

Technical data sheet

Connection unit

Part no.: 50030835

MA 31 100



For illustration purposes only

Contents

- Technical data
- Electrical connection
- Operation and display



Technical data

Basic data

Series	MA 31
Suitable for interface	RS 485

Electrical data

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

Interface

Type	RS 485
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Connection

Number of connections	1 Piece(s)
Connection 1	
Function	Connection to device
	Data interface
	Voltage supply
Type of connection	Terminal
No. of pins	25 -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)	120 mm x 55 mm x 180 mm
Housing material	Metal
Metal housing	Diecast aluminum
Net weight	640 g
Housing color	Red, RAL 3000

Operation and display

Type of display	LED
Number of LEDs	6 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
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	Connection to device
	Data interface
	Voltage supply
Type of connection	Terminal
Cable gland	PG9
No. of pins	25 -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.

Electrical connection

Terminal	Assignment
11	n.c.
12	n.c.
13	n.c.
14	n.c.
15	n.c.
16	n.c.
17	V_IN
18	V_IN
19	GNDIN
20	GNDIN
21	PE
22	n.c.
23	RS 485 A
24	RS 485 B
25	RS 485 GND
26	
27	

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 Service
3	TXD service
4	n.c.
5	RS 232 GND
6	n.c.
7	n.c.
8	n.c.
9	n.c.

Operation and display

LED	Display	Meaning
1	Green, continuous light	BUS OK
	Green, flashing	Bus error
2	Green, flashing	Data transmission active
	Off	None.
3	Green, continuous light	Device OK
	Off	No supply voltage
4	Yellow, continuous light	Device error
	Yellow, flashing	None.
5	Red, continuous light	Trigger
	Off	None.
6	Green, flashing	Switching output/switching state
	Off	None.