		
SSP4-2/S90	8007362	4	max. 30	CuZn-Ni	-30…+90	-40…+80	IP67		
SSP4-5/S90	8007364	4	max. 30	CuZn-Ni	-30…+90	-40…+80	IP67		
SSP4-10/S90	8007366	4	max. 30	CuZn-Ni	-30…+90	-40…+80	IP67		
SWSP4-2/S90	8007398	4	max. 30	CuZn-Ni	-30…+90	-40…+80	IP67		
SWSP4-5/S90	8007400	4	max. 30	CuZn-Ni	-30…+90	-40…+80	IP67		
SWSP4-10/S90	8007402	4	max. 30	CuZn-Ni	-30…+90	-40…+80	IP67		
WAK3-1-SWSP3/S90	8015463	4	60/75	CuZn-Ni	-40…+80	-25…+80	IP67		
WAK3-2-SWSP3/S90	8015464	4	30/36	CuZn-Ni	-40…+80	-25…+80	IP67		
WAK3-5-SWSP3/S90	8015465	4	60/75	CuZn-Ni	-40…+80	-25…+80	IP67		
WWAK3-1-SSP3/S90	8012996	4	60/75	CuZn-Ni	-40…+80	-25…+80	IP67		
WWAK3-2-SSP3/S90	8015476	4	30/36	CuZn-Ni	-40…+80	-25…+80	IP67		
WWAK3-5-SSP3/S90	8015477	4	60/75	CuZn-Ni	-40…+80	-25…+80	IP67		
WWAK3-1-SWSP3/S90	8015471	4	60/75	CuZn-Ni	-40…+80	-25…+80	IP67		
WWAK3-2-SWSP3/S90	8015472	4	60/75	CuZn-Ni	-40…+80	-25…+80	IP67		
WWAK3-5-SWSP3/S90	8015473	4	60/75	CuZn-Ni	-40…+80	-25…+80	IP67		

Steckverbinder-Systeme für Sensoren und Aktuatoren (M12 x 1 auf M8 x 1/M12 x 1/Ende offen)
Connector Systems for Sensors and Actuators (M12 x 1 to 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]	Länge Length [m]	Qualität Quality	Farbe Colour	Durchmesser Diameter [mm]
	**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**		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
	**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

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Typenbezeichnung Type	Ident-Nr. Ident no.	Nennstrom Rated current [A]	Nenn-spannung Rated voltage [V]	Werkstoff/Material Überwurfmutter Material Coupling nut	Umgebungstemperatur Temperature range [°C] Stecker Connector	 Leitung Cable	Schutzart Degree of protection	LED U_B	 ⌐¬
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		
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		
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		

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 [mm]	Anschluss Pin configuration	Leitung/Cable Querschnitt Cross section [mm²]	Adernaufbau Conductor construction [mm]	Länge Length [m]	Qualität Quality	Farbe Colour	Durchmesser Diameter [mm]	Halogenfrei Halogen free	
M12 x 1	2 WH, 3 BU, 1 BN, 5 shield, 4 BK	5 x 0,34	43 x 0,1	2	PUR	GY	5,2	•	
		5 x 0,34	43 x 0,1	5	PUR	GY	5,2	•	
M12 x 1- M12 x 1	2 WH, 3 BU, 1 BN, 5 shield, 4 BK	5 x 0,34	43 x 0,1	1	PUR	GY	5,2	•	
		5 x 0,34	43 x 0,1	2	PUR	GY	5,2	•	
		5 x 0,34	43 x 0,1	5	PUR	GY	5,2	•	
	2 WH, 1 BN, 3 BU, 5 shield, 4 BK								

