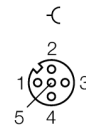
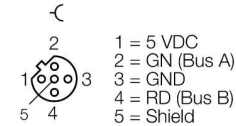


- Cable max. 50 m between interface and read/write head
- 3 decimal rotary coding switches for the adjustment of the Profibus address
- Maximum transmission rate to the fieldbus 12 Mbps
- Two males M12 x 1, 5-pin reverse-keyed, for fieldbus connection
- One male 7/8", 5-pin, for power supply
- LEDs for display of supply voltage, group and bus errors as well as status and diagnostics
- Connection of up to 8 read/write heads via BL ident M12 extension cables
- Mixed operation of HF and UHF read/write heads

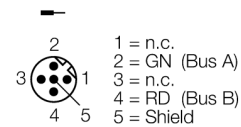
Wiring diagram



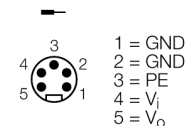
PROFIBUS-DP OUT



Profibus DP IN



Power supply



Type	TI-BL67-DPV1-8
Ident-No.	1545031
Number of channels	8
Dimensions (W x L x H)	204 x 145 x 77.5 mm
Supply voltage	24 VDC
max. system supply current $I_{mb(SV)}$	1.5, A
max. sensor supply I_{sens}	4 A electronically limited current supply electronically limited current supply
Max. load current I_o	10 A
Admissible range	18...30 VDC
Fieldbus transmission rate	9.6 kbps ... 12 Mbps
Fieldbus addressing range	1...125
Fieldbus addressing	3 decimally coded rotary switches
Service interface	RS232 interface (PS/2 socket)
Fieldbus connection technology	2 x M12, 5-pole, inversely coded
Voltage supply connection	5-pole male 7/8" connector
Fieldbus termination	external
Transmission rate	115.2 kbps
Cable length	50 m
Electrical isolation	isolation of electronics and field level via opto-couplers
Connection technology	M12
Simultaneity factor	1
Sensor supply	0.5 A per channel, short-circuit proof

Operating temperature	-40...+70 °C
Temperature derating	
> 55 °C Circulating air (Ventilation)	no limitation
> 55 °C Steady ambient air	I _{sens} < 3A, I _{mb} < 1A
Storage temperature	-40 ... +85 °C
Relative humidity	5 to 95% (internal), Level RH-2, no condensation (at 45 °C storage)
Vibration test	acc. to EN 61131
Extended vibration resistance	
Extended vibration resistance	VN 02-00 and higher
- up to 5 g (at 10 to 150 Hz)	For mounting on DIN rail no drilling according to EN 60715, with end bracket
	For mounting on base plate or machinery
- up to 20 g (at 10 to 150 Hz)	Therefore every second module has to be mounted with two screws each.
Shock test	acc. to IEC 68-2-27
Drop and topple	acc. to IEC 68-2-31 and free fall to IEC 68-2-32
Electro-magnetic compatibility	acc. to EN 61131-2
Protection class	IP67

Functional principle

The pin resp. signal assignment results from the combination with an electronic module. You find the pin configuration and the wiring diagrams on the data sheet of the corresponding electronic module.

BL67 base modules are connected to the right of the gateway, using two screws for each module. A DIN rail is not required. This way, a compact and stable unit is built. The unit can now be mounted on a DIN rail or directly on the machine.

The field devices are connected to the base modules which are available with different connection technology (M8, M12, M23 and 7/8").

Note

Further technical data like temperature range are determined by the electronic modules and can be found on the data sheets.

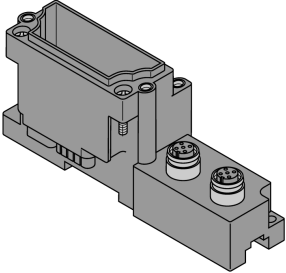
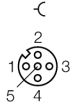
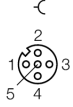
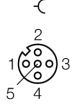
BL67 electronic modules are plugged on the purely passive base modules which in turn are connected to the field devices. The separation of connection level and electronics simplifies maintenance considerably. Flexibility is enhanced because the user can choose between base modules with different connection technologies.

The electronic modules are completely independent of the higher level fieldbus through the use of gateways.

BL67 gateways are the head component of a BL67 station. They are designed to connect the modular fieldbus nodes to the higher level fieldbus (PROFIBUS-DP, DeviceNet™, CANopen, Ethernet Modbus TCP, PROFINET IO or EtherNet/IP™).

All BL67 electronic modules communicate over the internal module bus, the data of which is transferred to the fieldbus via the gateway. All I/O modules can thus be configured independently of the bus system.

Compatible base modules

Dimension drawing	Type	Pin configuration
	BL67-B-2M12 6827186 2 x M12, 5-pole, female, a-coded	<p>Pin configuration</p> <p>Connectors .../S2500</p>  <ul style="list-style-type: none">1 = BN (+)2 = BK (Data)3 = BU (GND)4 = WH (Data)5 = shield <p>Connectors .../S2501</p>  <ul style="list-style-type: none">1 = BN (+)2 = WH (Data)3 = BU (GND)4 = BK (Data)5 = shield <p>Connectors .../S2503</p>  <ul style="list-style-type: none">1 = RD (+)2 = BU (Data)3 = BK (-)4 = WH (Data)5 = shield

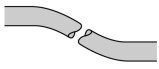
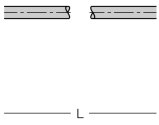
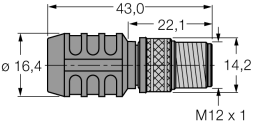
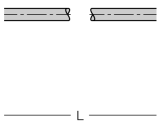
LED display

LED	color	status	description
D		OFF	Error report or diagnostics active.
	RED	ON	Failure of MODBUS communication Check if more than 2 adjacent electronic modules are pulled. Relevant modules are located between gateway and this module.
	RED	FLASHING (0.5 Hz)	Upcoming module diagnostics
RW0 / RW1		OFF	No tag, diagnostics disabled
	GREEN	ON	Tag available
	GREEN	FLASHING (2 Hz)	Data exchange with tag enabled
	RED	ON	Read/write head fault
	RED	FLASHING (2 Hz)	Short-circuit in the supply line of read/write head

I/O Data Mapping

INPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Channel 0	n								
	n+1								
Channel 1	n+2								
	n+3								
OUTPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Channel 0	m								
	m+1								
Channel 1	m+2								
	m+3								

Accessories

Type code	Ident-No.	Description	Dimension drawing
RKSW-D9T451-2M	6915769	Profibus cable, M12 straight male connector to SUB-D, 2 m	
RSSW-RKSW451-6M	6914121	Profibus cable, M12 straight male connector to M12 straight female connector, 6 m	
RSS4.5-PDP-TR	6601590	Passive PROFIBUS-DP terminating resistor, M12 connector	
RKM52-6M	6914145	Power supply cable, 7/8 straight with open cable end, 6 m	
RSM-2RKM50	6914950	T-piece for power supply, 7/8", 5-pole, 9A nominal current	