

## Technical data sheet

### Modular connection unit

Part no.: 50104789  
MA 8-02

#### Contents

- Technical data
- Electrical connection



For illustration purposes only



## Technical data

### Basic data

Series	MA 8
Suitable for	BCL 8 series bar code readers BPS 8 series bar code positioning system

### Electrical data

Protective circuit	No information
<b>Performance data</b>	
Supply voltage $U_B$	10 ... 30 V, DC
Current consumption, max.	50 mA

### Interface

Type	RS 485
<b>RS 485</b>	
Termination	47 k $\Omega$ / 150 $\Omega$ / 47 k $\Omega$

### Connection

Number of connections	3 Piece(s)
<b>Connection 1</b>	
Function	Connection to device
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded
<b>Connection 2</b>	
Function	Signal IN Signal OUT
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded
<b>Connection 3</b>	
Function	Connection with PLC Voltage supply
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

### Mechanical data

Design	Cubic
Dimension (W x H x L)	32 mm x 25 mm x 86 mm
Housing material	Plastic
Net weight	70 g
Housing color	Black

### Environmental data

Ambient temperature, operation	0 ... 50 °C
Ambient temperature, storage	-30 ... 80 °C
Relative humidity (non-condensing)	0 ... 90 %

### Certifications

Degree of protection	IP 67
Protection class	III
Approvals	c UL US

### Classification

Customs tariff number	85366990
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
ECLASS 15.0	27069090
ECLASS 16.0	27069090
ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855
ETIM 8.0	EC001855
ETIM 9.0	EC001855
ETIM 10.0	EC001855
UNSPSC 26.08	26121600

## Electrical connection

### Connection 1

Function	Connection to device
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

#### Pin Pin assignment

1	VIN
2	TxD
3	GND
4	RxD
5	SW IN/OUT

### Connection 2

Function	Signal IN Signal OUT
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

#### Pin Pin assignment

1	VOUT
2	SW OUT
3	GND
4	SW IN
5	FE

### Connection 3

Function	Connection with PLC 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	VIN
2	RS 485 B (N)
3	GND
4	RS 485 A (P)
5	FE