

Technical data sheet

Modular connection unit

Part no.: 50101699
MA 8.1

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- Technical data
- Electrical connection
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For illustration purposes only



Technical data

Basic data

Series	MA 8
Suitable for	BCL 8 series bar code readers

Electrical data

Protective circuit	No information
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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

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

Connection 2

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

Connection 3

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

Mechanical data

Design	Cubic
Dimension (W x H x L)	32 mm x 25 mm x 86 mm
Housing material	Plastic
Net weight	70 g
Housing color	Black

Environmental data

Ambient temperature, operation	0 ... 50 °C
Ambient temperature, storage	-30 ... 80 °C
Relative humidity (non-condensing)	0 ... 90 %

Certifications

Degree of protection	IP 67
Protection class	III
Certifications	c UL US

Classification

Customs tariff number	85369010
ECLASS 5.1.4	27069190
ECLASS 8.0	27069190
ECLASS 9.0	27069190
ECLASS 10.0	27069190
ECLASS 11.0	27069090
ECLASS 12.0	27069090
ECLASS 13.0	27069090
ECLASS 14.0	27069090
ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855
ETIM 8.0	EC001855
ETIM 9.0	EC001855

Electrical connection

Connection 1

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

Electrical connection

Pin Pin assignment

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

Connection 2

Function	Signal IN
	Signal OUT
Type of connection	Connector
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
4	SW IN
5	PE

Connection 3

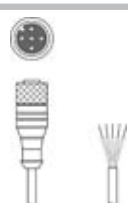
Function	Connection with PLC
	Voltage supply
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

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 Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 3.000 mm Sheathing material: PUR

Accessories

	Part no.	Designation	Article	Description
	50101941	KB-008-3000 A-S	Connection cable	Connection 1: Connector, M12, Axial, Male, A-coded, 5 -pin Connector, LED: No 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 Connector, LED: No 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 website in the Download tab of the article detailed page.