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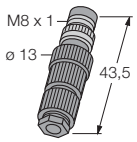
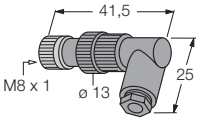
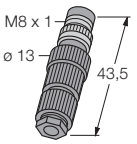
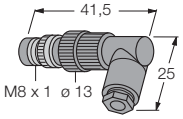
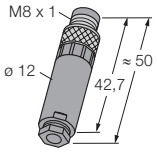
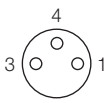
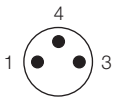
Typenbezeichnung Type	Ident-Nr. Ident no.	Nennstrom Rated current [A]	Nenn-spannung Rated voltage [VAC/VDC]	Werkstoff/Material Überwurfmutter Material Coupling nut	Umgebungstemperatur Temperature range [°C] Stecker Connector	 Leitung Cable	Schutzart Degree of protection	LED U_B	 ⌐¬
WAS4.5-2/S57	8016985	4	30/36		-40…+80	-40…+90	IP67		
WAS4.5-5/S57	8016986	4	30/36		-40…+80	-40…+90	IP67		
WAS4.5-1-WAK4.5/S57	8016987	4	30/36	CuZn-Ni	-40…+80	-40…+90	IP67		
WAS4.5-2-WAK4.5/S57	8016988	4	30/36	CuZn-Ni	-40…+80	-40…+90	IP67		
WAS4.5-5-WAK4.5/S57	8016989	4	30/36	CuZn-Ni	-40…+80	-40…+90	IP67		

A5

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

Abmessungen/Bauform Dimensions/Housing style [mm]		Leiteranzahl Number of conductors	Anschluss-technik[1] Connection technology[1] [m]	Werkstoffe/Materials Kontaktträger Contact carrier	Überwurfmutter Coupling nut	Griffteil Grip
	**M8 x 1**	3	E	PA	GD-Zn-Ni	PA
		4	E	PA	GD-Zn-Ni	PA
		4	L	PA	GD-Zn-Ni	PA
	**M8 x 1**	3	E	PA	GD-Zn-Ni	PA
		4	E	PA	GD-Zn-Ni	PA
		4	L	PA	GD-Zn-Ni	PA
	**M8 x 1**	3	E	PA	GD-Zn-Ni	PA
		4	E	PA	GD-Zn-Ni	PA
		3	L	PA	GD-Zn-Ni	PA
		4	L	PA	GD-Zn-Ni	PA
	**M8 x 1**	3	E	PA	GD-Zn-Ni	PA
		4	E	PA	GD-Zn-Ni	PA
		3	L	PA	GD-Zn-Ni	PA
		4	L	PA	GD-Zn-Ni	PA
	**M8 x 1**	3	S	PA	GD-Zn-Ni	PA

Anschlussbelegung
Pin Configuration

(C015)	(C016)	(C017)	(C018)
			

[1] E = Eindringtechnik/pin penetration technology; L = Löttechnik/soldering technology; S = Schraubtechnik/screw technology

