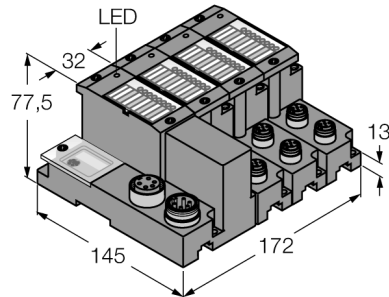


Set for Simple I/O Communication via DeviceNet™ in IP67

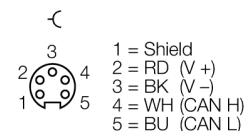
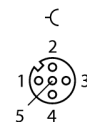
TI-BL67-DN-S-6



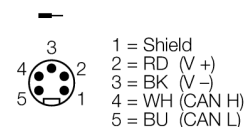
Type designation	TI-BL67-DN-S-6
Ident no.	1545116
Number of channels	6
Dimensions (W x L x H)	172 x 145 x 77.5 mm
Supply voltage	24 VDC
max. system supply current I_{mb} (5V)	1.5, A
Max. sensor supply I_{sens}	4 A electronically limited current supply electronically limited current supply
max. load current I_o	8 A
Admissible range	11...26 VDC
Fieldbus transmission rate	125/250/500 kbps
Fieldbus address 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-pin
Voltage supply connection	From DeviceNet cable
Fieldbus termination	external
Transmission rate	115.2 kbps
Electrical isolation	isolation of electronics and field level via opto-couplers
Output connectivity	M12
Sensor supply	0.5 A per channel, short-circuit proof
Relative humidity	5...95 % (internal), level RH-2, no condensation (when stored at 45 °C)
Vibration test	Acc. to EN 61131
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 up 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 60068-2-27
Drop and topple	acc. to IEC 68-2-31 and free fall to IEC 68-2-32
Electromagnetic compatibility	Acc. to EN 61131-2
Protection class	IP67
Included in delivery	1 x end plate BL67

- 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 6 read/write heads via BL ident M12 extension cables
- Mixed operation of HF and UHF read/write heads

Wiring Diagram



DeviceNet™ IN

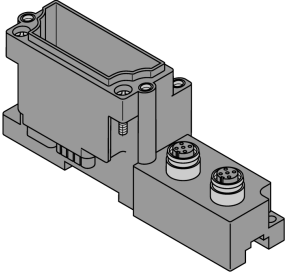
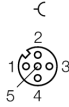
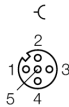
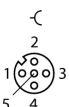


Functional principle

BL ident can be integrated into your plant structure 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 into 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.

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Compatible base modules

Dimension drawing 	Type BL67-B-2M12 6827186 2 x M12, 5-pole, female, a-coded	Pin configuration .../S2500 Connectors  1 = BN (+) 2 = BK (Data) 3 = BU (GND) 4 = WH (Data) 5 = shield .../S2501 Connectors  1 = BN (+) 2 = WH (Data) 3 = BU (GND) 4 = BK (Data) 5 = shield Connectors .../S2503  1 = RD (+) 2 = BU (Data) 3 = BK (GND) 4 = WH (Data) 5 = shield
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Set for Simple I/O Communication via DeviceNet™ in IP67

TI-BL67-DN-S-6

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

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I/O Data Mapping

INPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
INPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Channel 0	0	DONE	BUSY	ERROR	XCVR CON	XCVR ON	TP	TFR	Reserved
	1	Error Code							
	2	Error Code 1							
	3	Reserved							
	4	READ DATA (8 Byte)							
	5								
	...								
	10								
	11								
Channel 1	12	DONE	BUSY	ERROR	XCVR CON	XCVR ON	TP	TFR	Reserved
	13	Error Code							
	14	Error Code 1							
	15	Reserved							
	16	READ DATA (8 Byte)							
	17								
	...								
	22								
	23								
OUTPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Channel 0	0	XCVR	NEXT	TAG ID	READ	WRITE	TAG INFO	XCVR INFO	RESET
	1	Reserved					Byte Count 2	Byte Count 1	Byte Count 0
	2	Address high byte							
	3	Address low byte							
	4	WRITE DATA (8 Byte)							
	5								
	...								
	10								
	11								
Channel 1	12	XCVR	NEXT	TAG ID	READ	WRITE	TAG INFO	XCVR INFO	RESET
	13	Reserved					Byte Count 2	Byte Count 1	Byte Count 0
	14	Address high byte							
	15	Address low byte							
	16	WRITE DATA (8 Byte)							
	17								
	...								
	22								
	23								