

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 568B
Part No.	490209

Product version

Datasheet version	02
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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
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 ²

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

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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

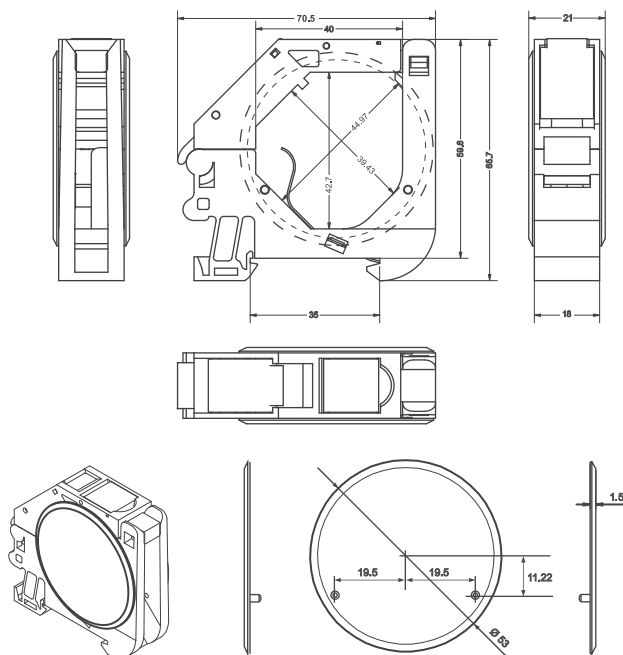
Certifications/Standards

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

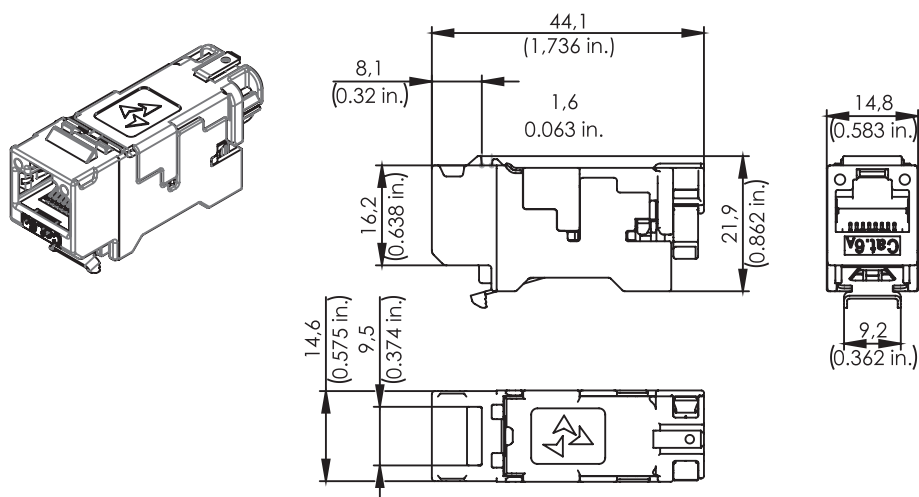
Notes and Comments

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



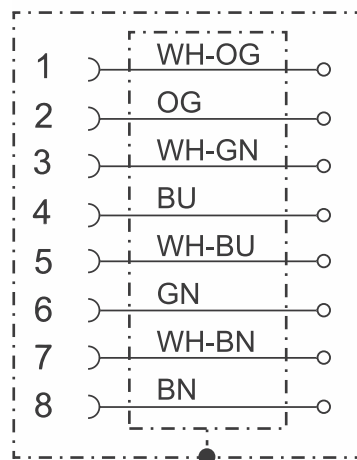
Connection assignment

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	-

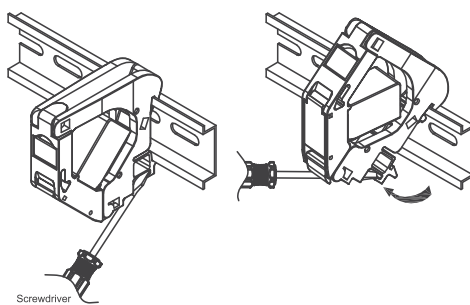
PIN assignment

RJ45 female
Ethernet T568B



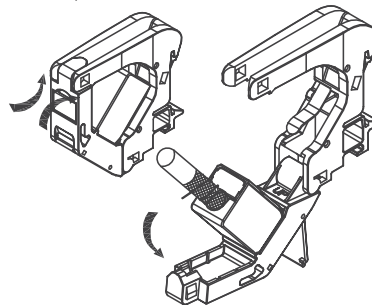
Use

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

