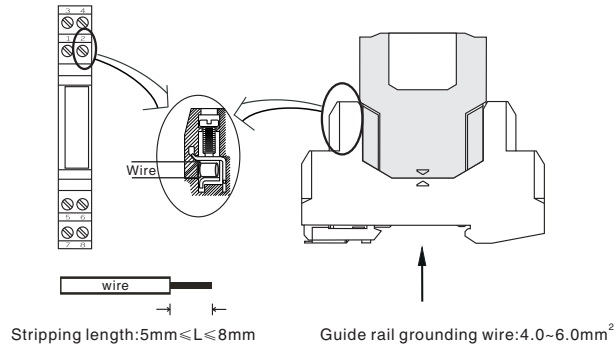


■ Connections

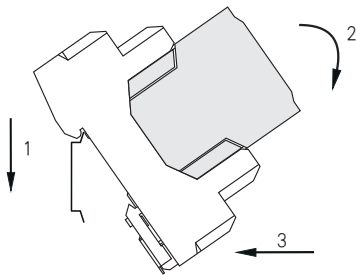
- (1).The SPDs adopt M2.5 screw terminals;
- (2).The wires are multiple cables with a cross section area of 0.2mm^2 ~ 2.5mm^2 or single cable about 0.2mm^2 ~ 4mm^2 ;
- (3).The stripping length is about 5~8mm, locked tightly by bolt.



■ Installation

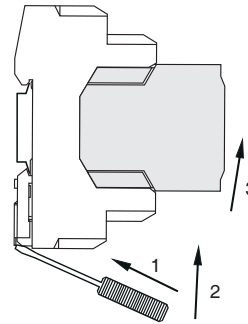
SPD must be reliably grounded. This series SPD is designed for mounting on 35mm DIN guide rail.

- (1).Make the upside of the SPD's bottom locked into the guide rail;
- (2).Push the downside of the SPD's bottom in the rail;
- (3).Copper or steel guide rails are suggested .



■ Disassembly

- (1).Insert a screwdriver (with an edge length $\leq 6\text{mm}$) into the downside metal lock of the SPD;
- (2).Push the screwdriver downwards, as shown in the figure below, then rise up the bottom of the SPD's metal guide rail card;
- (3).Take the SPD out of the guide rail.



■ Maintenance

- (1). Check if the connections are correct and tight before powering on SPDs.
- (2). SPDs' quality are well controlled and strictly inspected before delivery. If non-functional ones are found during operation, please contact us early enough.
- (3). Within 5 years of delivery, any problems occurred during normal operations can get treatments free.

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Surge Protective Devices

T series
for signal



Before using the product, please read this manual carefully and save it well.

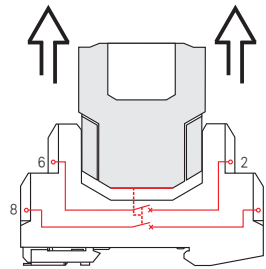
⚠ Caution

- 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

The T series general type SPD is used for protecting measuring and control circuits, bus systems and communication systems from being damaged by lighting surge voltage or operating over voltage.

Main features:



- Hot-plug:**
Hot plug is supported and module is easy to be replaced.
- Compact design with high discharge capacity:**
Space-saving width of just 12.5mm.
Maximum discharge capacity up to 20kA.
- It is convenient for grounding:**
Ground through DIN rail, which can reduce field wiring.

■ Technical data

Parameter \ Type	T-5-L T-5-L3 T-5-L4	T-5-G T-5-G4	T-24-L T-24-L3 T-24-L4	T-24-G T-24-G4
Rated operating voltage Un	5VDC	5VDC	24VDC	24VDC
Max. operating voltage Uc	6VDC	6VDC	32VDC	32VDC
Rated operating current IL	800mA	800mA	800mA	800mA
Resistance (per line)	1Ω	1Ω	1Ω	1Ω
Bandwidth (-0.5dB)	10MHz	10MHz	10MHz	10MHz
Leakage current	<10uA	<10uA	<1uA	<1uA
Nominal discharge current In(8/20us)	10kA	10kA	10kA	10kA
Max. discharge current Imax(8/20us)	20kA	20kA	20kA	20kA
Impulse current Iimp(10/350us)	2.5kA	2.5kA	2.5kA	2.5kA
Protection level Up (line to line)	40V	40V	60V	60V
Protection level Up (line to ground)	600V	40V	600V	60V
Protection level Up(In) (line to ground)	1.3kV	200V	1.3kV	220V

