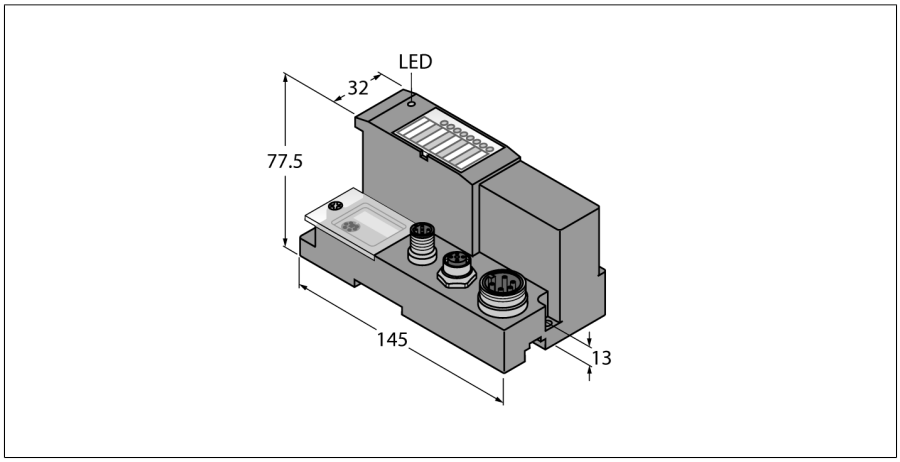
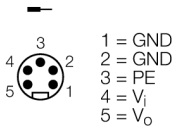
Gateway for BL67 I/O system
Interface for PROFINET
BL67-GW-EN-PN



- 3 decimal rotary coding switches
- Protection class IP67
- LEDs for display of supply voltage, group and bus errors
- Interface between BL67 system and PROFINET IO
- 10/100 Mbps
- Female M12, 4-pin, D-coded for fieldbus connection
- Male 7/8“, 5-pin, for power supply



Type	BL67-GW-EN-PN
ID	6827228

Supply voltage	24 VDC
Admissible range	18…30 VDC
Nominal current from module bus	≤ 600 mA
max. system supply current $I_{mb\ (5V)}$	1.3A
Max. sensor supply I_{sens}	4 A electronically limited current supply
max. load current I_o	10 A
Voltage supply connection	7/8″, 5-pin

Fieldbus transmission rate	10/100 Mbps
Fieldbus addressing	PROFINET conform, rotary switch, BOOTP, DHCP, IO-ASSISTANT
Fieldbus connection technology	M12 × 1 female connector, 4-pin, D-coded

Service interface	RS232 interface (PS/2 socket)

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, EtherCAT or EtherNet/IP).

All BL67 electronic modules communicate via 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.

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Dimensions (W x L x H)	74 x 145 x 77.5 mm
Approvals	CE, cULus
Ambient 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…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
DIN rail mounting	yes, Attention: Offset
Direct mounting	Two mounting holes, Ø 6 mm

Included in delivery	1 x end plate BL67

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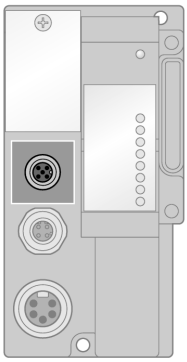
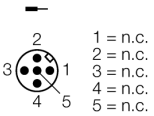
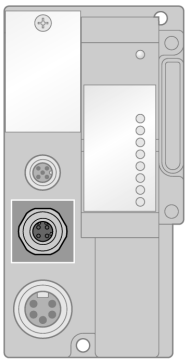
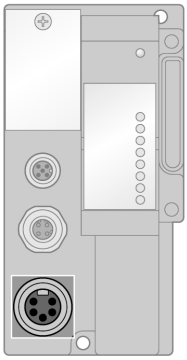
Pin configuration and supply concept

	**Not Assigned**	Pin Assignment  1 = n.c. 2 = n.c. 3 = n.c. 4 = n.c. 5 = n.c.
	**PROFINET** The M12-D coded Ethernet port is used as interface for configuration and fieldbus communication. The gateway can be operated as a slave at PLCs with PROFINET Master	Pin Assignment  1 = YE (TX +) 2 = WH (RX +) 3 = OG (TX –) 4 = BU (RX –)
	**Power Supply** Double-tuned power supply of the BL67 system. System power supply V_i V_i is for the internal system supply at the backplane bus($V_{MB(5V)}$) and for the 4A short-circuit limited sensor supply (V_{sens}). Load voltage V_o V_o for output supply, limited to max.10A.	Pin Assignment  1 = GND 2 = GND 3 = PE 4 = V_i 5 = V_O

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