

## Technical data sheet

### Connection unit

Part no.: 50031537

MA 4

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Figure can vary



# Technical data

## Basic data

Series	MA 4
Suitable for	BCL 2x series bar code readers BCL 3x series bar code readers

## Electrical data

<b>Performance data</b>	
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)
<b>Connection 1</b>	
Function	Data interface PWR / SW IN / OUT
Type of connection	Terminal
No. of pins	24 -pin
<b>Connection 2</b>	
Function	Service interface
Type of connection	Sub-D
No. of pins	9 -pin

## Mechanical data

Dimension (W x H x L)	118 mm x 33 mm x 180 mm
Housing material	Metal
Net weight	665 g

## 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
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## Classification

Customs tariff number	84733080
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	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
10	n.c.
11	VDD_SE

## Electrical connection

Pin	Pin assignment
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 Shielded: Yes Cable length: 3,000 mm

#### Note



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