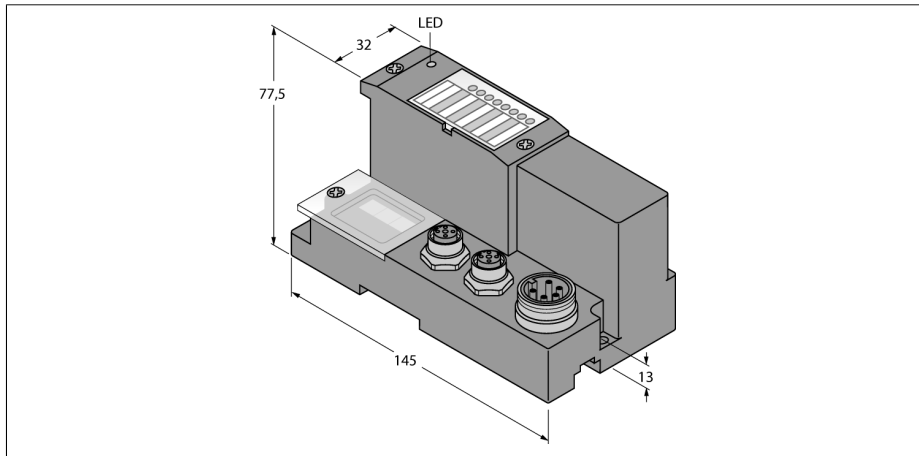


**Gateway for BL67 I/O system
multiprotocol interface for Ethernet
BL67-GW-EN**



- 3 decimal rotary coding switches
- Protection class IP67
- LEDs for display of supply voltage, group and bus errors
- Multiprotocol interface between the BL67 system and the Ethernet protocols Modbus TCP and EtherNet/IP™ and PROFINET (from VN 03-00)
- PROFINET supports fast start-up (FSU)
- EtherNet/IP™ supports QuickConnect (QC)
- Integrated switch 10/100 Mbps
- Two males M12, 4-pin, D-coded, for fieldbus connection (from VN 03-00)
- One male 7/8", 5-pin, for power supply

Type	BL67-GW-EN
Ident-No.	6827214
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Supply voltage	24 VDC
Admissible range	18...30 VDC
Rated current from module bus	≤ 600 mA
max. sensor supply I _{sens}	4 A electronically limited current supply
Max. load current I _L	10 A
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System data	
Max. number of I/O modules	32
Transmission rate	10/100 Mbps; Full/Half Duplex; Auto Negotiation; Auto Crossing
Connection technology Ethernet	female M12 x 2, 4-pin, D-coded
Protocol detection	automatic
Web server	in preparation
Service interface	Mini USB, Ethernet
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Modbus TCP	
Addressing	Static IP, BOOTP, DHCP
Supported function codes	FC1, FC2, FC3, FC4, FC5, FC6, FC15, FC16, FC23
Simultaneous CIP connections	6
Input Data Size	max. 1024 register
Input register start address	0
Output Data Size	max. 1024 register
Output register start address	2048 (0x0800 hex)
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EtherNet/IP™	
Addressing	acc. to EtherNet/IP™ specification
Quick Connect (QC)	< 150 ms
Device Level Ring (DLR)	supported
Simultaneous CIP connections	6
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PROFINET	(available Q1/2013)
Addressing	DCP
Conformance Class	B (RT)
MinCycleTime	1 ms
Fast Start-Up (FSU)	< 150 ms
Diagnostics	acc. to PROFINET Alarm Handling
Topology detection	supported
Automatic addressing	supported

Functional principle

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.

Gateway for BL67 I/O system multiprotocol interface for Ethernet BL67-GW-EN

TURCK

Industrial
Automation

Dimensions (W x L x H)	74x145x77.5mm
Approvals	CE, cULus
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	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
DIN rail mounting	yes, Attention: Offset
Direct mounting	Two mounting holes, 6 mm Ø

**Gateway for BL67 I/O system
multiprotocol interface for Ethernet
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Pin configuration and supply concept

	<p>Ethernet ports Starting from version VN 03-00, the gateway features two D-coded M12 Ethernet ports with integrated switch. The ports are used as interfaces for configuration and fieldbus communication. The gateway supports the EtherNet/IP™ and Modbus TCP protocols</p>	<p>Pin assignment</p> <ul style="list-style-type: none"> 1 = YE (TX+) 2 = WH (RX+) 3 = OG (TX-) 4 = BU (RX-)
	<p>Power supply Double-tuned power supply of the BL67 system.</p> <p>System power supply V_i V_i is for the internal system supply at the backplane bus ($V_{MB(SV)}$) and for the 4A short-circuit limited sensor supply (V_{sens}).</p> <p>Load voltage V_o V_o for output supply, limited to max. 10A.</p>	<p>Pin assignment</p> <ul style="list-style-type: none"> 1 = GND 2 = GND 3 = PE 4 = V_i 5 = V_o