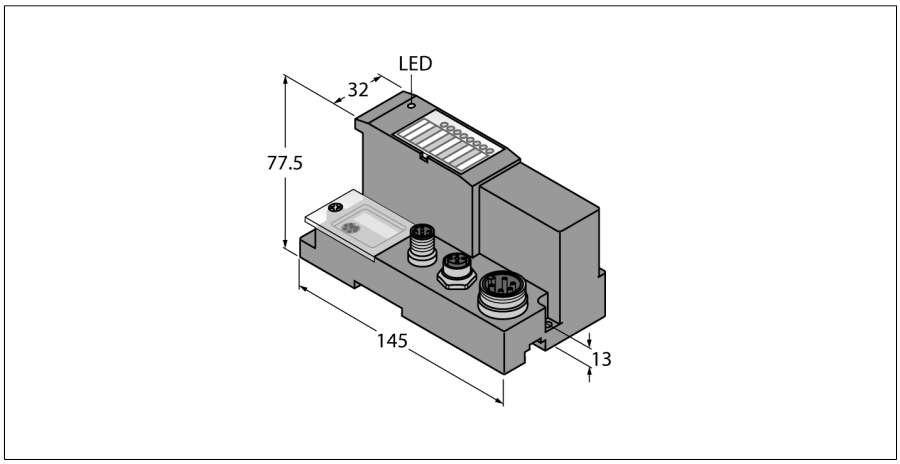
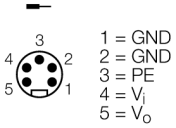
Gateway for BL67 I/O system interface for PROFINET IO
BL67-GW-EN-PN



- **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 designation	BL67-GW-EN-PN
Ident no.	6827228
Supply voltage	24 VDC
Admissible range	18…30 VDC
Nominal current from module bus	≤ 600 mA
max. system supply current $I_{mb\ (5V)}$	1.3 A
Max. sensor supply I_{sens}	4 A electronically limited current supply
max. load current I_o	10 A
Voltage supply connection	5-pin male 7/8" connector
Fieldbus transmission rate	10/100 Mbps
Fieldbus addressing	PROFINET conform, rotary switch, BOOTP, DHCP, IO-ASSISTANT
Fieldbus connection technology	Female connector, M12 x 1, 4-pin, D-coded
Service Interface	RS232 interface (PS/2 socket)
Dimensions (W x L x H)	74 x 145 x 77.5mm
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 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 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

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.

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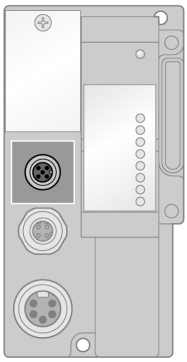
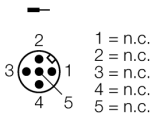
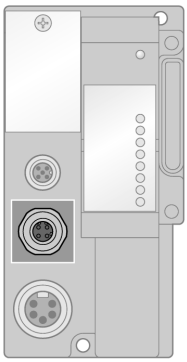
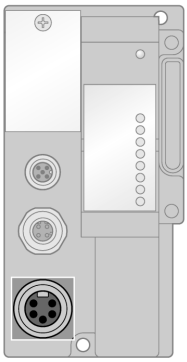
Industrial Automation

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($V_{MB(5V_i)}$) 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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