

Technical data sheet

Connection unit

Part no.: 50031537

MA 4

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For illustration purposes only



Technical data

Basic data

Series	MA 4
Suitable for	BCL 2x series bar code readers
	BCL 3x series bar code readers
Suitable for interface	RS 232
	RS 485

Electrical data

Protective circuit	Polarity reversal protection
Performance data	
Supply voltage U _B	10 ... 30 V, DC

Interface

Type	RS 232, RS 485
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Connection

Number of connections	2 Piece(s)
Connection 1	
Function	Data interface
	PWR / SW IN / OUT
Type of connection	Terminal
No. of pins	24 -pin
Connection 2	
Function	Service interface
Type of connection	Sub-D
No. of pins	9 -pin

Mechanical data

Design	Cubic
Dimension (W x H x L)	118 mm x 33 mm x 180 mm
Housing material	Metal
Metal housing	Diecast aluminum
Net weight	665 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 %

Certifications

Degree of protection	IP 54
Protection class	III

Classification

Customs tariff number	84733080
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	CTS / RS485A
2	CTS / RS485A
3	RTS / RS485B
4	RTS / RS485B
5	GND / GND485
6	GND / GND485
7	SE2 / RES
8	n.c.
9	SE 1

Electrical connection

Terminal	Assignment
10	n.c.
11	VDD_SE
12	GND_SE
13	SA2 / RES
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 / RES
24	TXD / RES

Connection 2

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

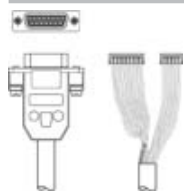
Pin	Pin assignment
1	n.c.
2	RxD
3	TXD
4	n.c.
5	GND
6	n.c.
7	n.c.
8	n.c.
9	n.c.

Operation and display

LED	Display	Meaning
1	Green	Switching output/switching state

Accessories

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50035355	KB 031-3000	Interconnection cable	Suitable for interface: RS 232, RS 485 Connection 1: Sub-D, Axial, Female, 15 -pin Connection 2: JST ZHR, 16 -pin Shielded: Yes Cable length: 3,000 mm

Accessories

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