

Technical data sheet

Actuator sensor interface

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



Identification

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

Product version

Datasheet version	03
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General

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

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Connection type	Compliant terminal AWG 27-22/7 AWG 26-22/1
Cross-section, metric	0.14–0.75 mm ²
Cross-section AWG	27-22/7
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	≤1 A per contact
Pole number	8
Bandwidth	500 MHz
Transfer rate	10 Gbit/s
Category	Cat.6 _A
Contact type	IDC
Shielding	shielded

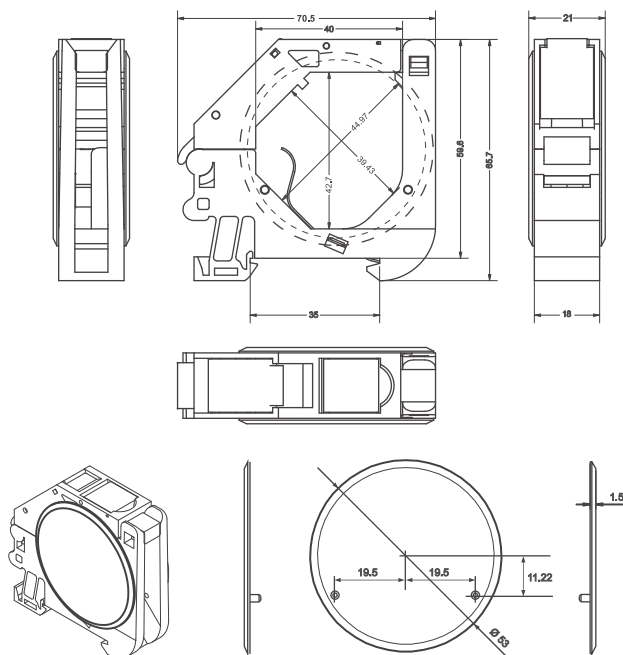
Certifications/Standards

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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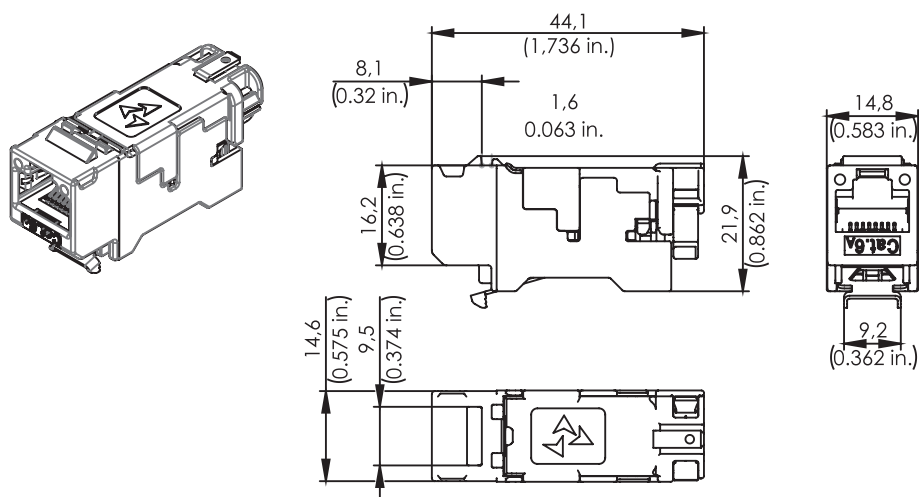
Notes and Comments

Comments	Suitable for Profinet, SERCOS3, Ethercat, Ethernet/IP, Powerlink, VARAN, Power over Ethernet+ (PoE+IEEE 802.3at) Suitable cables, see overview assignment Ethernet cables to connectors
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Dimensions



Dimensions



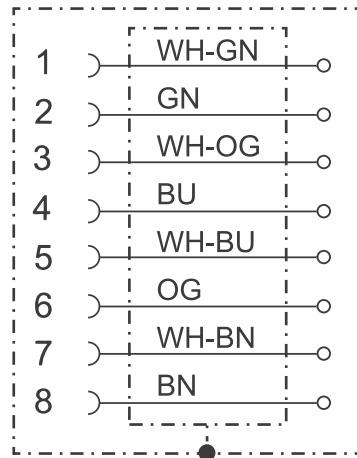
Connection assignment

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	-

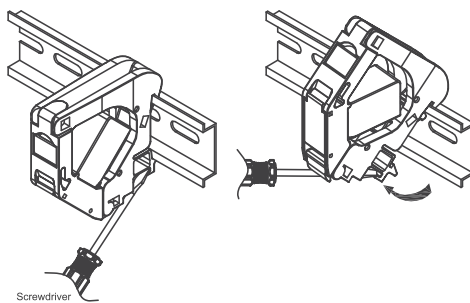
PIN assignment

RJ45 female
Ethernet T568A



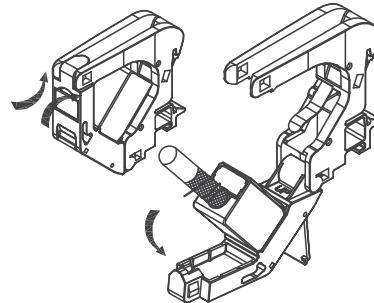
Use

Remove:



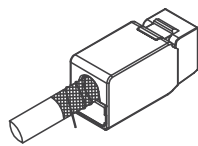
Insert a screwdriver into the opening at the bottom of the module and use it as a lever to pull out the module.

Open:

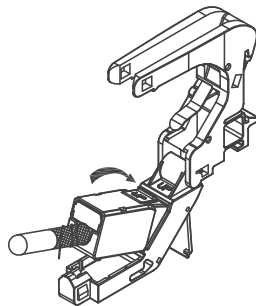


Use screwdrivers or fingers to open the poles at the top of the module.

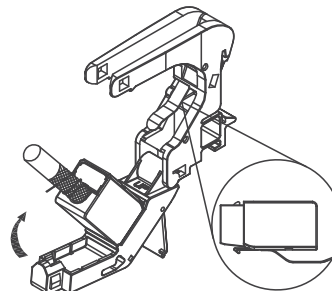
Mounting diagram



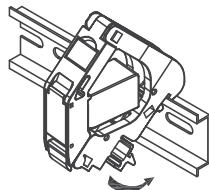
Step 1:
Properly terminate
a screened keystone
jack with screened
cable for DIN RAIL
grounding connection.



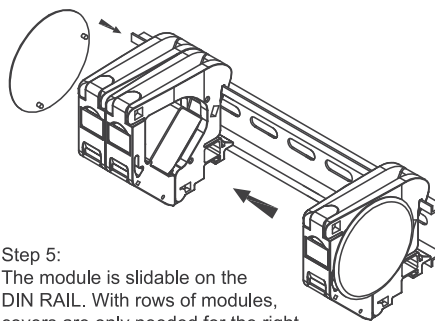
Step 2:
Insert the keystone jack
into DIN RAIL module,
make sure the jack latch
facing up.



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.