Gateway for BL67 I/O system
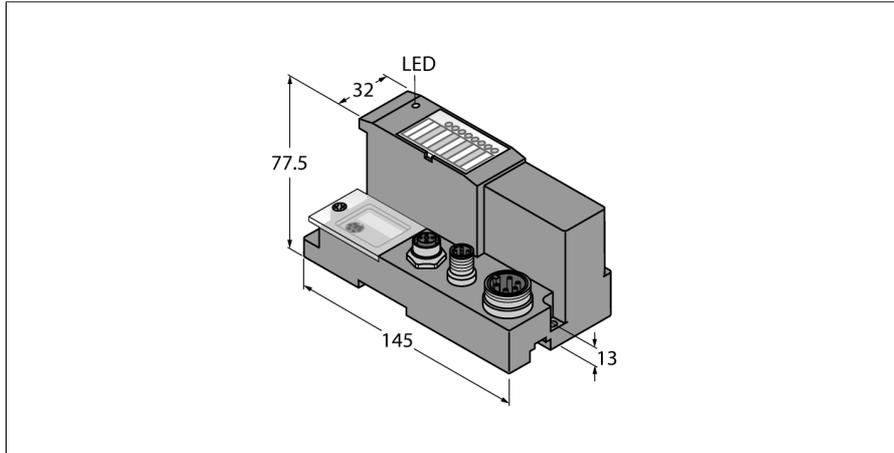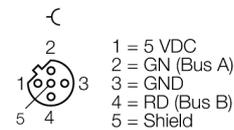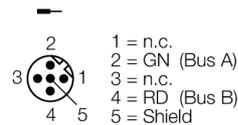# Interface for PROFIBUS-DP (DPV0/DPV1)
BL67-GW-DPV1

- **3 decimal rotary coding switches**
- **Protection class IP67**
- **LEDs for display of supply voltage, group and bus errors**
- **Interface between the BL67 system and PROFIBUS-DPV0/DPV1**
- **12 Mbps**
- **Two males M12 x 1, 5-pin, reverse-keyed, for fieldbus connection**
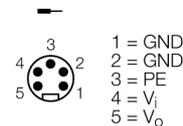- **One male 7/8", 5-pin, for power supply**

PROFIBUS-DP OUT

1 = 5 VDC
2 = GN (Bus A)
3 = GND
4 = RD (Bus B)
5 = Shield

PROFIBUS-DP

1 = n.c.
2 = GN (Bus A)
3 = n.c.
4 = RD (Bus B)
5 = Shield

Power Supply

1 = GND
2 = GND
3 = PE
4 = V_i
5 = V_o

Type code	BL67-GW-DPV1
Ident-No.	6827232
Ident-No (TUSA)	M6827232
Supply voltage	24 VDC
Admissible range	18…30 VDC
Nominal current from module bus	$\leq$ 650 mA
max. system supply current $I_{mb\,(5V)}$	1.5 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	9.6 kbps … 12 Mbps
Fieldbus addressing	3 decimally coded rotary switches
Fieldbus address range	1…125
Fieldbus connection technology	2 x M12, 5-pin, reverse-keyed
Fieldbus termination	external
Input process image	244 byte
Output process image	244 byte
Service interface	RS232 interface (PS/2 socket)
Dimensions (W x L x H)	74x145x77.5mm
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 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
IP Rating	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.

Industrial
Automation

Accessories

Type code	Ident-No.	Description	Design
RKM52-6M	6914145	Power supply cable, 7/8 straight with open cable end, 6 m	
RSM-2RKM50	6914950	CANopen/DeviceNet™ / Power supply T piece, 1 x 7/8" male, 2 x 7/8" female, 5-pin, 0° / 180° / 0°, 9 A nominal current	

Wiring accessories

Type code	Ident-No.	Description	Design
RSS4.5-PDP-TR	6601590	PROFIBUS-DP terminating resistor, 1 x M12 male, 5-pin, B-coded, passive	
RKSW-D9T451-2M	6915769	Profibus cable, M12 straight male connecter to SUB-D, 2 m	
RSSW-RKSW451-6M	6914121	Profibus cable, M12 straight male connecter to M12 straight female connector, 6 m	