



Part no.: 50101699
MA 8.1
Modular connection unit



Figure can vary

Contents

- Technical data
- Electrical connection
- Accessories

Part no.: 50101699 – MA 8.1 – Modular connection unit

Technical data

Basic data

Series	MA 8
Suitable for	BCL 8 series bar code readers

Electrical data

Performance data

Supply voltage U_B	10 ... 30 V , DC
Current consumption, max.	50 mA

Interface

Type	RS 232
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Connection

Number of connections	3 Piece(s)
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Connection 1

Type of connection	Connector
Function	Connection to device
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Connection 2

Type of connection	Connector
Function	Signal IN Signal OUT
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Connection 3

Type of connection	Connector
Function	Connection with PLC Voltage supply
Thread size	M12
Type	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Mechanical data

Dimension (W x H x L)	32 mm x 25 mm x 87 mm
Housing material	Plastic
Net weight	70 g

Environmental data

Ambient temperature, operation	0 ... 50 °C
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Part no.: 50101699 – MA 8.1 – Modular connection unit

Ambient temperature, storage	-30 ... 80 °C
Relative humidity (non-condensing)	0 ... 90 %

Certifications

Degree of protection	IP 67
Certifications	c UL US

Classification

Customs tariff number	85369010
eCl@ss 8.0	27069190
eCl@ss 9.0	27069190
ETIM 5.0	EC001578
ETIM 6.0	EC001578

Electrical connection

Connection 1	
Type of connection	Connector
Function	Connection to device
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Pin	Pin assignment
1	V_IN
2	RS 232 TxD
3	GND
4	RS 232 RxD
5	SW IN/OUT

Connection 2	
Type of connection	Connector
Function	Signal IN Signal OUT
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Pin	Pin assignment
1	VOUT
2	SW OUT
3	GND

Part no.: 50101699 – MA 8.1 – Modular connection unit


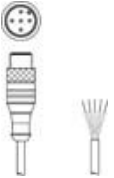

Pin	Pin assignment
4	SW IN
5	PE

Connection 3	
Type of connection	Connector
Function	Connection with PLC Voltage supply
Thread size	M12
Type	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Pin	Pin assignment
1	VIN
2	RS 232 TxD
3	GND
4	RS 232 RxD
5	PE

Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50040757	KB 008-3000 A	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 3,000 mm Sheathing material: PUR
	50101941	KB-008-3000 A-S	Connection cable	Connection 1: Connector, M12, Axial, Male, A-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 3,000 mm Sheathing material: PUR
	50133861	KD S-M12-5A-P1-100	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR

Note

A list with all available accessories can be found on the Leuze electronic website in the Download tab of the article detailed page.