

## Technical data sheet

### Actuator sensor interface

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**Module holder, RJ45, female / IDC**  
**For TS35 DIN rail**  
**Cat.6A**



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#### Identification

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|          |                                  |
|----------|----------------------------------|
| Type     | MDT-RJ45 F 8pol. Cat.6A TIA 568B |
| Part No. | <a href="#">490209</a>           |

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#### Product version

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|                   |    |
|-------------------|----|
| Datasheet version | 02 |
|-------------------|----|

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#### General

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|                                |                             |
|--------------------------------|-----------------------------|
| Design                         | RJ45<br>Female              |
| Degree of pollution            | 1                           |
| Insulation resistance          | >500 MΩ                     |
| Contact resistance             | <20 mΩ                      |
| Flamability according to UL 94 | V0                          |
| Degree of protection           | IP20 (EN 60529)             |
| Housing material               | PC                          |
| Color of the housing           | Grey                        |
| Contact material               | CuSn, gold-plated           |
| Strand diameter                | 0.9 mm – 1.6 mm             |
| Cable diameter                 | max.9 mm                    |
| Operation temperature range    | -40 °C ... +70 °C           |
| Storage temperature range      | -40 °C ... +70 °C           |
| Dimensions (w × h × d)         | 18.0 mm × 70.5 mm × 65.7 mm |
| Mechanical service life        | >750 insertion cycles       |
| Connection type                | Compliant terminal          |
| Cross-section, metric          | 0.14–0.75 mm <sup>2</sup>   |

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|                   |                  |
|-------------------|------------------|
| Cross-section AWG | 27-22/7, 26-22/1 |
| Weight/unit       | 0.053 kg         |
| PU (units)        | 1                |

#### Technical data

|                        |                        |
|------------------------|------------------------|
| Rated voltage $U_N$    | AC/DC 24 V             |
| Operating voltage max. | 50 V                   |
| Max. Power PoE         | PoE+ IEEE 802.3at 30W  |
| Rated current          | $\leq 1$ A per contact |
| Pole number            | 8                      |
| Bandwidth              | 500 MHz                |
| Transfer rate          | 10 Gbit/s              |
| Category               | Cat.6 <sub>A</sub>     |
| Contact type           | IDC                    |
| Shielding              | shielded               |

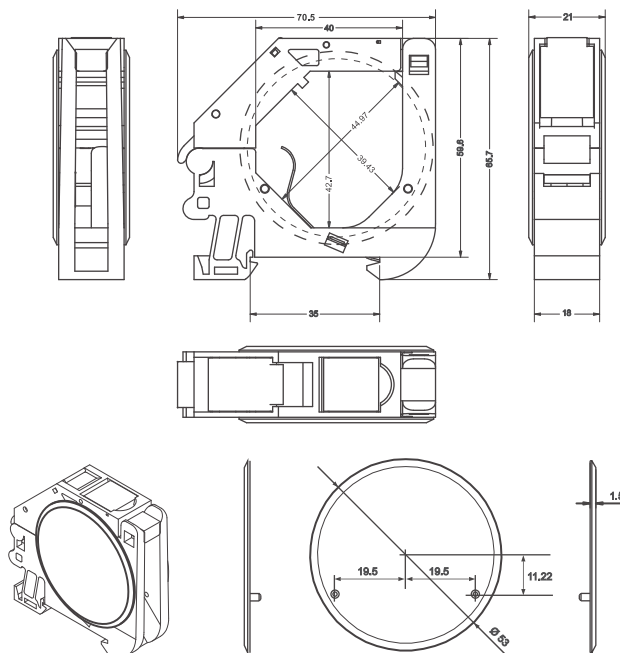
#### Certifications/Standards

|                |                                                                                                                                                                                                                                                  |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications | cULus Listed (E326112)                                                                                                                                                                                                                           |
| Standards      | DIN EN 50173-1 Generic cabling systems<br>UL 1863 UL Standard: Communications-Circuit Accessories<br>IEC 60603-7-51<br>Cat.6 <sub>A</sub> , Class E <sub>A</sub> acc. ISO/IEC 11801<br>IEEE 802.3.1:2013<br>IEEE 802.3:2018<br>IEEE 802.3bt:2018 |