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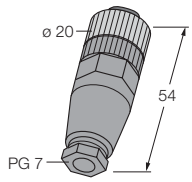
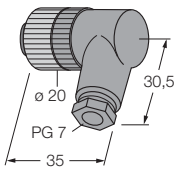
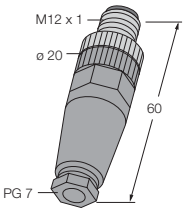
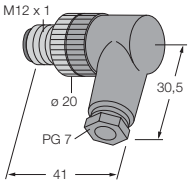
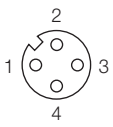
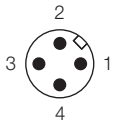
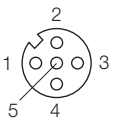
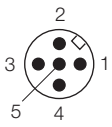
Typenbezeichnung Type	Ident-Nr. Ident no.	Nennstrom Rated current [A]	Nenn-spannung Rated voltage [VAC/VDC]	Anschluss Connection	max. Kabel-querschnitt max. cable diameter [mm²]	Klemm-bereich clamping range [mm]	Umgebungstemperatur/ Temperature range [°C] Stecker Connector	Leitung Cable	Schutzart Degree of protection
H5131-0	6902700	4	60/60	(C015)	0,25	4...5	-40…+80	-25…+80	IP67
H5141-0	6902720	4	60/60	(C016)	0,25	4...5	-40…+80	-25…+80	IP67
B5141-0	6904915	4	60/60	(C016)	0,25	4...5	-40…+80	-25…+80	IP67
H5231-0	6902800	4	60/60	(C015)	0,25	4...5	-40…+80	-25…+80	IP67
H5241-0	6902820	4	60/60	(C016)	0,25	4...5	-40…+80	-25…+80	IP67
B5241-0	6904815	4	60/60	(C016)	0,25	4...5	-40…+80	-25…+80	IP67
HS5131-0	6902710	4	60/60	(C017)	0,34	4...5	-40…+80	-25…+80	IP67
HS5141-0	6902730	4	60/60	(C018)	0,25	4...5	-40…+80	-25…+80	IP67
BS5131-0	6901010	4	60/60	(C017)	0,34	4...5	-40…+80	-25…+80	IP67
BS5141-0	6901011	4	60/60	(C018)	0,25	4...5	-40…+80	-25…+80	IP67
HS5231-0	6902810	4	60/60	(C017)	0,34	4...5	-40…+80	-25…+80	IP67
HS5241-0	6902830	4	60/60	(C018)	0,25	4...5	-40…+80	-25…+80	IP67
BS5231-0	6901110	4	60/60	(C017)	0,34	4...5	-40…+80	-25…+80	IP67
BS5241-0	6901111	4	60/60	(C018)	0,25	4...5	-40…+80	-25…+80	IP67
SSPC 3K	8004831	4	60/75	(C018)	0,5	3...5	-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	Anschluss-technik[1] Connection technology[1]	Werkstoffe/Materials Kontaktträger Contact carrier	Überwurfmutter Coupling nut	Griffteil Grip
	**M12 x 1**	4	S	PBT	CuZn-Ni	PBT
	⊰	5	S	PBT	CuZn-Ni	PBT
	**M12 x 1**	4	S	PBT	CuZn-Ni	PBT
	⊰	5	S	PBT	CuZn-Ni	PBT
	**M12 x 1**	4	S	PBT	CuZn-Ni	PBT
	▬	5	S	PBT	CuZn-Ni	PBT
	**M12 x 1**	4	S	PBT	CuZn-Ni	PBT
	▬	5	S	PBT	CuZn-Ni	PBT

Anschlussbelegung
Pin Configuration

(C011)	(C012)	(C020)	(C021)
⊰	▬	⊰	▬
			

[1] S = Schraubtechnik/screw technology

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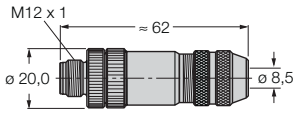
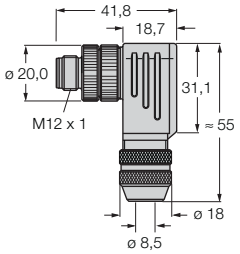
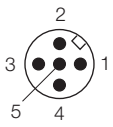
Typenbezeichnung Type	Ident-Nr. Ident no.	Nennstrom Rated current [A]	Nenn-spannung Rated voltage [VAC/VDC]	Anschluss Connection	max. Kabel-querschnitt max. cable diameter [mm²]	Klemm-bereich clamping range [mm]	Umgebungstemperatur/ Temperature range [°C] Stecker Connector	Leitung Cable	Schutzart Degree of protection
H8141-0	6902500	4	125/150	(C011)	0,75	3...6,5	-40…+80	-25…+80	IP67
B8151-0	6904601	4	30/36	(C020)	0,75	3...6,5	-40…+80	-25…+80	IP67
H8241-0	6902600	4	125/150	(C011)	0,75	3...6,5	-40…+80	-25…+80	IP67
B8251-0	6904602	4	30/36	(C020)	0,75	3...6,5	-40…+80	-25…+80	IP67
HS8141-0	6902510	4	125/150	(C012)	0,75	3...6,5	-40…+80	-25…+80	IP67
BS8151-0	6904611	4	30/36	(C021)	0,75	3...6,5	-40…+80	-25…+80	IP67
HS8241-0	6902610	4	125/150	(C012)	0,75	3...6,5	-40…+80	-25…+80	IP67
BS8251-0	6904612	4	30/36	(C021)	0,75	3...6,5	-40…+80	-25…+80	IP67

