

Technical data sheet

Modular connection unit

Part no.: 50114154
MA 235i CANopen Gateway

Contents

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



Figure can vary



Technical data

Basic data

Series	MA 2xxi
Suitable for	BCL 2x series bar code readers
	BCL 8 series bar code readers
	BPS 8 series bar code positioning system
	DCR 200i series stationary 2D-code readers
	FIS series mobile 2D-code readers
	HFxx series mobile RFID read/write systems
	HS 65x8
	IT 1900g series mobile 2D-code readers
	IT 1902g series mobile 2D-code readers
	IT 1910 series mobile 2D-code readers
	IT 1911i series mobile 2D-code readers
	LSIS 222 series stationary 2D-code readers
	RFI
	RFM

Electrical data

Performance data	
Supply voltage U_B	18 ... 30 V, DC
Current consumption, max.	300 mA

Interface

Type	RS 232, CANopen
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Connection

Number of connections	6 Piece(s)
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Connection 1

Function	Connection to device
Type of connection	Plug connector

Connection 2

Function	BUS OUT
Type of connection	Connector
Thread size	M12
Type	Female
Material	Plastic
No. of pins	4 -pin
Encoding	D-coded

Connection 3

Function	BUS IN
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Connection 4

Function	Voltage supply
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Connection 5

Function	Voltage supply
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Connection 6

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

Mechanical data

Dimension (W x H x L)	107 mm x 40 mm x 180 mm
Housing material	Metal
Net weight	700 g

Environmental data

Ambient temperature, operation	0 ... 55 °C
Ambient temperature, storage	-20 ... 60 °C
Relative humidity (non-condensing)	5 ... 90 %

Certifications

Degree of protection	IP 65
Certifications	c UL US

Classification

Customs tariff number	85423190
eCl@ss 5.1.4	27379201
eCl@ss 8.0	27379201
eCl@ss 9.0	27069190
eCl@ss 10.0	27069190
eCl@ss 11.0	27069090
ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855

Electrical connection

Connection 1

Leuze device

Function	Connection to device
Type of connection	Plug connector
No. of pins	10 pins -pin
	12 pins -pin
	6 pins -pin

Connection 2

BUS OUT

Function	BUS OUT
Type of connection	Connector
Thread size	M12
Type	Female
Material	Plastic
No. of pins	4 -pin
Encoding	D-coded

Pin Pin assignment

1	TD+
2	RD+
3	TD-
4	RD-

Connection 3

BUS IN

Function	BUS IN
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Pin Pin assignment

1	TD+
2	RD+
3	TD-
4	RD-

Connection 4

PWR

Function	Voltage supply
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Pin Pin assignment

1	VCC
2	SWIO 2
3	GND
4	SWIO 1
5	FE

Electrical connection

Connection 5

PWR

Function	Voltage supply
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Pin Pin assignment

1	V_IN
2	SWIO 2
3	GND
4	SWIO 1
5	FE

Connection 6

SERVICE

Function	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	Green, continuous light	BUS OK
	Red, continuous light	Bus error
2	Green, continuous light	Operational readiness
	Red, continuous light	Device error
3	Off	None.
	Off	None.
4	Off	None.
	Off	None.

Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50132079	KD U-M12-5A-V1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50114696	KB DN/CAN-5000 BA	Connection cable	Suitable for interface: DeviceNet, CANopen Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
	50114698	KB DN/CAN-5000 SBA	Interconnection cable	Suitable for interface: DeviceNet, CANopen Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 5 -pin Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
	50133298	KDS U-M12-5A-M12-5A-V1-050	Interconnection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 5 -pin Shielded: No Cable length: 5,000 mm Sheathing material: PVC

Connection technology - Terminating resistors

	Part no.	Designation	Article	Description
	50040099	TS 01-5-SA	Terminator plug	Suitable for: DeviceNet, CANopen Connection 1: Connector, M12, Axial, Male, A-coded, 5 -pin Function: Bus termination

Note



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