- Temperature range: -40°C~+85°C
- 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

■ Certificates

Lightning protection performance test

Shanghai Lightning Protection Center
Test standards: GB/T 18802.21(IEC 61643-21)

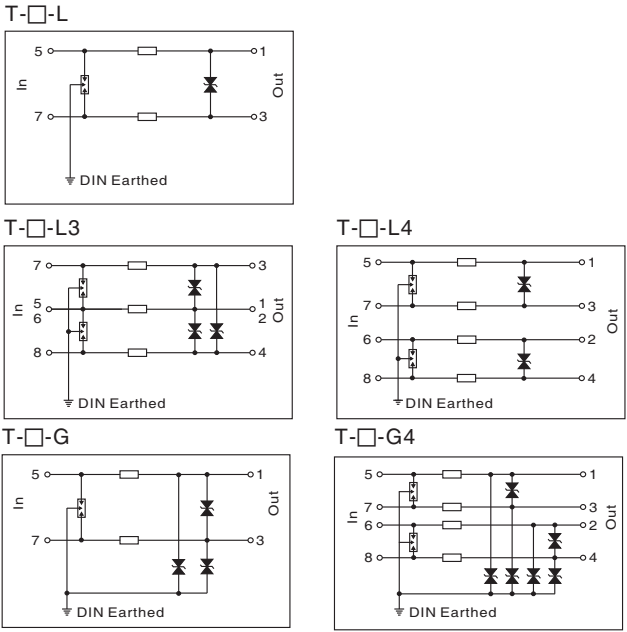
Functional safety level: SIL3

National Quality Supervision and Inspection Center for Products of Process Automation Instrumentation
Test standards: GB/T 20438.1(IEC 61508-1)
GB/T 20438.2(IEC 61508-2)

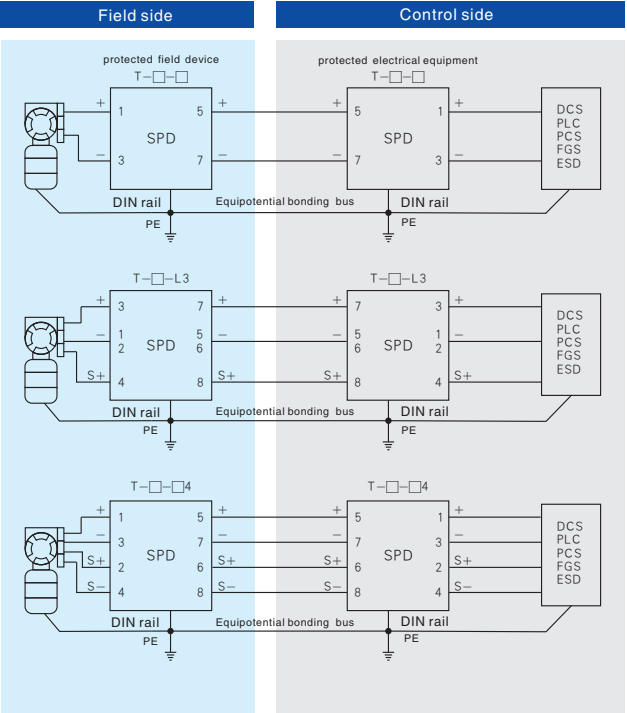
■ Model designations

- T-□-□□
- Blank: 2-wire
- 3: 3-wire
- 4: 4-wire
- L:Isolated voltage>500V(line to ground)
- G:Isolated voltage<500V(line to ground)
- Rated operating voltage
- T series SPD

■ Function principle diagram



■ Typical application



■ Dimensions