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

Abmessungen/Bauform Dimensions/Housing style [mm]		Leiteranzahl Number of conductors	Anschluss-technik[1] Connection technology[1]	Werkstoffe/Materials Kontaktträger Contact carrier	Überwurfmutter Coupling nut	Griffteil Grip	
	**M12 x 1**	5	S	PBT	CuZn-Ni	PBT	
	**M12 x 1**	5	S	PBT	CuZn-Ni	PBT	

Anschlussbelegung
Pin Configuration

(C021)		
		

[1] S = Schraubtechnik/screw technology

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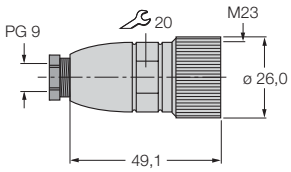
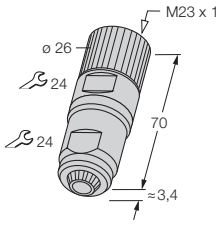
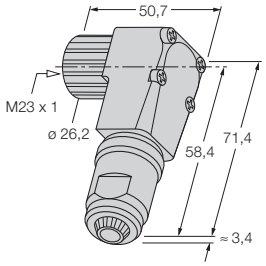
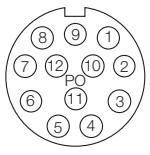
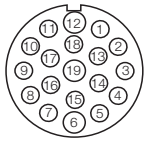
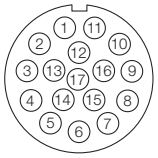
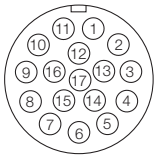
Typenbezeichnung Type	Ident-Nr. Ident no.	Nennstrom Rated current [A]	Nenn-spannung Rated voltage [VAC/VDC]	Anschluss Connection	max. Kabel-querschnitt max. cable diameter [mm²]	Klemm-bereich clamping range [mm]	Umgebungstemperatur/ Temperature range [°C] Stecker Connector	Leitung Cable	Schutzart Degree of protection
CMBS8151-0	6930161	4	125/150	(C021)	0,75	6...8	-40…+85	-25…+80	IP67
CMBS8251-0	6930216	4	125/150	(C021)	0,75	6...8	-40…+85	-25…+80	IP67

A5

Konfektionierbare Steckverbinder-Systeme (M23 x 1)
Field wireable Connector Systems (M23 x 1)

Abmessungen/Bauform Dimensions/Housing style [mm]		Leiteranzahl Number of conductors	Anschluss-technik[1] Connection technology[1]	Werkstoffe/Materials Kontaktträger Contact carrier	Überwurfmutter Coupling nut	Griffteil Grip
	**M23 x 1**	12	L	PBT	CuZn-Ni	CuZn-Ni
		19	L	PBT	CuZn-Ni	CuZn-Ni
	**M23 x 1**	17	CP	PBT	CuZn-Ni	CuZn-Ni
		17	CP	PBT	CuZn-Ni	CuZn-Ni
	**M23 x 1**	17	CP	PBT	CuZn-Ni	CuZn-Ni
		17	CP	PBT	CuZn-Ni	CuZn-Ni

