

## Gateway for BL67 I/O system Interface for EtherCAT BL67-GW-EC-20



Туре	BL67-GW-EC-20 100042217	
ID		
Supply voltage	24 VDC	
Admissible range	1830 VDC	
Nominal current from module bus	≤ 600 mA	
max. system supply current $I_{_{mb}(SV)}$	1.3A	
Max. sensor supply I <sub>sens</sub>	4 A electronically limited current supply	
max. load current I	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	lsens < 3A, Imb < 1A	
Storage temperature	-40+85 °C	
Relative humidity	595 % (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 $-\zeta$ $1 \stackrel{2}{\underset{4}{\circ}} 1 = YE (TX +)$ $3 \stackrel{2}{\underset{3}{\circ} = OG (TX -)}$ 4 = BU (RX -)
Power SupplyThe BL67 system is supplied with power via two circuits.System supply V.V. is for the internal system supply at the backplane bus ( $V_{MB(N)}$ ),and for the sensor supply ( $V_{sens}$ ) with a short-circuit current limit of 4 A.Load voltage V.V. is for supplying the outputs and is limited to max.10 A.	Pin assignment 3 1 = GND 4 $3$ 2 = GND 3 = PE $4$ $4$ $V_1$ $5$ = $V_0$