

# Technical data sheet

## Actuator sensor interface

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



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### Identification

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Type	MDT-RJ45 F 8pol. Cat.6A TIA 568A
Part No.	490238

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### Product version

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Datasheet version	01
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### General

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Design	RJ45 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
Cross-section AWG	27-22/7

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Part No. 490238 • Datasheet version: 01

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Connection type	Compliant terminal AWG 27-22/7 AWG 26-22/1
Weight/unit	0.053 kg
PU (units)	1

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#### Technical data

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Rated voltage $U_N$	AC/DC 24 V
Max. Power PoE	90 W The following standards for PoE are met: IEEE 802.3af (PoE) IEEE 802.3at (PoE+)
Operating voltage max.	50 V
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

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#### Certifications/Standards

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Certifications	cULus Listed (E326112) UL 1863 UL Standard: Communications-Circuit Accessories
Standards	ISO/IEC 11801 DIN EN 50173-1 Generic cabling systems IEEE 802.3.1:2013 IEEE 802.3:2018 IEEE 802.3bt:2018

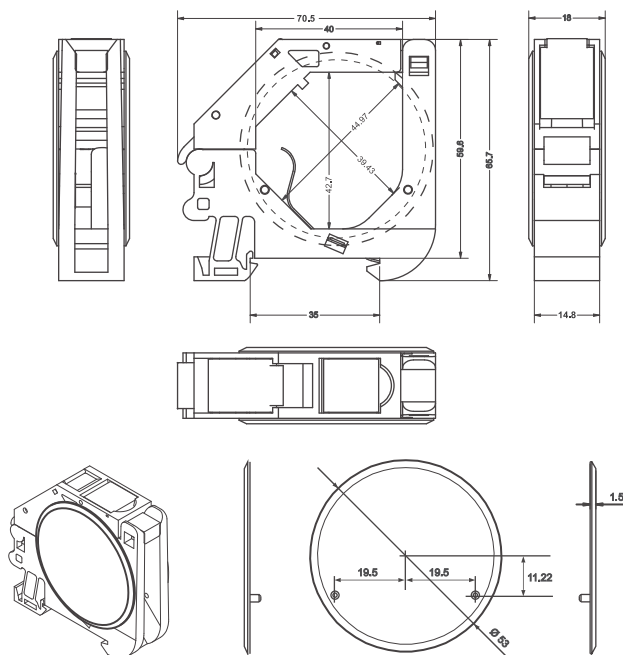
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#### Notes and Comments

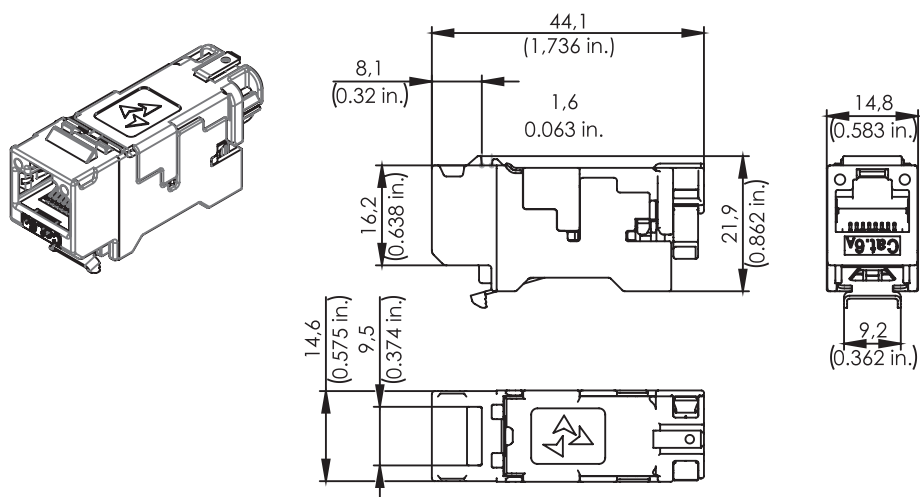
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Comments	Suitable cables, see overview assignment Ethernet cables to connectors
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Dimensions