Anschlussbelegung
Pin Configuration

(C028)	(C073)	(C074)	(C075)
			

[1] L = Löttechnik/Soldering technology, CP = Crimptechnik/Crimp technology

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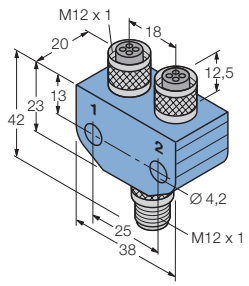
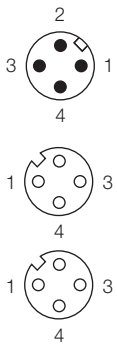
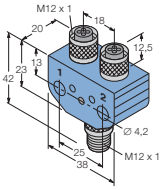
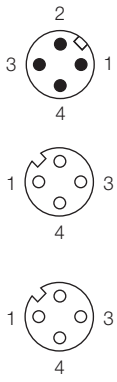
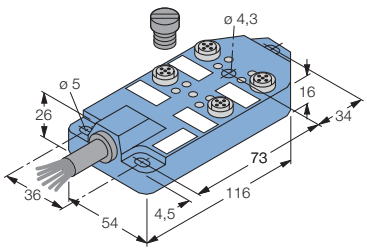
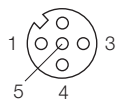
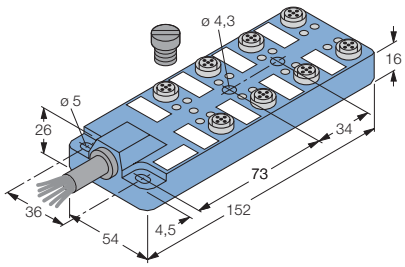
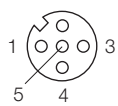
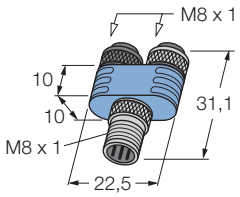
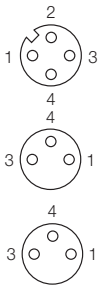
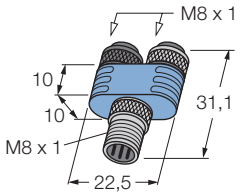
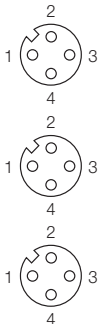
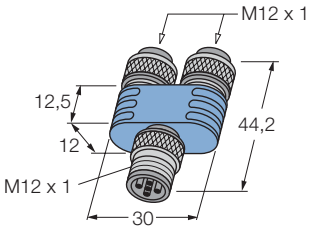
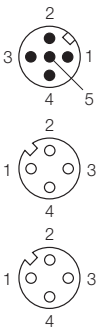
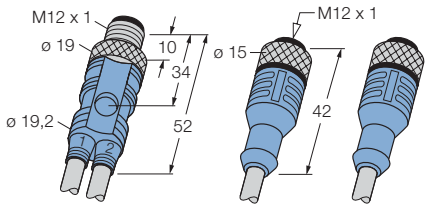
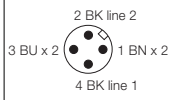
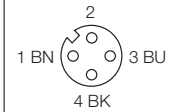
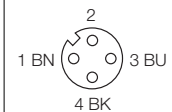
Typenbezeichnung Type	Ident-Nr. Ident no.	Nennstrom Rated current [A]	Nenn-spannung Rated voltage [VAC]	Anschluss Connection	max. Kabel-querschnitt max. cable diameter [mm²]	Klemm-bereich clamping range [mm]	Umgebungstemperatur/ Temperature range [°C] Stecker Connector	Leitung Cable	Schutzart Degree of protection
FW-M23ST12Q-G-LT-ME-XX-10	6604070	7,5	125	(C028)	1	4...8	-30...+115	-25…+80	IP67
FW-M23ST19Q-G-LT-ME-XX-10	6604208	4/8	125	(C073)	1	4...8	-30...+115	-25…+80	IP67
FW-M23ST17Q-G-CP-ME-SH-14.5	6604067	9	125	(C074)	1	...14,5	-40...+125	-25…+80	IP67
FW-M23KU17Q-G-CP-ME-SH-14.5	6604069	9	125	(C075)	1	...14,5	-40...+125	-25…+80	IP67
FW-M23ST17Q-W-CP-ME-SH-14.5	6604068	9	125	(C074)	1	...14,5	-40...+125	-25…+80	IP67
FW-M23KU17Q-W-CP-ME-SH-14.5	6604066	9	125	(C075)	1	...14,5	-40...+125	-25…+80	IP67

