

Technical data sheet

Ethernet switch

Part no.: 50135197

MD 708-21-82/D4-12

Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Operation and display
- Notes
- Accessories



For illustration purposes only



Ethernet

Technical data

Basic data

| | |
|--------------|----------|
| Series | MD 700i |
| Suitable for | Ethernet |

Functions

| | |
|-----------|-----------------|
| Functions | Autocrossing |
| | Autonegotiation |
| | Full duplex |
| | Unmanaged |

Electrical data

| | |
|----------------------|----------------------------|
| Performance data | |
| Supply voltage U_B | 18 ... 30 V, DC, Redundant |

Interface

| | |
|----------------------|-----------------|
| Type | Ethernet |
| Ethernet | |
| Address assignment | None |
| Transmission speed | 10 / 100 Mbit/s |
| Switch functionality | Integrated |

Connection

| | |
|---------------------------------|------------|
| Number of connections | 9 Piece(s) |
| Connections for voltage supply | 1 Piece(s) |
| Number of interface connections | 8 Piece(s) |

Connection 1

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

Connection 2

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

Connection 3

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

Connection 4

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

Connection 5

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

Connection 6

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

Connection 7

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

Connection 8

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

Connection 9

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

Mechanical data

| | |
|-----------------------|------------------------|
| Design | Cubic |
| Dimension (W x H x L) | 55 mm x 21 mm x 145 mm |
| Housing material | Metal |
| Net weight | 485 g |
| Housing color | Silver |
| Type of fastening | Through-hole mounting |

Technical data

Operation and display

| | |
|-----------------|-------------|
| Type of display | LED |
| Number of LEDs | 10 Piece(s) |

Environmental data

| | |
|--------------------------------|---------------|
| Ambient temperature, operation | -25 ... 60 °C |
| Ambient temperature, storage | -40 ... 80 °C |

Certifications

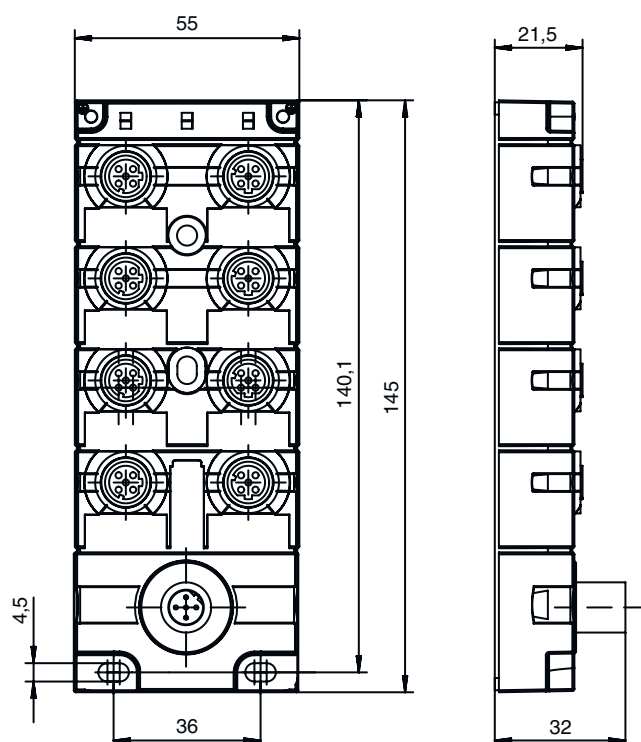
| | |
|----------------------|---------|
| Degree of protection | IP 67 |
| Approvals | c UL US |

Classification

| | |
|-----------------------|----------|
| Customs tariff number | 85176200 |
| ECLASS 5.1.4 | 19030117 |
| ECLASS 8.0 | 19170106 |
| ECLASS 9.0 | 19170106 |
| ECLASS 10.0 | 19170490 |
| ECLASS 11.0 | 19170490 |
| ECLASS 12.0 | 19170490 |
| ECLASS 13.0 | 19170490 |
| ECLASS 14.0 | 19170490 |
| ECLASS 15.0 | 19170490 |
| ETIM 5.0 | EC000734 |
| ETIM 6.0 | EC000734 |
| ETIM 7.0 | EC000734 |
| ETIM 8.0 | EC000734 |
| ETIM 9.0 | EC000734 |
| ETIM 10.0 | EC000734 |

