

Type code	II-BL67-PG-EN-8				
Ident no.	1545068				
Number of channels	8				
Dimensions (W x L x H)	204 x 145 x 77.5 mm				
Supply voltage	24 VDC				
max. system supply current I _{mb (5V)}	1.3, A				
Max. sensor supply I _{sens}	4 A electronically limited current supply				

max. load current I。 Admissible range	electronically limited current supply 10 A 1830 VDC		
Fieldbus transmission rate	10/100 Mbps		
Fieldbus addressing	rotary switch, BOOTP, DHCP, IO-ASSISTANT		
9			
Service interface	RS232 interface (PS/2 socket)		
Fieldbus connection technology	female connector, M12 x 1, 4-pin, D-coded		
Voltage supply connection	5-nin male 7/8" connector		

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PLC data				
Programming	CODESYS 2			
Released for CODESYS version	V 2.3.6.4			
Programming languages	IEC 61131-3 (IL, LD, FBD, SFC, ST)			
Application tasks	1			
Number of POUs	1024			
Programming interface	RS232 interface, Ethernet			
Processor	RISC, 32 bit			
Cycle time	< 1 ms for 1000 IL commands (without I/O cy			
	cle)			
Program memory	512			
Data memory	512			
Input data	4			
Output data	4			
Non-volatile memory	16			
Transmission rate	115.2 kbps			
Cable length	50 m			
Electrical isolation	isolation of electronics and field level via onto			

Connection technology	M12
	couplers
Electrical isolation	isolation of electronics and field level via opto-
Cable length	50 m
Transmission rate	115.2 kbps

- CoDeSys-programmable acc. to IEC 61131-3
- Cable max. 50 m between interface and read/write head
- 10/100 Mbps
- Male M12 x 1, 4-pin, reverse-keyed, for fieldbus connection
- One male 7/8", 5-pin, for power supply
- LEDs for display of supply voltage, group and bus errors as well as status and diagnostics
- Connection of up to 8 read/write heads via BL ident M12 extension cables
- Mixed operation of HF and UHF read/ write heads

Wiring diagram



Power Supply



Functional principle

The pin resp. signal assignment results from the combination with an electronic module. You find the pin configuration and the wiring diagrams on the data sheet of the corresponding electronic module.

BL67 base modules are connected to the right of the gateway, using two screws for each module. A DIN rail is not required. This way, a compact and stable unit is built. The unit can now be mounted on a DIN rail or directly on the machine.

The field devices are connected to the base modules which are available with different connection technology (M8, M12, M23 and 7/8").

Note

Further technical data like temperature range are determined by the electronic modules and can be found on the data sheets.

Sensor supply

0.5 A per channel, short-circuit proof





Industrial Automation

Operating temperature

Temperature derating

> 55 °C Circulating air (Ventilation)

> 55 °C Steady ambient air

Storage temperature

Relative humidity

Vibration test

Extended vibration resistance

Extended vibration resistance - up to 5 g (at 10 to 150 Hz)

- up to 20 g (at 10 to 150 Hz)

Shock test Drop and topple

Electro-magnetic compatibility

IP Rating

-40...+70 °C

no limitation

Isens < 3A, Imb < 1A

-40...+85 °C

5 to 95 % (internal), Level RH-2, no conden-

sation (at 45 °C storage)

acc. to EN 61131

VN 02-00 and higher

for mounting on DIN rail no drilling according

to EN 60715, with end bracket

for mounting on base plate or machinery Therefore every second module has to be

mounted with two screws each.

acc. to IEC 68-2-27 acc. to IEC 68-2-31 and free fall to IEC

68-2-32

acc. to EN 61131-2

IP67

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.

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.