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

[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] Verteiler Junction	 Leitung Cable	LEDs
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
MB-4M12-5.4P2-2/S366	8024425	M12 x 1	2 / Σ 9	10…30	-30…+ 90	-30…+ 90	5
MB-8M12-5.4P2-5/S366	8024420	M12 x 1	2 / Σ 9	10…30	-30…+ 90	-30…+ 90	9

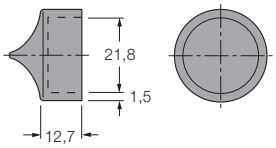
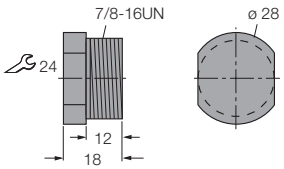
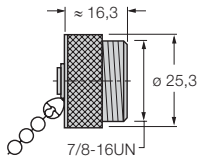
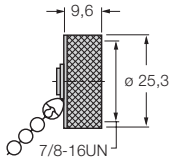
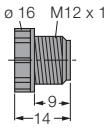
Abmessungen/Bauform Dimensions/Housing style [mm]		Anschluss Pin configuration	Leitung/Cable Querschnitt Cross section [mm²]	Adernaufbau Conductor construction [mm]	Länge Length [mm]	Qualität Quality	Farbe Colour	Durchmesser Diameter [mm]	
	**M8 x 1 –** **M8 x 1**								
	**M8 x 1 –** **M8 x 1**								
	**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

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] Verteiler Junction	 Leitung Cable	LED U_B	 ⌐¬
MB-SSP4-2SKP3[2])	8025693	M8 x 1	2	max. 32	-30…+ 80			
MB-SSP4-2SKP4-S2133[2])	8030478	M8 x 1	2	max. 32	-30…+ 80			
MB-SSP4-2SKP4P3-S2133[2])	8030477	M8 x 1	2	max. 32	-30…+ 80		1	2
FSM5-2FKM5.4/S55[1])	8018720	M12 x 1	4	max. 60	-30…+ 90			
FSM4-2WAK3-0,3/0,3/P00	8008065	M12 x 1	4	max. 250	-30…+ 90	-40…+ 80		
FSM4-2WAK3-0,6/0,6/P00	8008070	M12 x 1	4	max. 250	-30…+ 90	-40…+ 80		
FSM4-2WAK3-1/1/P00	8009560	M12 x 1	4	max. 250	-30…+ 90	-40…+ 80		
FSM4-2WAK3-0,3/0,3/S90	8008066	M12 x 1	4	max. 250	-30…+ 90	-40…+ 80		
FSM4-2WAK3-0,6/0,6/S90	8008071	M12 x 1	4	max. 250	-30…+ 90	-40…+ 80		
FSM4-2WAK3-1/1/S90	8009561	M12 x 1	4	max. 250	-30…+ 90	-40…+ 80		
FSM4-2WAK3-0,3/0,3/XOR	8008067	M12 x 1	4	max. 250	-30…+ 90	-40…+ 80		
FSM4-2WAK3-0,6/0,6/XOR	8008072	M12 x 1	4	max. 250	-30…+ 90	-40…+ 80		
FSM4-2WAK3-1/1/XOR	8009562	M12 x 1	4	max. 250	-30…+ 90	-40…+ 80		

