

## 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 568A |
| Part No. | <a href="#">490238</a>           |

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#### Product version

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|                   |    |
|-------------------|----|
| Datasheet version | 03 |
|-------------------|----|

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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                        |
| Color                          | grey                        |
| Contact material               | CuSn, gold-plated           |
| Strand diameter                | 0.9 mm – 1.6 mm             |
| Cable diameter                 | 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       |

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|                       |                                                  |
|-----------------------|--------------------------------------------------|
| Connection type       | Compliant terminal<br>AWG 27-22/7<br>AWG 26-22/1 |
| Cross-section, metric | 0.14–0.75 mm <sup>2</sup>                        |
| Cross-section AWG     | 27-22/7                                          |
| Weight/unit           | 0.053 kg                                         |
| PU (units)            | 1                                                |

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#### Technical data

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|                              |                       |
|------------------------------|-----------------------|
| Rated voltage U <sub>N</sub> | AC/DC 24 V            |
| Operating voltage max.       | 50 V                  |
| Max. Power PoE               | PoE+ IEEE 802.3at 30W |
| Rated current                | ≤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              |

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#### Certifications/Standards

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|           |                                                                                                                      |
|-----------|----------------------------------------------------------------------------------------------------------------------|
| Standards | ISO/IEC 11801<br>DIN EN 50173-1 Generic cabling systems<br>IEEE 802.3.1:2013<br>IEEE 802.3:2018<br>IEEE 802.3bt:2018 |
|-----------|----------------------------------------------------------------------------------------------------------------------|

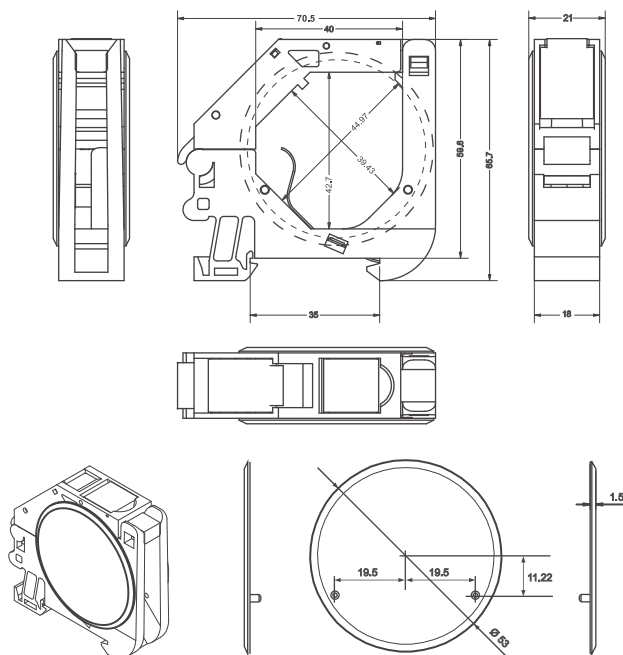
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#### Notes and Comments

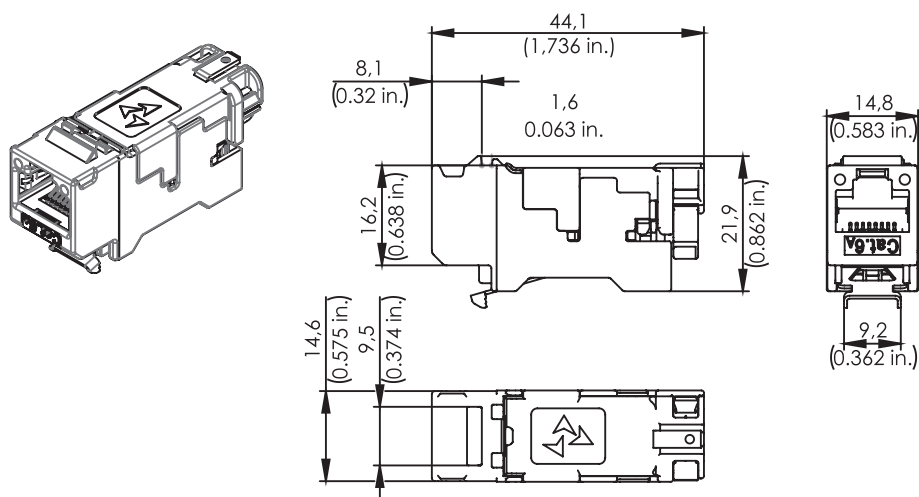
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|          |                                                                        |
|----------|------------------------------------------------------------------------|
| Comments | Suitable cables, see overview assignment Ethernet cables to connectors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

