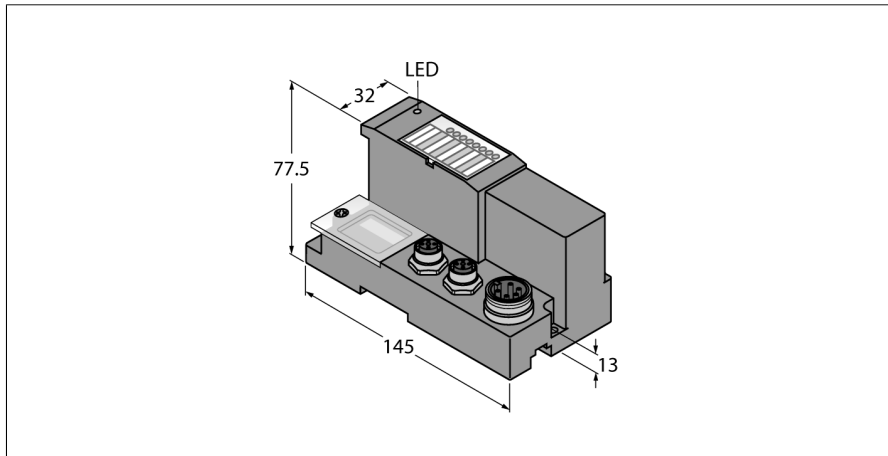


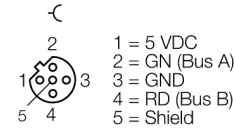
CODESYS 2 Programmable Gateway for the BL67 I/O System

Gateway for PROFIBUS-DP

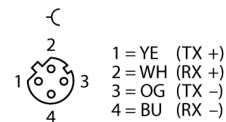
BL67-PG-DP



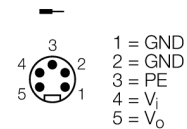
PROFIBUS-DP



Ethernet



Power Supply



Functional principle

The programmable BL67 gateways can be used as an independent PLC or as a member in a PLC network for fast signal preprocessing.

BL67 gateways are the head component of a BL67 station. The BL67 electronic modules communicate via the internal module bus with the gateway and can be configured independently of the fieldbus protocol.

Type designation	BL67-PG-DP
Ident-No.	6827240
Supply voltage	24 VDC
Admissible range	18...30 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_L	10 A
Voltage supply connection	5-pin male 7/8" connector
Fieldbus transmission rate	9.6 kbps ... 12 Mbps
Fieldbus addressing	Settings made via CODESYS software
Fieldbus address range	1...99
Fieldbus connection technology	1 × M12, 5-pin, reverse-keyed
Fieldbus termination	external
Input process image	244 byte
Output process image	244 byte
PLC data	
Programming	CODESYS 2
Released for CODESYS version	V 2.3.9.35
Programming languages	IEC 61131-3 (IL, LD, FBD, SFC, ST)
Application tasks	1
Number of POU's	1024
Programming interface	RS232 interface, Ethernet
Processor	RISC, 32 bit
Cycle time	< 1 ms for 1000 IL commands (without I/O cycle)
Program memory	512 kByte
Data memory	512 kByte
Input data	4 kByte
Output data	4 kByte
Non-volatile memory	16 kByte
Service interface	RS232 interface (PS/2 socket)