[2]) Gleichzeitiger Anschluss von zwei konfektionierbaren Steckverbindern (Typ HS...) nicht möglich/
Simultaneous connection of two field wireable connectors (type HS...) not possible

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

Abmessungen Dimensions	Anwendung Application	Material und Farbe Material and colour	Typenbezeichnung Type	Ident-Nr. Ident no.
	Staubkappe für 7/8“-Einbauflansche, 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, 150 mm Kette Screw cap for 7/8“ female connectors, no internal wiring, chain 150 mm	nickelbeschichtetes Messing, schwarz nickel-plated brass black	**RSM-CC**	6914829
	Verschraubkappe für 7/8“-Stecker, keine interne Verdrahtung, 150 mm Kette Screw cap for 7/8“ male connectors, no internal wiring, chain 150 mm	nickelbeschichtetes Messing, schwarz nickel-plated brass black	**RKM-CC**	6914831
	Verschraubkappe für M12 x 1- Kupplungen, keine interne Verdrahtung Screw cap for M12 x 1 female connectors, no internal wiring	Polyurethan schwarz Polyurethane black	**VZ 3**	800004

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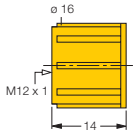
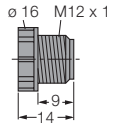
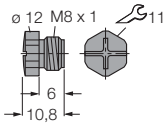
Verschlusskappen M12 x 1
M12 x 1 blanking plugs

Abmessungen Dimensions	Anwendung Application	Material und Farbe Material and colour	Typenbezeichnung Type	Ident-Nr. Ident no.
	Verschraubkappen für M12 x 1-Stecker (100 Stück pro Beutel) Screw cap for M12 x 1 male connectors (100 pieces per bag)	Polyutethan gelb Polyutethane yellow	**VK-M12**	6999025
	Verschraubkappen für M12 x 1-Kupplungen (100 Stück pro Beutel) Screw cap for M12 x 1 female connectors (100 pieces per bag)	Polyutethan schwarz Polyutethane black	**VS-M12**	6999003

Verschlusskappen M8 x 1
M8 x 1 blanking plugs

Abmessungen Dimensions	Anwendung Application	Material und Farbe Material and colour	Typenbezeichnung Type	Ident-Nr. Ident no.
	Verschraubkappen für M8 x 1-Kupplungen Screw cap for M8 x 1 female connectors	Nylon schwarz Nylon black	**ISK-M8**	8015075

A5

BL67 Type index

BL67 Type index

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- ❑ Kapazitive Sensoren
- ❑ Ultraschallsensoren
- ❑ Strömungssensoren
- ❑ Drucksensoren
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- ❑ Rotary position sensors
- ❑ Connectors and junctions
- ❑ CD-ROM Sensors

Interfacetechnik
- ❑ Interfacetechnik im Aufbaugehäuse
- ❑ Interfacetechnik auf 19"-Karte
- ❑ Miniaturrelais, Industrierelais, Zeitwürfel, Sockel
- ❑ Zeit- und Überwachungsrelais
- ❑ Ex-Schutz – Grundlagen für die Praxis (Übersichtsposter)

Interface technology
- ❑ Devices in modular housings
- ❑ Devices on 19" card
- ❑ Miniature relays, industrial relays, time cubes, sockets
- ❑ Programmable relays and timers
- ❑ Explosion protection – basics for practical application (overview poster)

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
- ❑ Feldbussystem *sensoplex*®*2/2 Ex*

Fieldbus technology
- ❑ Compact fieldbus components PROFIBUS-DP/DeviceNet™/ Ethernet
- ❑ *piconet*® – modular fieldbus I/O-system in IP67
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