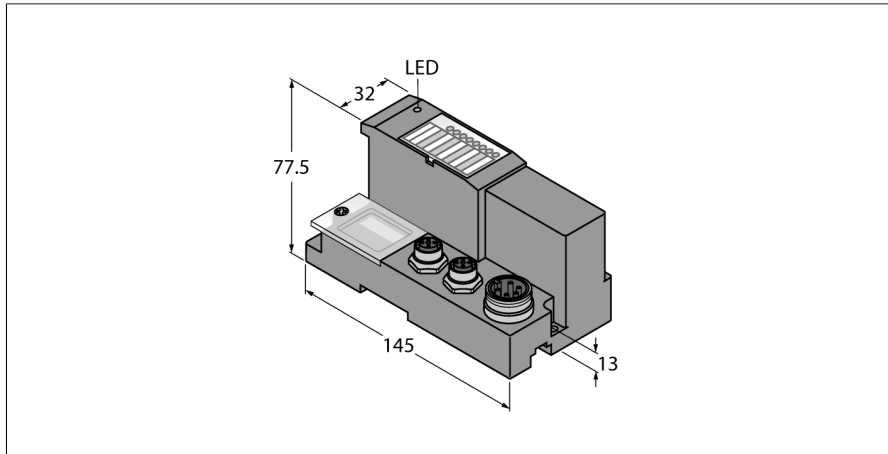


Gateway for BL67 I/O system

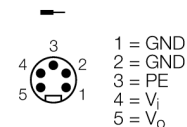
Interface for EtherCAT

BL67-GW-EC-20



Type	BL67-GW-EC-20
ID	100042217
Supply voltage	24 VDC
Admissible range	18...30 VDC
Nominal current from module bus	≤ 600 mA
max. system supply current $I_{mb (GV)}$	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
System data	
Max. number of I/O modules	32
Connection technology Ethernet	2 × M12 × 1 female connector, 4-pin, D-coded
Service interface	Mini USB, Ethernet
EtherCAT	
Address allocation	automatic
MinCycleTime	125 μs
Diagnostics	CoE Emergencies, DiagnosisHistory
CAN over EtherCAT	acc. to modular device profile (ETG.5001.1)

- 3 decimal rotary coding switches
- Protection class IP67
- LEDs for display of supply voltage, group and bus errors
- Gateway between the BL67 system and EtherCAT
- 10/100 Mbps, Auto MDIX
- Two 4-pin D-coded M12 female connectors for fieldbus connection (from VN 03-00)
- One 5-pin 7/8" male connector for power supply



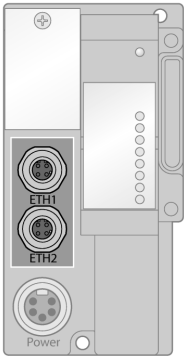
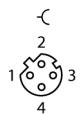
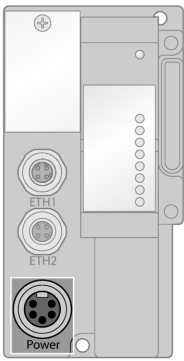
Functional principle

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.

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

Pin assignment and supply concept

	Ethernet Ports The ports are used as interfaces for configuration and fieldbus communication. The gateway supports EtherCAT.	Pin Assignment  1 = YE (TX +) 2 = WH (RX +) 3 = OG (TX -) 4 = BU (RX -)
	Power Supply The BL67 system is supplied with power via two circuits. System supply V_i V_i is for the internal system supply at the backplane bus ($V_{MB(V_i)}$), and for the sensor supply (V_{sens}) with a short-circuit current limit of 4 A. Load voltage V_o V_o is for supplying the outputs and is limited to max.10 A.	Pin Assignment  1 = GND 2 = GND 3 = PE 4 = V_i 5 = V_o