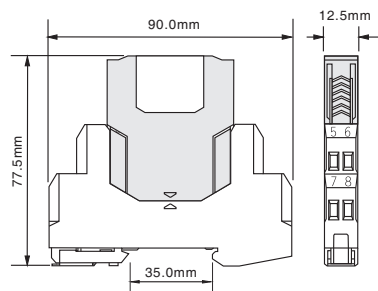
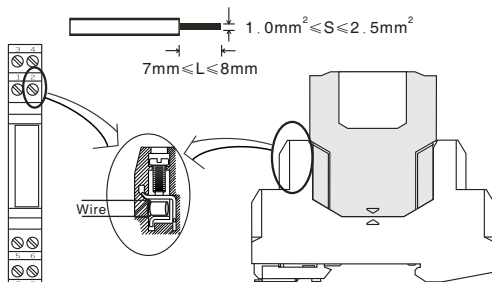


■ Dimensions



■ Connections

- (1).The SPDs adopt screw terminals;
- (2).The wires are single or multiple cables with a cross section area of $1.0\text{mm}^2 \sim 2.5\text{mm}^2$;
- (3).The length of bared wires are about 8mm, locked tightly by M2.5 bolt.

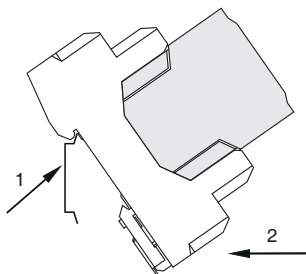


■ Installation

This SPD is designed for mounting on 35mm DIN guide rail.

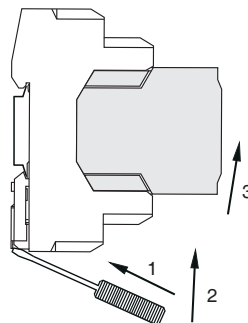
Installation according with the following steps:

- (1).Make the upside of the SPD locked into the guide rail;
- (2).Push the downside of the SPD in the rail.



■ Disassembly

- (1).Insert a screwdriver (its edge length $\leq 6\text{mm}$) into the downside metal lock of the SPD;
- (2).Push the screwdriver upwards, then prize the metal lock downwards;
- (3).Take the SPD out of the guide rail.



■ Maintenance

- (1).Before using, please check again whether the module's EX-proof rating accords with the operating ambient, and wiring and polarity are correct. If working with flameproof transmitter, live action is not allowed.
- (2).The products were test strictly before leaving factory. If users find any abnormalities in the module, please contact the nearest agent or our company.
- (3).In 5 years from the delivery date, if the product works improperly during normal operation, we will repair or replace it without payment.

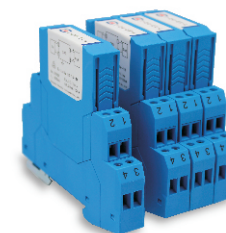
SHANGHAI CHENZHU INSTRUMENT CO.,LTD.

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Songjiang New Industrial Park, Shanghai 201612, P.R. China
Tel : +86-21-64513350 Fax : +86-21-64846984
Email : chenzhu@chenzhu-inst.com
<http://www.chenzhu-inst.com>



Surge Protective Devices

T-EX series



⚠ Caution

- Please check whether the product type on the package accords to the ordering contract;
- Read this manual carefully before installation or use. If there is something unclear, you can dial our technic support hotline;
- Prevent friction, avoid electrostatic;
- Users are not allowed to dismantle or repair the SPD otherwise it will induce malfunction.

Summarize

T-EX series intrinsic safety SPD is mainly used to protect the transmitters, switches, frequency signals, communication equipments, etc. Two-part design comprising a base part and a protection module.

Features:

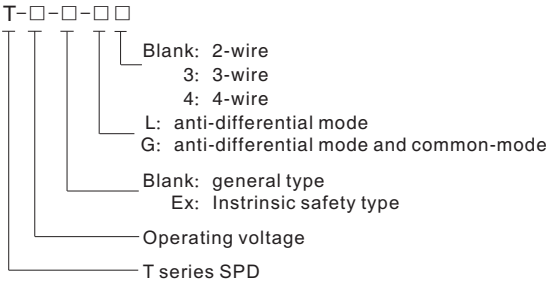
- (1).Space-saving width of just 12.5mm.
- (2).20kA(8/20us) maximum surge current.
- (3).Earthing via DIN rail.
- (4).Easy replacement of protection modules.
- (5).Don't interrupt signal when replacing the module.