Dimensions



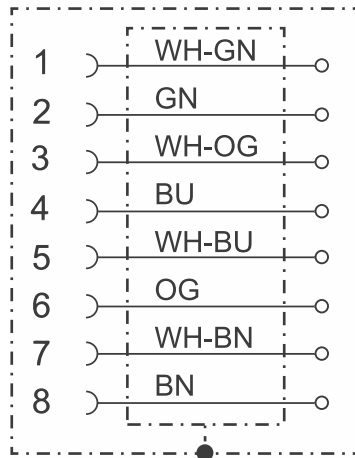
Connection assignment

RJ45

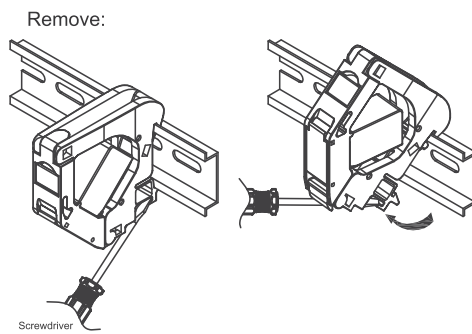
	TIA 568A	TIA 568 B	Profinet
1	WHGN	WHOG	YE
2	GN	OG	OG
3	WHOG	WHGN	WH
4	BU	BU	-
5	WHBU	WHBU	-
6	OG	GN	BU
7	WHBR	WHBR	-
8	BR	BR	-

**PIN assignment**

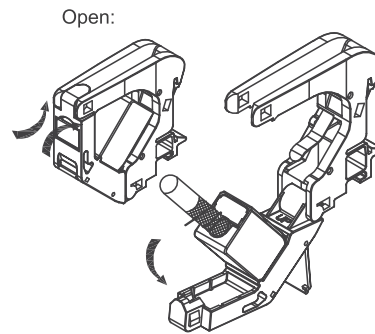
RJ45 female  
Ethernet T568A



**Use**



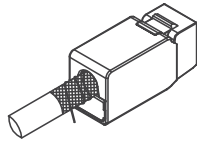
Insert a screwdriver into the opening at the bottom of the module and use it as a lever to pull out the module.



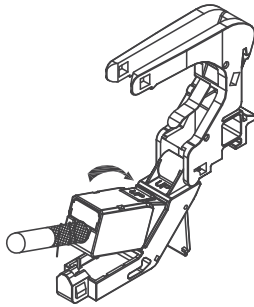
Use screwdrivers or ngers to open the poles at the top of the module.

**Mounting diagram**

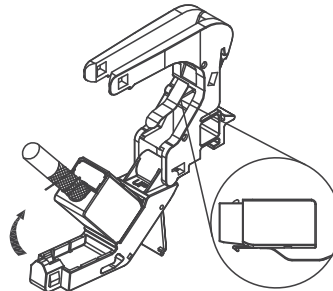
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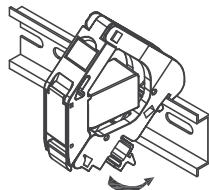
Step 1:  
Properly terminate  
a screened keystone  
jack with screened  
cable for DIN RAIL  
grounding connection.



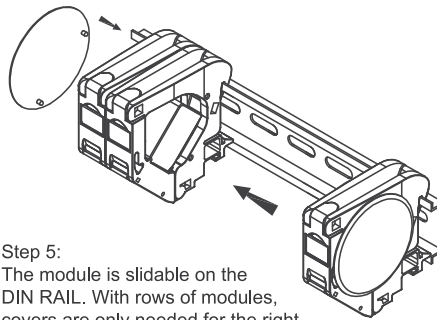
Step 2:  
Insert the keystone jack  
into DIN RAIL module,  
make sure the jack latch  
facing up.



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.