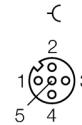
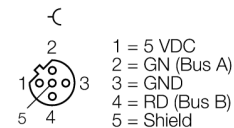


- A special software (function module) for integration in PLC systems is not required.
- User data, 8 byte per read/write cycle
- Cable max. 50 m between interface and read/write head
- 3 decimal rotary coding switches for the adjustment of the Profibus address
- Maximum transmission rate to the fieldbus 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

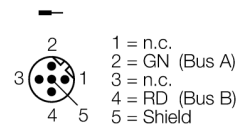
Wiring diagram



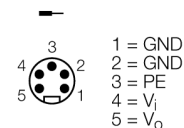
PROFIBUS-DP OUT



PROFIBUS-DP



Power Supply



Type code	TI-BL67-DPV1-S-8
Ident no.	1545109
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 address range	1...125
Fieldbus addressing	3 decimally coded rotary switches
Service interface	RS232 interface (PS/2 socket)
Fieldbus connection technology	2 x M12, 5-pin, reverse-keyed
Voltage supply connection	5-pin 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
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	Isens < 3A, Imb < 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
IP Rating	IP67

Functional principle

The BL ident® system can be installed in many different ways.

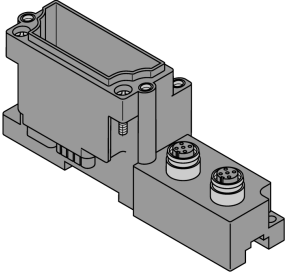
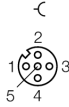
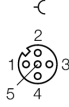
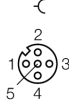
Various fieldbus standards, such as PROFIBUS-DP, EtherNet/IP, Ethernet Modbus TCP, EtherCAT, DeviceNet, CANopen and PROFINET IO allow flexible integration.

BL ident® simple electronic modules (BL20-2RFID-S, BL67-2RFID-S) can be integrated in existing control or host systems without function block, since standard input/output process data is used for communication.

Programmable gateways with peripheral pre-processing function relieve the control system and fieldbus level.

Preassembled sets (2, 4, 6 or 8-port), easily mounted, available for all fieldbus networks.

Compatible base modules

Design	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


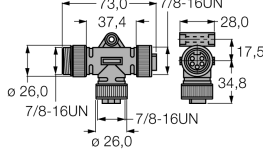
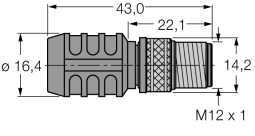
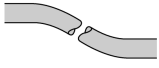
LED display

LED	Color	Status	Meaning
D		OFF	No error message or diagnostics active.
	RED	ON	Failure of module bus 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, no active diagnostics
	GREEN	ON	Tag available
	GREEN	FLASHING (2 Hz)	Data exchange with tag enabled
	RED	ON	Read/write head error
	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	DONE	BUSY	ERROR	XCVR CON	XCVR ON	TP	TFR	Reserved
	n+1	Error Code							
	n+2	Error Code 1							
	n+3	Reserved							
	n+4	READ DATA (8 Byte)							
	n+5								
	...								
	n+10								
n+11									
Channel 1	n+12	DONE	BUSY	ERROR	XCVR CON	XCVR ON	TP	TFR	Reserved
	n+13	Error Code							
	n+14	Error Code 1							
	n+15	Reserved							
	n+16	READ DATA (8 Byte)							
	n+17								
	...								
	n+22								
n+23									
OUTPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Channel 0	m	XCVR	NEXT	TAG ID	READ	WRITE	TAG INFO	XCVR INFO	RESET
	m+1	Reserved					Byte Count 2	Byte Count 1	Byte Count 0
	m+2	Address high byte							
	m+3	Address low byte							
	m+4	WRITE DATA (8 Byte)							
	m+5								
	...								
	m+10								
m+11									
Channel 1	m+12	XCVR	NEXT	TAG ID	READ	WRITE	TAG INFO	XCVR INFO	RESET
	m+13	Reserved					Byte Count 2	Byte Count 1	Byte Count 0
	m+14	Address high byte							
	m+15	Address low byte							
	m+16	WRITE DATA (8 Byte)							
	m+17								
	...								
	m+22								
m+23									

Accessories

Type code	Ident no.	Description	Design
RKM52-6M	6914145	Power supply cable, 7/8 straight with open cable end, 6 m	
RSM-2RKM50	6914950	CANopen/DeviceNet™ / Power supply T piece, 1 x 7/8" male, 2 x 7/8" female, 5-pin, 0° / 180° / 0°, 9 A nominal current	
RSS4.5-PDP-TR	6601590	PROFIBUS-DP terminating resistor, 1 x M12 male, 5-pin, B-coded, passive	
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	