

Technical data sheet

Connection unit

Part no.: 50030481

MA 21 100

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Figure can vary



Technical data

Basic data

Series	MA 21
Suitable for	BCL 2x series bar code readers
	BCL 8 series bar code readers
	HFxx series mobile RFID read/write systems
	IT 1900g series mobile 2D-code readers

Electrical data

Protective circuit	Overvoltage protection
Performance data	
Supply voltage U _B	18 ... 36 V, DC

Interface

Type	RS 232, RS 485
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Connection

Number of connections	2 Piece(s)
Connection 1	
Function	Connection to device
	Connection with PLC
	Data interface
	Voltage supply
Type of connection	Terminal
No. of pins	31 -pin
Connection 2	
Function	Configuration interface
	Service interface
Type of connection	Sub-D
No. of pins	9 -pin

Mechanical data

Design	Cubic
Dimension (W x H x L)	120 mm x 55 mm x 180 mm
Housing material	Metal
Net weight	640 g
Housing color	Red, RAL 3000
Type of fastening	Through-hole mounting

Operation and display

Type of display	LED
Number of LEDs	4 Piece(s)

Environmental data

Ambient temperature, operation	0 ... 50 °C
Ambient temperature, storage	-20 ... 60 °C
Relative humidity (non-condensing)	5 ... 90 %

Certifications

Degree of protection	IP 65
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Classification

Customs tariff number	84733080
ECLASS 5.1.4	27379201
ECLASS 8.0	27379201
ECLASS 9.0	27069190
ECLASS 10.0	27069190
ECLASS 11.0	27069090
ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855

Electrical connection

Connection 1

Function	Connection to device
	Connection with PLC
	Data interface
	Voltage supply
Type of connection	Terminal
Cable gland	PG11
No. of pins	31 -pin

Terminal

Assignment

1	RS 485 A
2	RS 485 A
3	RS 485 B
4	RS 485 B
5	RS 485 GND
6	RS 485 GND
7	n.c.
8	n.c.
9	n.c.
10	n.c.
11	n.c.
12	n.c.

Electrical connection

Terminal	Assignment
13	n.c.
14	n.c.
15	+24V
16	GND
17	V_IN
18	V_IN
19	GNDIN
20	GNDIN
21	PE
22	n.c.
23	n.c.
24	n.c.
25	n.c.
26	RxD CLIENT
27	TXD CLIENT
28	GND CLIENT
29	n.c.
30	SV_5V
31	GND

Connection 2

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

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

Operation and display

LED	Display	Meaning
1	Off	None.
	Off	None.
2	Green, flashing	Data transmission active
	Off	None.
3	Green, continuous light	Operational readiness
	Green, flashing	Device ok, initialization phase
4	Yellow, flashing	Device ok, initialization phase
	Yellow, continuous light	Device error
5	Red, continuous light	Programming error
	Off	No error.
6	Off	None.
	Off	None.

Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50035421	KB 021 Z	Interconnection cable	Suitable for interface: RS 232 Connection 1: Sub-D, Axial, Male, 9 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 300 mm Sheathing material: PVC

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50135340	KB 900-500-MA 921-MA200i	Interconnection cable	Connection 1: Sub-D, Axial, Female, 25 -pin Connection 2: JST ZHR, 6 -pin Shielded: Yes Cable length: 500 mm

Note



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