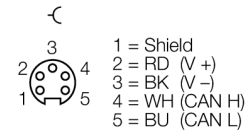
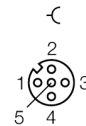


- A special software (function module) for integration in PLC systems is not required.
- Cable max. 50 m between interface and read/write head
- 3 decimal rotary coding switches to adjust the bus address
- Maximum transmission rate to the fieldbus 120/250/500 kbps
- Two males 7/8", 5-pin, for fieldbus connection
- 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



DeviceNet™ IN



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.

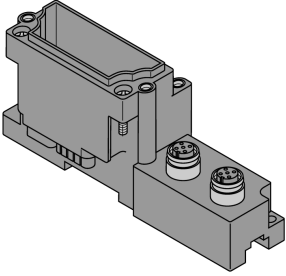
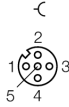
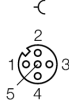
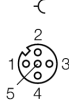
Programmable gateways with peripheral pre-processing function relieve the control system and fieldbus level.

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

Type	TI-BL67-DN-S-8
Ident-No.	1545117
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	8 A
Admissible range	11...26 VDC
Fieldbus transmission rate	125...500 kbps
Fieldbus addressing range	0...63
Fieldbus addressing	2 decimally coded rotary switches
Service interface	RS232 interface (PS/2 socket)
Fieldbus connection technology	2 x 7/8, 5-pole
Voltage supply connection	via DeviceNet cable
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
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
- up to 20 g (at 10 to 150 Hz)	For mounting on base plate or machinery 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

Compatible base modules

Dimension drawing	Type	Pin configuration
	BL67-B-2M12 6827186 2 x M12, 5-pole, female, a-coded	<p data-bbox="1054 418 1262 448">Pin configuration</p> <p data-bbox="1054 454 1262 483">Connectors .../S2500</p> <p data-bbox="1078 490 1262 577"><ul style="list-style-type: none">1 = BN (+)2 = BK (Data)3 = BU (GND)4 = WH (Data)5 = shield</p> <p data-bbox="1054 618 1262 647">Connectors .../S2501</p> <p data-bbox="1078 654 1262 770"><ul style="list-style-type: none">1 = BN (+)2 = WH (Data)3 = BU (GND)4 = BK (Data)5 = shield</p> <p data-bbox="1054 810 1262 840">Connectors .../S2503</p> <p data-bbox="1078 846 1262 963"><ul style="list-style-type: none">1 = RD (+)2 = BU (Data)3 = BK (-)4 = WH (Data)5 = shield</p>

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	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									