

Technical data sheet Modular connection unit

Part no.: 50103125

MA 21 100.2

Contents

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- Electrical connection
- Operation and display
- Accessories



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
	LSIS 222 series stationary 2D-code readers
	RFI
	RFM

Electrical data

Protective circuit	Overvoltage protection
Performance data	
Supply voltage U_B	18 ... 36 V, DC
Inputs	
Number of digital switching inputs	1 Piece(s)
Switching inputs	
Type	Digital switching input
Voltage type	DC
Outputs	
Number of digital switching outputs	1 Piece(s)
Switching outputs	
Type	Digital switching output
Switching current, max.	500 mA
Switching output 1	
Switching element	Transistor, Push-pull
Switching principle	Light/dark reversible

Interface

Type	RS 232, RS 485
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Connection

Number of connections	3 Piece(s)
Connection 1	
Function	Connection to device Data interface
Type of connection	Terminal

Connection 2

Function	PWR / SW IN / OUT Voltage supply
Type of connection	Sub-D
No. of pins	9 -pin
No. of pins	28 -pin

Connection 3

Function	Configuration interface Service interface
Type of connection	Sub-D

Mechanical data

Design	Cubic
Dimension (W x H x L)	118 mm x 56 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	27069190
ECLASS 8.0	27069190
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 Data interface
Type of connection	Terminal
No. of pins	10 pins -pin 6 pins -pin

Electrical connection

Connection 2

Function	PWR / SW IN / OUT
	Voltage supply
Type of connection	Sub-D
Type	Male
No. of pins	9 -pin
Cable gland	PG11
No. of pins	28 -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.
10	SE 1
11	VDD_SE
12	GND_SE
13	Reserved
14	SA1
15	VDD_SA
16	GND_SA
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	Reserved
27	Reserved
28	Reserved

Connection 3

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

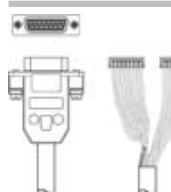
Pin	Pin assignment
1	n.c.
2	RxD Service
3	TXD service
4	n.c.
5	GND
6	n.c.
7	n.c.
8	n.c.
9	n.c.

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	None.
	Yellow, continuous light	Device error
5	Red, continuous light	Programming error
	Off	No error.
6	Off	None.
	Off	None.

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 Connector, LED: No Connection 2: JST ZHR Shielded: Yes Cable length: 3.000 mm
	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.