CODESYS 2 Programmable Gateway for the BL67 I/O System

Gateway for PROFIBUS-DP

BL67-PG-DP

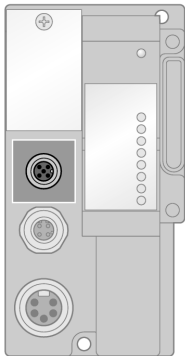
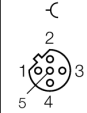
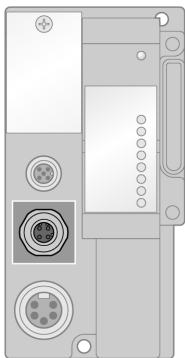
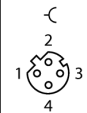
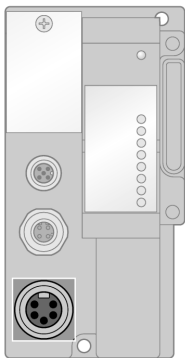
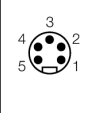
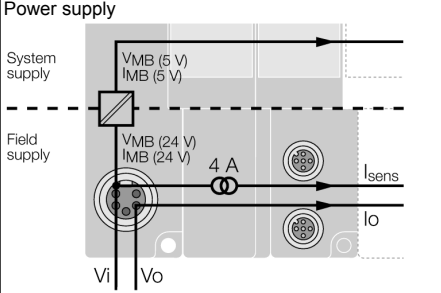
Dimensions (W x L x H)	74 x 145 x 77.5mm
Approvals	CE, cULus
Operating temperature	-25...+70 °C
Temperature derating	
> 55 °C Circulating air (Ventilation)	no limitation
> 55 °C Steady ambient air	Isens < 3A, Imb < 1A
Storage temperature	-40...+85 °C
Relative humidity	5 to 95 % (internal), Level RH-2, 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
Electromagnetic compatibility	acc. to EN 61131-2
Protection class	IP67
DIN rail mounting	yes, Attention: Offset
Direct mounting	Two mounting holes, 6 mm Ø
Included in delivery	1 x end plate BL67

CODESYS 2 Programmable Gateway for the BL67 I/O System

Gateway for PROFIBUS-DP

BL67-PG-DP

Pin configuration and supply concept

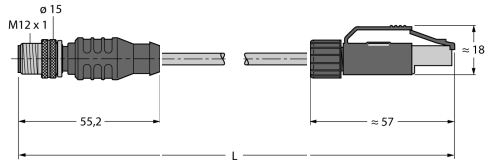
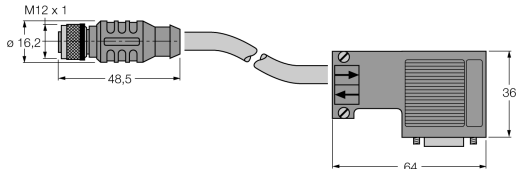
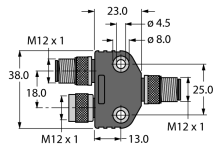
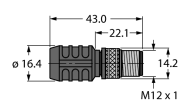
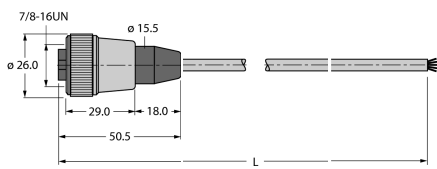
	PROFIBUS-DP Slave	Pin Assignment  1 = 5 VDC 2 = GN (Bus A) 3 = GND 4 = RD (Bus B) 5 = Shield
	Modbus TCP (Master)	Pin Assignment  1 = YE (TX +) 2 = WH (RX +) 3 = OG (TX -) 4 = BU (RX -)
	Power Supply Double-tuned power supply of the BL67 system. System power supply V_i V_i is for the internal system 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 Power supply 

CODESYS 2 Programmable Gateway for the BL67 I/O System

Gateway for PROFIBUS-DP

BL67-PG-DP

Accessories

Type code	Ident-No.	Description	Dimension drawing
RSSD-RJ45-441-2M/ S2174	6915781	Ethernet cable, M12 straight male connector to RJ45 male connector, 2 m	
RKSW-D9T451-2M	6915769	Profibus cable, M12 straight male connector to SUB-D, 2 m	
VB2-FSW-FKW-FSW-45	6996009	PROFIBUS-DP Y piece, M12, 5-pin, B-coded, shielded, 12 Mbps	
RSS4.5-PDP-TR	6601590	PROFIBUS-DP terminating resistor, 1 x M12 male, 5-pin, B-coded, passive	
RKM52-6M	6914145	Power supply cable, 7/8 straight with open cable end, 6 m	

CODESYS 2 Programmable Gateway for the BL67 I/O System

Gateway for PROFIBUS-DP

BL67-PG-DP

Accessories

Type code	Ident-No.	Description	Dimension drawing
RSM-2RKM50	6914950	Power supply T-splitter, 1 x 7/8" male, 2 x 7/8" female, 5-pin, ampacity: 9 A, Rated voltage: 250 V, Temperature: -40 °C ... +80 °C, wired in parallel	