## Dimensions



## Dimensions



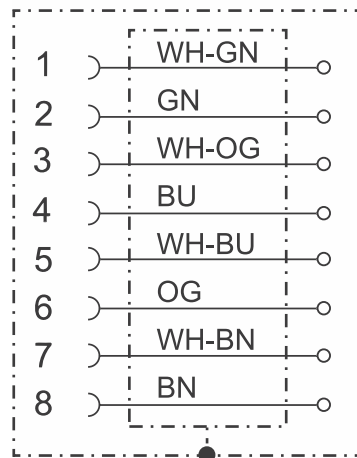
### Connection assignment

## RJ45

|   | <b>TIA 568A</b> | <b>TIA 568 B</b> | <b>Profinet</b> |
|---|-----------------|------------------|-----------------|
| 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               | -               |

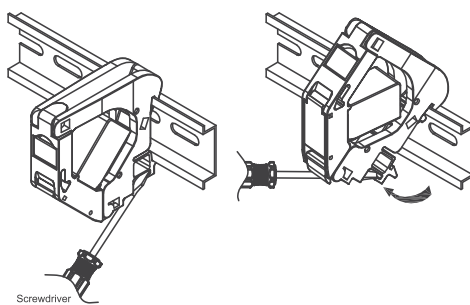
**PIN assignment**

RJ45 female  
Ethernet T568A



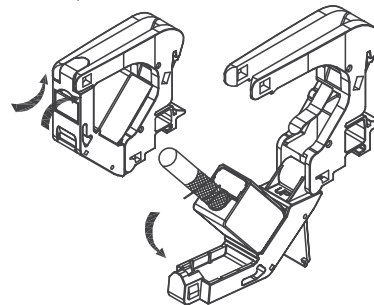
**Use**

Remove:



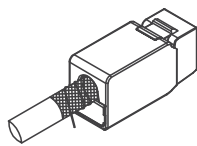
Insert a screwdriver into the opening at the bottom of the module and use it as a lever to pull out the module.

Open:

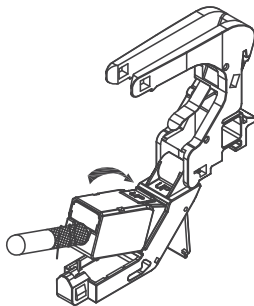


Use screwdrivers or fingers to open the poles at the top of the module.

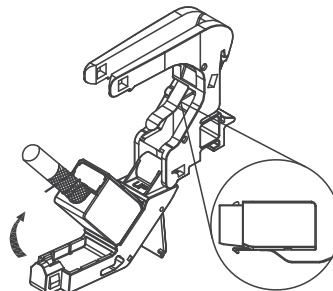
**Mounting diagram**



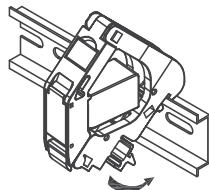
Step 1:  
Properly terminate  
a screened keystone  
jack with screened  
cable for DIN RAIL  
grounding connection.



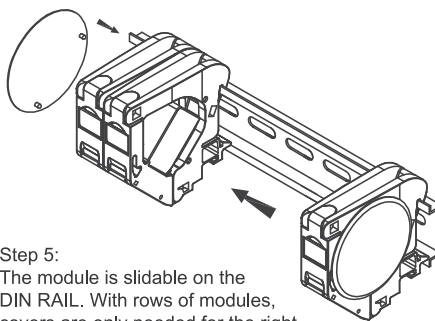
Step 2:  
Insert the keystone jack  
into DIN RAIL module,  
make sure the jack latch  
facing up.



Step 3:  
Lock the module and  
make sure the grounding  
spring contacts the jack  
to ensure grounding  
connection.



Step 4:  
Insert the DIN RAIL module  
at the top and rotate to click.



Step 5:  
The module is slidable on the  
DIN RAIL. With rows of modules,  
covers are only needed for the right  
and left ends of the row.