



Part no.: 50138211
MD 748i-11-82/L5-2222
Distribution box



Figure can vary

Contents

- Technical data
- Electrical connection
- Accessories

Technical data

| Basic data | |
|-------------------|----------------|
| Type | IO-Link master |

| Electrical data | |
|--|------------------|
| Performance data | |
| Supply voltage U_B | 20 ... 30 V , DC |
| Current consumption, max. | 12,000 mA |
| Outputs | |
| Number of digital switching outputs for each sensor connection | 1 Piece(s) |

| Interface | |
|----------------------|-------------------------|
| Type | IO-Link PROFINET |
| IO-Link | |
| COM mode | COM1 COM2 COM3 |
| Port type | A |
| Specification | V1.0.1 V1.1 |
| SIO-mode support | Yes |
| Profinet | |
| Conformance class | B |
| Protocol | PROFINET RT |
| Switch functionality | Integrated |
| Transmission speed | 10 Mbit/s 100 Mbit/s |

| Connection | |
|---------------------------------|--|
| Number of connections | 12 Piece(s) |
| Sensor connections | 8 Piece(s) |
| Connections for voltage supply | 2 Piece(s) |
| Number of interface connections | 2 Piece(s) |
| Connection 1 | |
| Type of connection | Connector , Applies for the sensor connections 1 - 8 |
| Function | Connection to 8 sensors |
| Thread size | M12 |
| Type | Female |
| Material | Metal |
| No. of pins | 5 -pin |
| Encoding | A-coded |
| Connection 2 | |
| Type of connection | Connector |
| Function | Voltage supply |
| Thread size | M12 |
| Type | Female |
| Material | Metal |
| No. of pins | 5 -pin |
| Encoding | L-coded |

Connection 3

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

Connection 4

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

Connection 5

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

Mechanical data

| | |
|-----------------------|------------------------|
| Dimension (W x H x L) | 65 mm x 30 mm x 212 mm |
| Housing material | Plastic |
| Net weight | 454 g |

Environmental data

| | |
|--------------------------------|---------------|
| Ambient temperature, operation | -25 ... 60 °C |
| Ambient temperature, storage | -40 ... 70 °C |

Certifications

| | |
|----------------------|---------|
| Degree of protection | IP 67 |
| Certifications | c UL US |

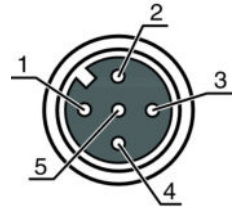
Classification

| | |
|-----------------------|----------|
| Customs tariff number | 85176200 |
| eCl@ss 8.0 | 19170106 |
| eCl@ss 9.0 | 19170106 |
| ETIM 5.0 | EC000734 |
| ETIM 6.0 | EC000734 |

Electrical connection

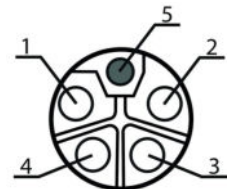
| Connection 1 | 1 - 8 |
|--------------------|-------------------------|
| Type of connection | Connector |
| Function | Connection to 8 sensors |
| Thread size | M12 |
| Type | Female |
| Material | Metal |
| No. of pins | 5 -pin |
| Encoding | A-coded |

| Pin | Pin assignment |
|-----|------------------------|
| 1 | L+ |
| 2 | IN1 |
| 3 | L- |
| 4 | IO-Link / OUT 1 / IN 1 |
| 5 | n.c. |



