

## Technical data sheet

### Connection unit

Part no.: 50031256

MA 2

#### Contents

- Technical data
- Electrical connection
- Operation and display
- Accessories



For illustration purposes only



## Technical data

### Basic data

Series	MA 2
Suitable for	BCL 2x series bar code readers LSIS 222 series stationary 2D-code readers
Suitable for interface	RS 232 RS 485

### Interface

Type	RS 232, RS 485
------	----------------

### Connection

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

### Mechanical data

Design	Cubic
Dimension (W x H x L)	119 mm x 33 mm x 180 mm
Housing material	Metal
Metal housing	Diecast aluminum
Net weight	575 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)	0 ... 90 %

### Certifications

Degree of protection	IP 54
----------------------	-------

### 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	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
15	n.c.
16	GND_SA

# Electrical connection

Terminal	Assignment
17	V_IN
18	V_IN
19	GND_IN
20	GND_IN
21	PE
22	PE
23	RxD
24	TxD

## 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

## 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

### Note



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