

Technical data sheet

Connection unit

Part no.: 50036186

MA 2 L



For illustration purposes only

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Technical data

Basic data

Series	MA 2
Suitable for	BCL 2x series bar code readers
	BCL 3x series bar code readers

Interface

Type	RS 232, RS 485
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Connection

Number of connections	3 Piece(s)
Connection 1	
Function	Data interface
	PWR / SW IN / OUT
Type of connection	Terminal
No. of pins	24 -pin
Connection 2	
Function	Connection to device
Type of connection	Sub-D
No. of pins	15 -pin
Connection 3	
Function	Service interface
Type of connection	Sub-D

Mechanical data

Design	Cubic
Dimension (W x H x L)	118 mm x 78.5 mm x 130 mm
Housing material	Metal
Metal housing	Diecast aluminum
Net weight	660 g
Housing color	Red

Operation and display

Type of display	LED
Number of LEDs	1 Piece(s)

Environmental data

Ambient temperature, operation	-10 ... 50 °C
Ambient temperature, storage	-20 ... 60 °C
Relative humidity (non-condensing)	90 %

Classification

Customs tariff number	84735080
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	Data interface
	PWR / SW IN / OUT
Type of connection	Terminal
Cable gland	PG11
No. of pins	24 -pin

Terminal

Assignment

1	RS 485 A / RS232 CTS
2	RS 485 A / RS232 CTS
3	RS 485 B / RS232 RTS
4	RS 485 B / RS232 RTS
5	RS 485 GND / RS232 GND
6	RS 485 GND / RS232 GND
7	res. / SE2
8	n.c.
9	SE 1
10	n.c.
11	VDD_SE
12	GND_SE
13	res. / SA2
14	SA1

Electrical connection

Terminal	Assignment
15	n.c.
16	GND_SA
17	V_IN
18	V_IN
19	GND_IN
20	GND_IN
21	PE
22	PE
23	RxD
24	TXD

Connection 2

Function	Connection to device
Type of connection	Sub-D
Type	Male
No. of pins	15 -pin

Pin	Pin assignment
1	GND 485 / GND
2	SWIN 1
3	RS 485 A / CTS
4	RS 485B / RTS
5	/MA0 // DY_CHN
6	/MA1 / SWO2
7	/Serv
8	VIN
9	/MA4 / SWI2
10	SWOUT 1
11	RXD_SERV / RXD
12	TXD_SERV / TXD
13	/MA2 / SCL_MA
14	/MA3 / SDA_MA
15	GNDIN

Connection 3

Function	Service interface
Type of connection	Sub-D
No. of pins	9 -pin
Type	Male

Pin	Pin assignment
1	n.c.
2	RxD_Serv
3	TxD_Serv
4	n.c.
5	GNDIN
6	n.c.
7	RS 232 RTS
8	RS 232 CTS
9	n.c.

Operation and display

LED	Display	Meaning
1	Green	Switching output/switching state

Accessories

Mounting technology - Rod mounts

	Part no.	Designation	Article	Description
	50027375	BT 56	Mounting device	Functions: Static applications Design of mounting device: Mounting system Fastening, at system: For 16 mm rod, For 18 mm rod, For 20 mm rod Mounting bracket, at device: Clampable Material: Metal Tightening torque of the clamping jaws: 8 N·m

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