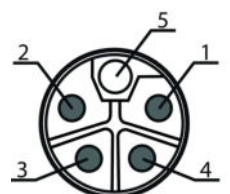
| Connection 2 | PWR IN |
|--------------------|----------------|
| Type of connection | Connector |
| Function | Voltage supply |
| Thread size | M12 |
| Type | Female |
| Material | Metal |
| No. of pins | 5 -pin |
| Encoding | L-coded |

| Pin | Pin assignment |
|-----|----------------|
| 1 | US+ |
| 2 | UA- |
| 3 | US- |
| 4 | UA+ |
| 5 | N/A |



| Connection 3 | PWR OUT |
|--------------------|----------------|
| Type of connection | Connector |
| Function | Voltage supply |
| Thread size | M12 |
| Type | Male |
| Material | Metal |
| No. of pins | 5 -pin |
| Encoding | L-coded |

| Pin | Pin assignment |
|-----|----------------|
| 1 | US+ |
| 2 | UA- |
| 3 | US- |

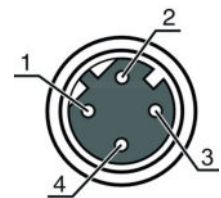


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| Pin | Pin assignment |
|-----|----------------|
| 4 | UA+ |
| 5 | N/A |

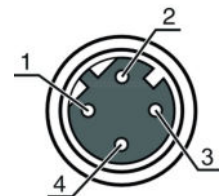
| Connection 4 | ETH1 |
|--------------------|----------------|
| Type of connection | Connector |
| Function | Data interface |
| Thread size | M12 |
| Type | Female |
| Material | Metal |
| No. of pins | 4 -pin |
| Encoding | D-coded |

| Pin | Pin assignment |
|-----|----------------|
| 1 | Tx+ |
| 2 | Rx+ |
| 3 | Tx- |
| 4 | Rx- |




| Connection 5 | ETH2 |
|--------------------|----------------|
| Type of connection | Connector |
| Function | Data interface |
| Thread size | M12 |
| Type | Female |
| Material | Metal |
| No. of pins | 4 -pin |
| Encoding | D-coded |

| Pin | Pin assignment |
|-----|----------------|
| 1 | Tx+ |
| 2 | Rx+ |
| 3 | Tx- |
| 4 | Rx- |





Accessories

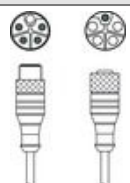


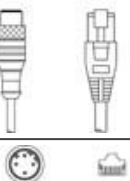
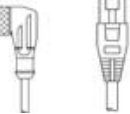
Connection technology - Connection cables

| | Part no. | Designation | Article | Description |
|---|----------|---------------------|------------------|---|
|  | 50141463 | KD PL-M12-5A-P0-050 | Connection cable | Connection 1: Connector, M12, Axial, Male, L-coded, 5 -pin Shielded: No Cable length: 5,000 mm Sheathing material: PUR |

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| | Part no. | Designation | Article | Description |
|---|----------|--------------------|------------------|--|
|  | 50130657 | KD U-M12-4A-P1-050 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR |
|  | 50130694 | KD U-M12-4W-P1-050 | Connection cable | Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR |

Connection technology - Interconnection cables

| | Part no. | Designation | Article | Description |
|---|----------|-----------------------------|-----------------------|--|
|  | 50141462 | KDS PL-M12-5A-M12-5A-P0-020 | Interconnection cable | Connection 1: Connector, M12, Axial, Male, L-coded, 5 -pin Connection 2: Connector, M12, Axial, Female, L-coded, 5 -pin Shielded: No Cable length: 2,000 mm Sheathing material: PUR |
|  | 50130743 | KDS U-M12-4A-M12-4A-P1-050 | Interconnection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 4 -pin Shielded: No Cable length: 5,000 mm Sheathing material: PUR |
|  | 50130761 | KDS U-M12-4A-M12-4W-P1-050 | Interconnection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Connector, M12, Angled, Male, A-coded, 4 -pin Shielded: No Cable length: 5,000 mm Sheathing material: PUR |
|  | 50135081 | KSS ET-M12-4A-RJ45-A-P7-050 | Interconnection cable | Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR |
|  | 50136183 | KSS ET-M12-4W-RJ45-A-P7-050 | Interconnection cable | Suitable for interface: Ethernet Connection 1: Connector, M12, Angled, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR |

Note

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