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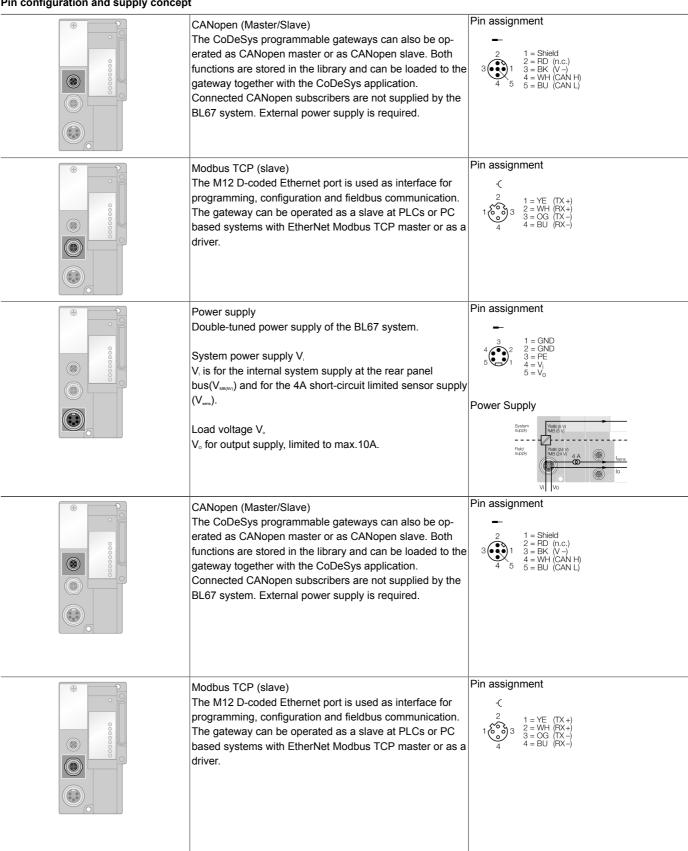
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Industrial Automation

Pin configuration and supply concept









Power supply

Double-tuned power supply of the BL67 system.

System power supply V

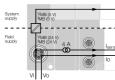
 $V_{\text{\tiny I}}$ is for the internal system supply at the backplane bus($V_{\text{\tiny MB(SM)}}$) and for the 4A short-circuit limited sensor supply ($V_{\text{\tiny Sem}}$).

Load voltage V.

V_o for output supply, limited to max.10A.





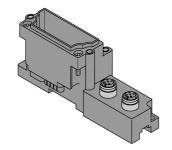






Compatible base modules

Design



Type

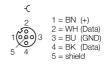
BL67-B-2M12 6827186 2 x M12, 5-pole, female, a-coded

Pin configuration

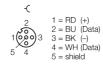
Connectors .../S2500



Connectors .../S2501



Connectors .../S2503







LED display

LED	Color	Status	Meaning
D	OFF		No error message or diagnostics active.
	RED	ON	Failure of module bus communication. Check if more than 2
			adjacent electronic modules are pulled. Relevant modules
			are located between gateway and this module.
	RED	FLASHING (0.5 Hz)	Upcoming module diagnostics
RW0 / RW1		OFF	No tag, no active diagnostics
	GREEN	ON	Tag available
	GREEN	FLASHING (2 Hz)	Data exchange with tag enabled
	RED	ON	Read/write head error
	RED	FLASHING (2 Hz)	Short-circuit in the supply line of read/write head





I/O Data Mapping

INPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Channel 0	n								
	n+1								
Channel 1	n+2								
	n+3								
OUTPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Channel 0	m								
	m+1								
Channel 1	m+2								
	m+3								





Accessories

Type code	ldent no.	Description	Design
RSSD-RSSD-441-6M/ S2174	6914219	Ethernet cable, M12 straight male connector to M12 male connector, 6 m	
			L
RSSD-RJ45-441-2M/ S2174	6915781	Ethernet cable, M12 straight male connector to RJ45 male connector, 2 m	
DIAMES CM	0044445	Davier aventu andra 7/0 atrainbt vitte annu andra and	—— L ———
RKM52-6M	6914145	Power supply cable, 7/8 straight with open cable end, 6 m	
			ι
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	73,0 7/8-16UN 37,4 28,0 17,5 26,0 34,8 7/8-16UN 0 26,0
RSSD-RSSD-441-6M/ S2174	6914219	Ethernet cable, M12 straight male connector to M12 male connector, 6 m	
			
			t
RSSD-RJ45-441-2M/ S2174	6915781	Ethernet cable, M12 straight male connector to RJ45 male connector, 2 m	
			L





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