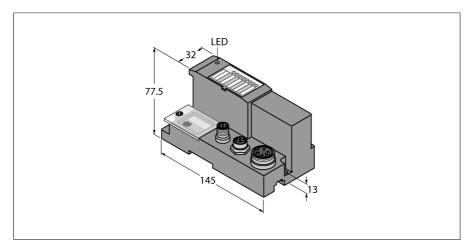


Gateway for BL67 I/O system Interface for MODBUS TCP (slave) with DeviceNet™ scanner BL67-GW-EN-DN



Type designation	BL67-GW-EN-DN
Ident-No.	6827313
Supply voltage	24 VDC
Admissible range	1830 VDC
Nominal current from module bus	≤ 600 mA
max. system supply current I _{mb (SV)}	1.3 A
Max. sensor supply I _{sens}	4 A electronically limited current supply
max. load current I	10 A
Voltage supply connection	5-pin male 7/8" connector
Fieldbus transmission rate	10/100 Mbps
Fieldbus addressing	rotary switch, BOOTP, DHCP, IO-ASSISTANT
Fieldbus connection technology	Female connector, M12 x 1, 4-pin, D-coded
Input process image	1024 register
Output process image	1024 register

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Input process image	1024 register
Output process image	1024 register
Service interface	RS232 interface (PS/2 socket)
Dimensions (W x L x H)	74 x 145 x 77.5mm
Approvals	CE
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
Charletant	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
Electromagnetic 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 $^{\text{TM}}$, CANopen, Ethernet Modbus TCP, PROFINET IO or EtherNet/IP $^{\text{TM}}$).

All BL67 electronic modules communicate over the internal module bus, the data of which is transferred to the fieldbus via the gateway. As a result, all I/O modules can be configured independently of the bus system.

DeviceNet™ subnet

This gateway features a fieldbus-slave interface and a DeviceNetTM scanner (master). The DeviceNetTM scanner enables the connection of DeviceNetTM slaves. The process data of the slaves are mapped to the process image of the BL67 system.

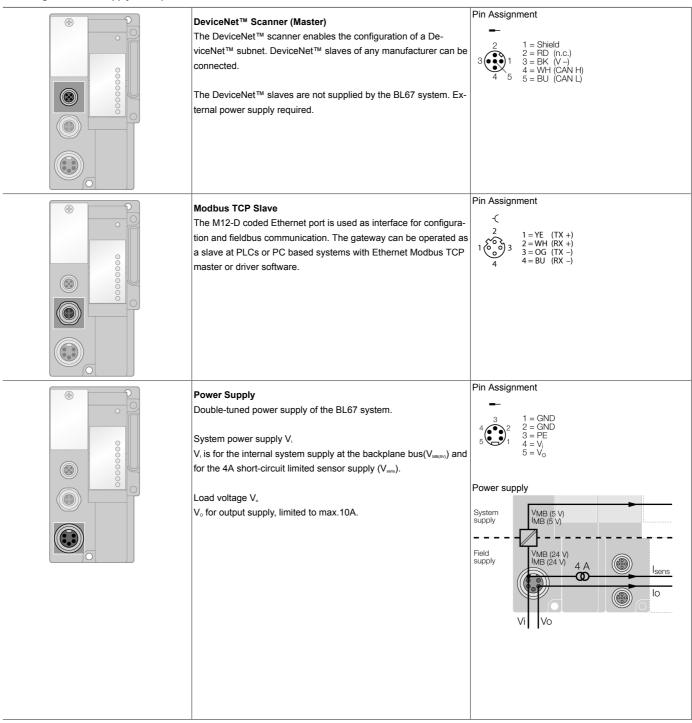
Included in delivery

1 x end plate BL67



Gateway for BL67 I/O system Interface for MODBUS TCP (slave) with DeviceNet™ scanner BL67-GW-EN-DN

Pin configuration and supply concept





Gateway for BL67 I/O system Interface for MODBUS TCP (slave) with DeviceNet™ scanner BL67-GW-EN-DN

LED functions

LED	Color	Status	Description
Ю		OFF	No power supply
	GREEN	ON	Station OK
	GREEN	FLASHING (1Hz)	Station in force mode of the I/O-ASSISTANT
	GREEN	FLASHING (4 Hz)	The max. admissible number of modules connected to the gateway
			is exceeded.
	RED	ON	Insufficient power supply
	RED	FLASHING (1Hz)	The current station configuration does not comply with the config-
			ured module list.
	RED	FLASHING (4 Hz)	No module bus communication.
	RED/GREEN	FLASHING (1Hz)	The current and configured module list do not match but the data
			exchange proceeds as normal.
GW		OFF	No power supply of the CPU.
	GREEN	ON	Firmware active, gateway ready
	GREEN	FLASHING (1Hz)	Firmware inactive.
GREEN RED	GREEN	FLASHING (4 Hz)	Firmware active, gateway hardware error.
	RED	ON	CPU not ready, Vcc too low. Causes of failure:
			- Too many modules at the gateway
			- Short circuit in one of the modules
			- Defective gateway
Vcc	GREEN	ON	CPU and module bus OK
		OFF	No supply of CPU or short-circuit of the module bus supply.
Vo	GREEN	ON	Supply of outputs OK
	GREEN	FLASHING (1Hz)	Undervoltage Vo; system running.
	GREEN	FLASHING (4 Hz)	Undervoltage Vo; system running.
		OFF	No power supply.
Vi	GREEN	ON	Sensor and system supply OK.
	GREEN	FLASHING (1Hz)	Undervoltage Vi; system running.
	GREEN	FLASHING (4 Hz)	Undervoltage Vi; system running.
	RED	ON	Short-circuit or overload at the sensor supply Vsens.
		OFF	No power supply.
DN		OFF	CAN error and/or sub-bus is offline.
	GREEN	ON	TheDeviceNet™ subnet is active, communication OK.
	GREEN	FLASHING	TheDeviceNet™ subnet is ready but not active.
	RED	ON	One DeviceNet™ MAC ID (station address) is assigned twice.
	RED	FLASHING	Empty DeviceNet™ slave station list or excess of admissible data
			volume. 512 byte I/O data for the slaves and 500 byte for the whole
			station.
	RED/GREEN	FLASHING	One or more of the configured slaves is/are not online.
LNK/ACT	GREEN	ON	Link established,100 Mbps
	GREEN	FLASHING	Ethernet traffic with 100 Mbps
	YELLOW	ON	Link established,10 Mbps
	YELLOW	FLASHING	Ethernet traffic with 10 Mbps
		OFF	no Ethernet link.
MS	GREEN	ON	One Modbus TCP client (master) has established an Ethernet con-
			nection to the gateway.
	GREEN	FLASHING	Gateway ready, Modbus TCP connection inactive.
	RED	ON	Gateway error
	RED	FLASHING	DHCP/BootP search for settings