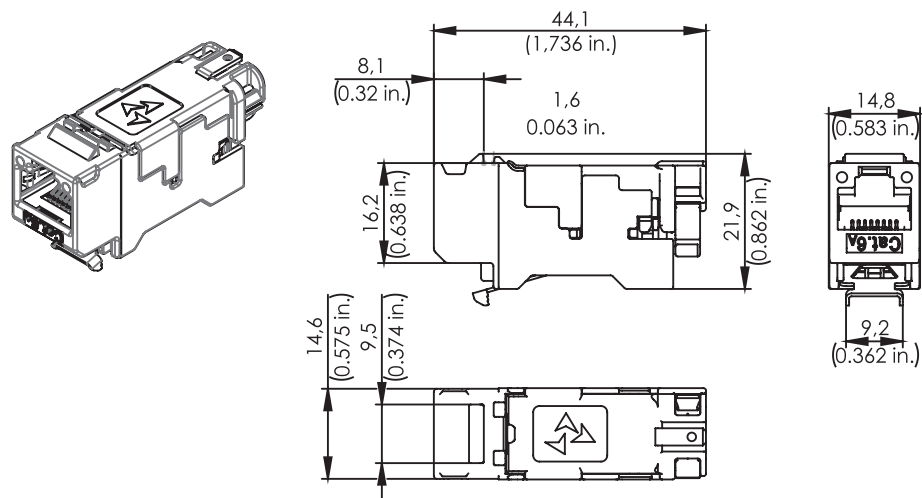
#### Notes and Comments

|          |                                                                        |
|----------|------------------------------------------------------------------------|
| Comments | Suitable cables, see overview assignment Ethernet cables to connectors |
|----------|------------------------------------------------------------------------|

#### Dimensions



Dimensions



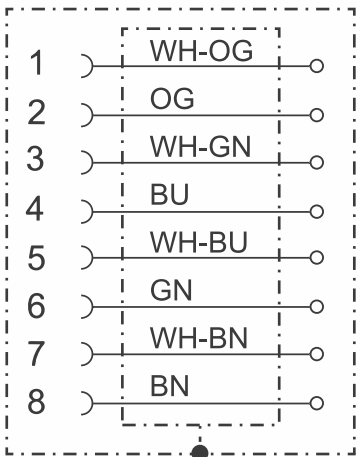
Connection assignment

RJ45

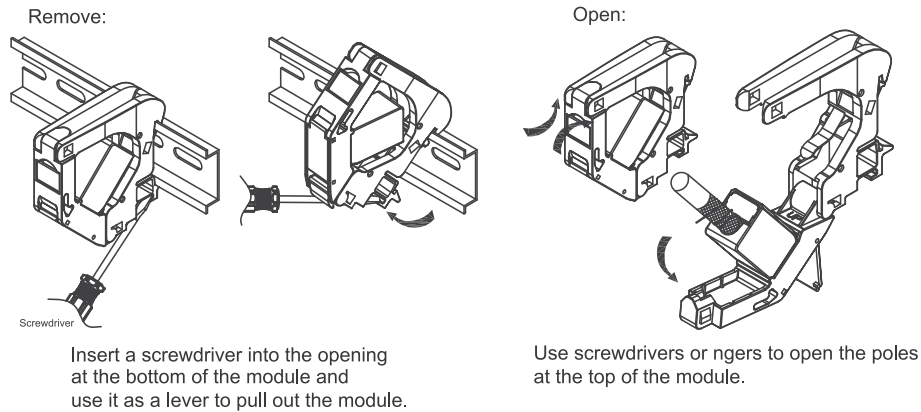
|   | TIA 568A | TIA 568 B | Profinet |
|---|----------|-----------|----------|
| 1 | WHGN     | WHOG      | YE       |
| 2 | GN       | OG        | OG       |
| 3 | WHOG     | WHGN      | WH       |
| 4 | BU       | BU        | -        |
| 5 | WHBU     | WHBU      | -        |
| 6 | OG       | GN        | BU       |
| 7 | WHBR     | WHBR      | -        |
| 8 | BR       | BR        | -        |

PIN assignment

RJ45 female  
Ethernet T568B



### Use



### Mounting diagram