Specification

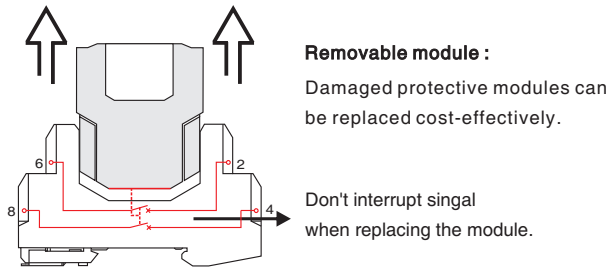
Type	T-5-EX-L T-5-EX-L3 T-5-EX-L4	T-5-EX-G T-5-EX-G4	T-24-EX-L T-24-EX-L3 T-24-EX-L4	T-24-EX-G T-24-EX-G4
Parameter				
Rated operating voltage Un	5VDC	5VDC	24VDC	24VDC
Max. operating voltage Uc	6VDC	6VDC	32VDC	32VDC
Leakage current	<3uA	<3uA	<1uA	<1uA
Protection level Up (line to line)	40V	40V	60V	60V
Protection level Up (line to ground)	600V	40V	600V	60V

Rated discharge current In: 10kA(8/20us)
Max. discharge current Imax: 20kA(8/20us)
Total discharge current Itotal: 40kA(8/20us)
Impulse current Iimp: 2.5kA(10/350us)
Total impulse current: 10kA(10/350us)
Max. operating current IL: 500mA
Voltage bandwidth(-0.5dB): 10MHz
Resistance per path: 1Ω / line
Response time: <1ns
Ambient temperature: -40℃ ~ +85℃
Relative humidity: 10% ~ 90%
Dimensions(L × W × H): 90.0mm × 12.5mm × 77.5mm
Connections: Screw connection
Max. sectional area: 2.5mm²
Grounding wire section area: 4 ~ 6mm²
Installation: DIN 35mm
Test standards: GB/T 18802.21
Lightning protection performance test: IEC 61643-21
Shanghai lightning protection centre

Model designations



Easy maintenance



Safety certification

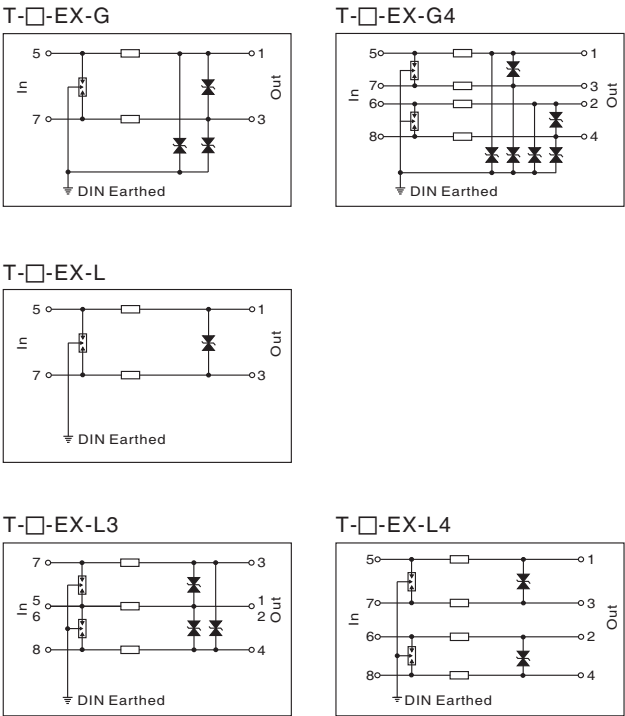
National Quality Supervision and Inspection Center for Products of Process Automation Instrumentation
Certification standards:
GB/T 20438.1(IEC 61508-1)
GB/T 20438.2(IEC 61508-2)
GB/T18802.21(IEC 61643-21)
Functional safety level: SIL3

Explosion-proof parameters

National Quality Supervision and Inspection Center for Products of Process Automation Instrumentation
EX-standards:
Ex ia IIC T4 ~ T6 Ga
Certification standards:
GB3836.1(IEC 60079-0)
GB3836.4(IEC 60079-11)

Type	Ui(V)	Ii(mA)	Pi(W)	CI(μF)	Li(mH)
T-5-EX-□□	6	500	0.75	0	0
T-24-EX-□	28	100	0.7	0	0
T-24-EX-□4	28	100	0.7	0	0
T-24-EX-L3	28	50	0.35	0	0

Function principle diagram



Typical application

