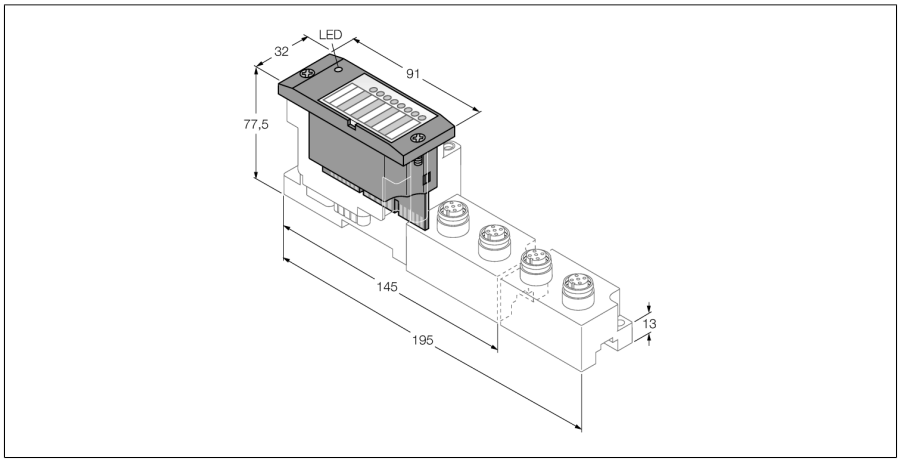
BL67 electronic module
Power feeding module with diagnostics function
BL67-PF-24VDC



- Independent of the fieldbus and connection technology used
- Protection class IP67
- LEDs indicating system status, field supply and diagnostic information
- Can be used to form potential groups
- Supplies field with 24 VDC nominal voltage

Functional principle

BL67 electronic modules are plugged on the purely passive base modules which in turn are connected to the field devices. The separation of connection level and electronics simplifies maintenance considerably. Flexibility is enhanced because the user can choose between base modules with different connection technologies.

The electronic modules are completely independent of the higher level fieldbus through the use of gateways.

Type	BL67-PF-24VDC
ID	6827182
Supply voltage	24 VDC
Nominal voltage V_i	24 VDC
Nominal voltage V_o	24 VDC
Admissible range	18…30 VDC
Nominal current from module bus	≤ 30 mA
Max. sensor supply I_{sens}	4 A electronically limited current supply
max. load current I_o	10 A
Output connectivity	7/8”
Number of diagnostic bits	3
Dimensions (W x L x H)	32 x 91 x 59 mm
Approvals	CE, cULus
Ambient temperature	-40…+70 °C
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
- 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
Tightening torque fixing screw	0.9…1.2 Nm
Tightening torque fixing screw	333 Nm

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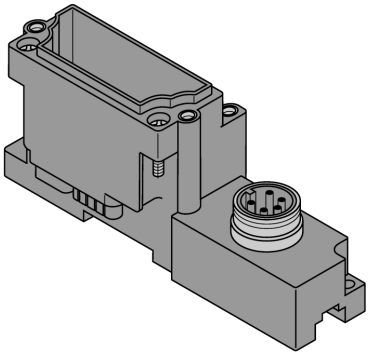
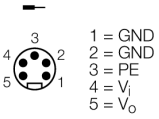
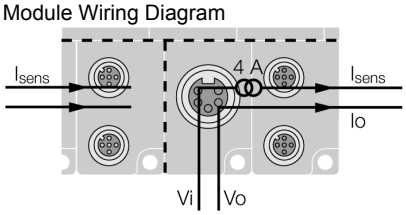
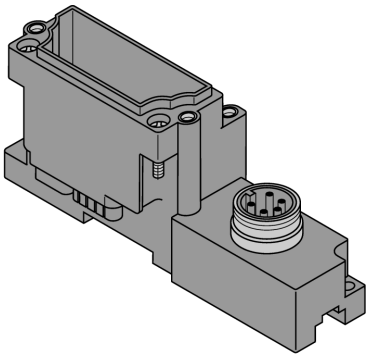
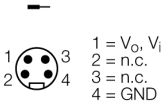
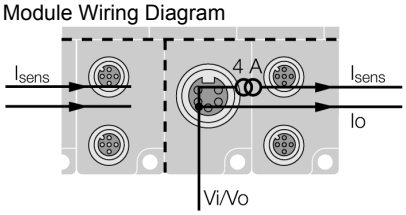
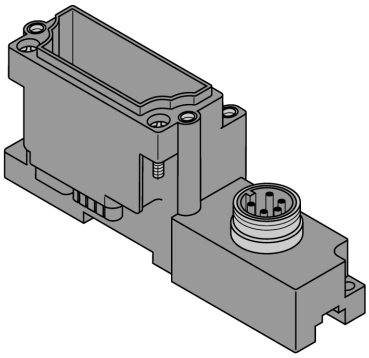
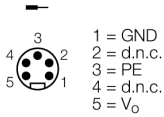
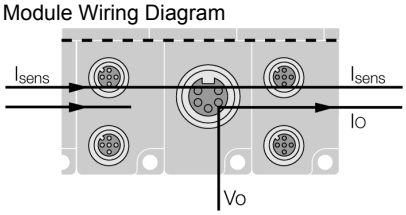
Compatible base modules

Dimension drawing	Type	Pin configuration
	**BL67-B-1RSM** 6827190 1 x 7/8", 5-pole, male **Comments** matching connection cable (for example): RKM52-6M Ident no. 6914145	 1 = GND 2 = GND 3 = PE 4 = V_i 5 = V_o Module Wiring Diagram 
	**BL67-B-1RSM-4** 6827201 1 x 7/8", 4-pole, male **Comments** Total current (Isens + Io) max. 10A	 1 = V_o, V_i 2 = n.c. 3 = n.c. 4 = GND Module Wiring Diagram 
	**BL67-B-1RSM-VO** 6827236 1 x 7/8", 5-pole, male **Comments** Matching power cable (for example): RKM52-6M Ident no. 6914145 Note: Only Vo (pin 1 and 5) supply, do not connect pin 2 and 4!	 1 = GND 2 = d.n.c. 3 = PE 4 = d.n.c. 5 = V_o Module Wiring Diagram 

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