Dimensioned drawings

All dimensions in millimeters



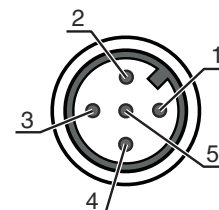
Electrical connection

Connection 1

| | |
|--------------------|----------------|
| 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

| Pin | Pin assignment |
|-----|----------------|
| 1 | +24 V DC |
| 2 | +24 V DC |
| 3 | 0 V DC |
| 4 | 0 V DC |
| 5 | GND / Ground |



Connection 2

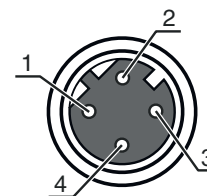
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| | |
|--------------------|----------------|
| Function | Data interface |
| Type of connection | Connector |
| Thread size | M12 |
| Type | Female |
| Material | Metal |
| No. of pins | 4 -pin |
| Encoding | D-coded |

Electrical connection

Pin Pin assignment

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

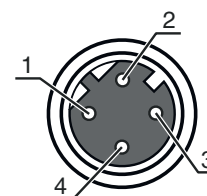


Connection 3 1

| | |
|--------------------|----------------|
| Function | Data interface |
| Type of connection | Connector |
| 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- |

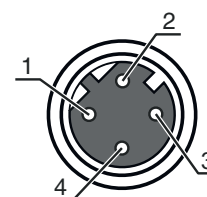


Connection 4 2

| | |
|--------------------|----------------|
| Function | Data interface |
| Type of connection | Connector |
| 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- |



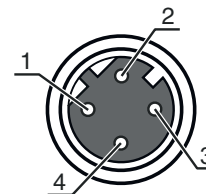
Connection 5 3

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

Electrical connection

Pin Pin assignment

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

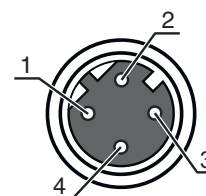


Connection 6 4

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

Pin Pin assignment

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

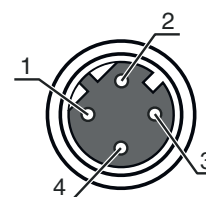


Connection 7 5

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

Pin Pin assignment

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

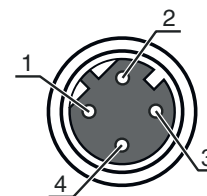


Connection 8 6

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

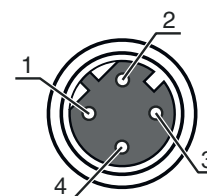
Electrical connection

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



| Connection 9 | 7 |
|--------------------|----------------|
| Function | Data interface |
| Type of connection | Connector |
| 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- |



Operation and display

| LED | Display | Meaning |
|----------|--------------------------|----------------------|
| 1 UB1 | Green, continuous light | Voltage supply OK |
| | Red, continuous light | Undervoltage < 17 V |
| 2 UB2 | Green, continuous light | Voltage supply OK |
| | Red, continuous light | Undervoltage < 17 V |
| 3 0 to 7 | Green, continuous light | 100 Mbit/s |
| | Yellow, continuous light | 10 Mbit/s |
| | Green, flashing | Data exchange active |
| | Yellow, flashing | Data exchange active |

Notes



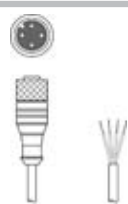

Observe intended use!



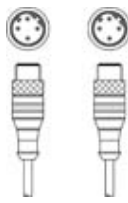
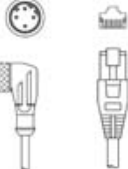
- ⚠ This product is not a safety sensor and is not intended as personnel protection.
- ⚠ The product may only be put into operation by competent persons.
- ⚠ Only use the product in accordance with its intended use.

Accessories

Connection technology - Connection cables

| | Part no. | Designation | Article | Description |
|--|----------|--------------------|------------------|---|
|  | 50130726 | KD S-M12-4A-P1-050 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR |
|  | 50130729 | KD S-M12-4W-P1-050 | Connection cable | Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR |

Connection technology - Interconnection cables

| | Part no. | Designation | Article | Description |
|--|----------|-----------------------------|-----------------------|--|
|  | 50137078 | KSS ET-M12-4A-M12-4A-P7-050 | Interconnection cable | Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Connector, M12, Axial, Male, D-coded, 4 -pin 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 website in the Download tab of the article detailed page.