

Technical data sheet

Modular connection unit

Part no.: 50101699
MA 8.1

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- Technical data
- Electrical connection
- Accessories



Figure can vary



Technical data

Basic data

| | |
|--------------|-------------------------------|
| Series | MA 8 |
| Suitable for | BCL 8 series bar code readers |

Electrical data

| | |
|--------------------|----------------|
| Protective circuit | No information |
|--------------------|----------------|

Performance data

| | |
|---------------------------|-----------------|
| Supply voltage U_B | 10 ... 30 V, DC |
| Current consumption, max. | 50 mA |

Interface

| | |
|------|--------|
| Type | RS 232 |
|------|--------|

Connection

| | |
|-----------------------|------------|
| Number of connections | 3 Piece(s) |
|-----------------------|------------|

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 |

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 |

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 |

Mechanical data

| | |
|-----------------------|-----------------------|
| Design | Cubic |
| Dimension (W x H x L) | 32 mm x 25 mm x 87 mm |
| Housing material | Plastic |
| Plastic housing | PA 66 |
| 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 |
| Certifications | c UL US |

Classification

| | |
|-----------------------|----------|
| Customs tariff number | 85369010 |
| 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 |
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |
| ETIM 7.0 | EC001855 |
| ETIM 8.0 | EC001855 |

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 |

Electrical connection

| Pin | Pin assignment |
|-----|----------------|
| 1 | V_IN |
| 2 | RS 232 TxD |
| 3 | GND |
| 4 | RS 232 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 | PE |

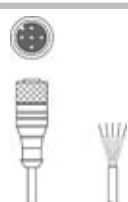
Connection 3

| | |
|--------------------|---------------------|
| 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 232 TxD |
| 3 | GND |
| 4 | RS 232 RxD |
| 5 | PE |

Accessories

Connection technology - Connection cables

| | Part no. | Designation | Article | Description |
|--|----------|---------------|------------------|--|
|  | 50040757 | KB 008-3000 A | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 3.000 mm Sheathing material: PUR |

Accessories

| | Part no. | Designation | Article | Description |
|---|----------|--------------------|------------------|---|
|  | 50101941 | KB-008-3000 A-S | Connection cable | Connection 1: Connector, M12, Axial, Male, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 3.000 mm Sheathing material: PUR |
|  | 50133861 | KD S-M12-5A-P1-100 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 10.000 mm Sheathing material: PUR |

Note



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