

MA 8.1

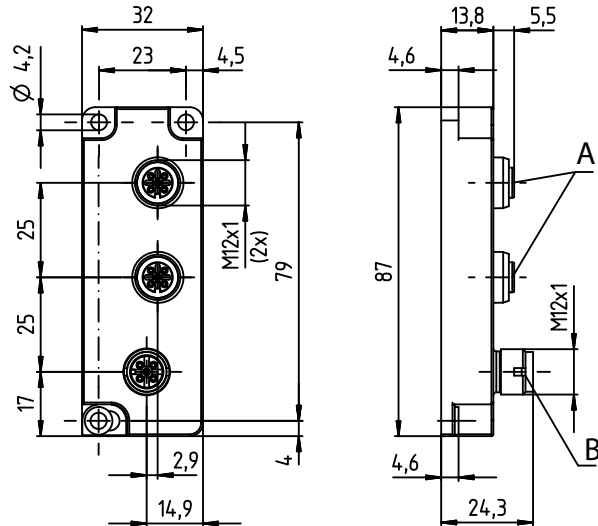
Connector unit for BCL 8



10 - 30 V
DC

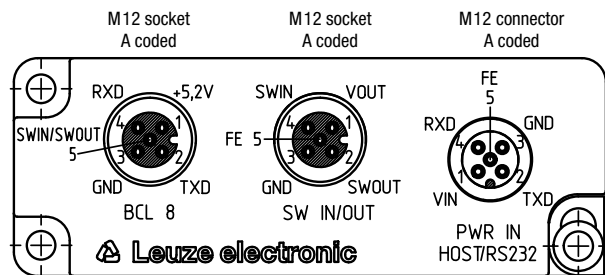
- Connector unit for easy connection of the BCL 8
- M12 connector
- Operating temperature 0°C ... +50°C
- Simultaneous use of input and output

Dimensioned drawing

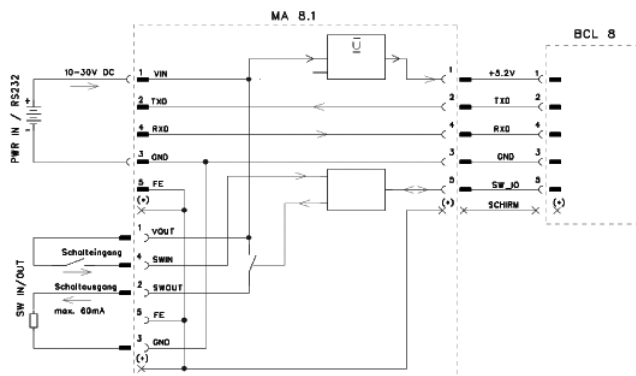


- A 5-pin socket
B 5-pin plug

Electrical connection



Contact option of FE connection



Accessories:

(available separately)

- Cable KB 008 ... for the connection of the connector unit to the BCL 8 also provides connections for RS 232, Power, and I/O, see separate data sheet



Specifications

Electrical data

Operating voltage U_B

10 ... 30VDC (power supply for the MA 8.1 must feature a safe electrical separation through double insulation and safety transformer acc. to EN 61558-2-6 (IEC 61558-2-6).¹⁾ max. 0.5W (without BCL 8)

Power consumption

Mechanical data

Housing

plastic

Protection class

IP 67 with M12 cap screwed on and/or cable attached

Dimensions

87x32x25mm³ (WxHxD)

Weight

70g

Connection type

M12 connector

Environmental data

Ambient temp. (operation/storage)

0°C ... +50°C/-30°C ... +80°C

Air humidity

max. 90% rel. humidity, non-condensing

Vibration

IEC 60068-2-6, test FC

Electromagnetic compatibility

EN 61000-6-2

EN 61000-6-3

FCC Part 15, Class A, UL

Conformity

1) For UL applications: only for use in "class 2" circuits in accordance with NEC.

Connector pin assignment

Connector PWR IN-HOST/RS232 (max. cable length: 10m)

Pin No. 	In-/output (MA perspective)	Signal	
1	I	Supply voltage	10 ... 30 VDC
2	O	RS 232/TxD	Data from the BCL 8 to the host
3	I	GND	
4	I	RS 232/RxD	Data from the host to the BCL 8
5	I	FE	Functional earth
Metal flange		FE	Functional earth

Socket SW IN/OUT (max. cable length: 10m)

Pin No. 	In-/output (MA perspective)	Signal	
1	O	Sensor/actuator supply voltage	10 ... 30VDC, coupled to supply voltage
2	O	SWOUT	Switching output, max. 60 mA
3	O	GND	
4	I	SWIN	Switching input, 10 ... 30V
5	O	FE	Functional earth
Metal flange		FE	Functional earth

Socket BCL (max. cable length: 3m)

Pin No. 	In-/output (MA perspective)	Signal	
1	O	BCL supply voltage	4.75 ... 5.5 VDC
2	I	RS 232/TxD	Data from the BCL 8 to the host
3	O	GND	
4	O	RS 232/RxD	Data from the host to the BCL 8
5	I/O	SWIN/SWOUT	Programmable switching input/output of the BCL 8
Metal flange		FE	Functional earth

Order guide

	Type	Part No.
Connector unit for BCL 8	MA 8.1	50101699