

Technical data sheet

Connection unit

Part no.: 50036186

MA 2 L

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Figure can vary



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)
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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

Dimension (W x H x L)	118 mm x 78.5 mm x 130 mm
Housing material	Metal
Net weight	660 g

Environmental data

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

Classification

Customs tariff number	84735080
eCl@ss 5.1.4	27069190
eCl@ss 8.0	27069190
eCl@ss 9.0	27069190
eCl@ss 10.0	27069190
eCl@ss 11.0	27069090
ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855

Electrical connection

Connection 1

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

Pin Pin 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

Electrical connection

Pin	Pin assignment
12	GND_SE
13	res. / SA2
14	SA1
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

Electrical connection


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.