

Technical data sheet

Connection unit

Part no.: 50030835

MA 31 100

Contents

- Technical data
- Electrical connection
- Operation and display



Figure can vary



Technical data

Basic data

Series	MA 31
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Electrical data

Protective circuit	Overvoltage protection
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Performance data

Supply voltage U _B	18 ... 36 V, DC
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Interface

Type	RS 485
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Connection

Number of connections	1 Piece(s)
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Connection 1

Function	Connection to device Data interface Voltage supply
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Type of connection	Terminal
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No. of pins	25 -pin
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Connection 2

Function	Service interface
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Type of connection	Sub-D
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No. of pins	9 -pin
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Mechanical data

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

Type of display	LED
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Number of LEDs	6 Piece(s)
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Environmental data

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

Degree of protection	IP 65
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Classification

Customs tariff number	84733080
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ECLASS 5.1.4	27069190
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ECLASS 8.0	27069190
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ECLASS 9.0	27069190
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ECLASS 10.0	27069190
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ECLASS 11.0	27069090
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ECLASS 12.0	27069090
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ECLASS 13.0	27069090
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ETIM 5.0	EC001855
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ETIM 6.0	EC001855
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ETIM 7.0	EC001855
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ETIM 8.0	EC001855
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Electrical connection

Connection 1

Function	Connection to device Data interface Voltage supply
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Type of connection	Terminal
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Cable gland	PG9
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No. of pins	25 -pin
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Terminal

Assignment

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

Terminal	Assignment
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.