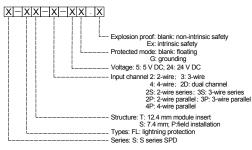
➔ Test standards

IEC 61643-1/GB 18802.1; IEC 61643-21/GB/T 18802.21 IEC 62305-1~IEC 62305-5; IEC 61508-1~IEC 61508-7

→ Model description



→ Features

- Ultra-thin design, save space;
- Multiple protection circuit, strong resistance to surge;
- Electric plugging;
- 35 mm ground rail;

Voltage Un Max. operating voltage Uc

(DČ)

• A variety of models, applicable to all measurement.

S-FLT-2-5 S-FLT-2D-5

5 V

6 V

Туре

S-FLT-2-24

S-FLT-2D-24

24 V

32 V

S-FLT-2-5G

S-FLT-2D-5G

5 V

6 V

S-FLT-2-24G

S-FLT-2D-24G

24 V

32 V

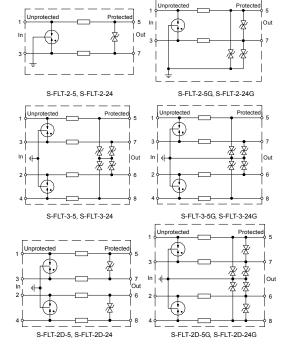
S-FLT-3-5

5 V

6 V

→ Parameters

Parameter



S-FLT-3-5G

5 V

6 V

S-FLT-3-24

24 V

32 V

S-FLT-3-24G

24 V

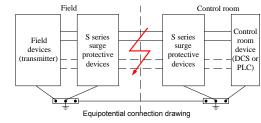
32 V

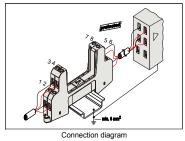
→ Wiring diagram

→	App	lications
----------	-----	-----------

S-FLT series non-intrinsic safety SPD is used to protect signals and control equipments, preventing interference caused by lightning or high voltage switch. In a short surge impact, by discharging the transient current to the ground to clamp the voltage in a safe level and ensure the transmission. It guarantees the safety for industrial automation equipment.

This product is a ultra-thin design with the advantages of strong surge resistance, low residual, fast response, continuous signal with electric plugging. Moreover, it is easy to use and install, can support all kinds of control system, the I/O system, communication network equipment, etc.





→ Grounding

It is necessary to ground the SPD correctly. Each SPD should be grounding by DIN rail.

		_		_	
Naniir	na New	Power	Electric	Co	I td
ւմները	IG INCW			00.,	цα.

S-FLT series

Non-Intrinsic Safety Signal

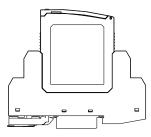
Surge Protective Devices

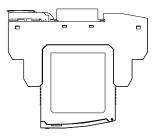
nominal current IL	850 mA	850 mA	850 mA	850 mA	850 mA	850 mA	850 mA	850 mA
Total discharge current In (8/20 µs, C2)	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Discharge current per path In (8/20 µs, C2)	10 kA	10 kA	10 kA	10 kA	10 kA	10 kA	10 kA	10 kA
Impulse current limp (10/350 µs)	2.5 kA	2.5 kA	2.5 kA	2.5 kA	2.5 kA	2.5 kA	2.5 kA	2.5 kA
Voltage protection Up (8/20 µs, C2)	L-L ≤ 45 V	L-L ≤ 60 V	L-L ≤ 45 V	L-L ≤ 60 V	L-L ≤ 45V	L-L ≤ 45V	L-L ≤ 60V	L-L≤60 V
	L-PE ≤ 550 V	L-PE ≤ 550 V	L-PE ≤ 45 V	L-PE ≤ 60 V	L-PE ≤ 550 V	L-PE ≤ 45V	L-PE ≤ 550 V	L-PE ≤ 60 V
Voltage protection Up (1 kV/µs, C3)	L-L≤15 V	L-L ≤ 45 V	L-L ≤ 15 V	L-L ≤ 45 V	L-L ≤ 15 V	L-L ≤ 15V	L-L ≤ 45 V	L-L ≤ 45 V
	L-PE ≤ 550 V	L-PE ≤ 550 V	L-PE ≤ 15 V	L-PE ≤ 45 V	L-PE ≤ 550 V	L-PE ≤ 15 V	L-PE ≤ 550 V	L-PE ≤ 45 V
Series impedances	1 Ω	1Ω	1Ω	1 Ω	1 Ω	1 Ω	1 Ω	1 Ω
Limiting frequency (fG)	100 MHz	10 MHz	100 MHz	10 MHz	1 MHz	1 MHz	7 MHz	7 MHz
Response time	<1 ns							
Temperature	-40 °C ~ +80 °C							
Installation	35 mm DIN rail							
Connections	Screw terminal grounding							
Connecting wire size	0.2 \sim 2.5 mm 2							
Material	PC							



→ Dimension

Width × Height× Length: 12.4 mm × 90 mm × 78 mm





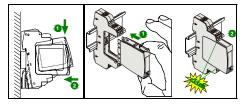
→ Installation

- The apparatus can be mounted on a 35 mm standard rail corresponding to DIN EN 60715, they must be snapped onto the rail, and never slanted or tipped to the side.
- O Requirements for installation

In the safe zone, surge protective devices and safety barrier can be installed in the same or different cabinet, but can not be installed on the same track side by side.

The cables (and wires) associated with the safety and the hazardous area should be wired and laid separately.

O Installation steps are as follows:

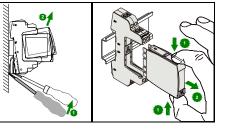


Installation

 a) Make the metal bayonet locked into the guide rail, push the SPD in the rail as the direction of the arrow in the above.

 b) Install the module, make the arrow on the module and the pedestal at the same side, aim at card slot, then pinch the module as shown in the figure and push in. The sound of "Ka" slight means complete.

O Removing steps are as follows:

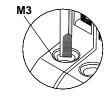


Removing

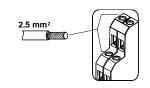
- a) First, pry the metal lock off the rail with screwdriver as arrow shown, pull downward the springs, and rotate the SPD, then remove it.
- b) To remove the module, pinch the side edge of the module as shown in the figure and pull out the SPD.

→ Connections

O Using M3 screwdriver;



O Wire size is $0.2 \text{ mm}^2 \sim 2.5 \text{ mm}^2$;



O Maximum torque of the screw is 0.5 N.m;



→ Attentions

- O The current Input Isolated Safety Barriers was constructed in protection degree IP 20 and must therefore be protected from undesirable ambient conditions (water, small foreign objects). It is suitable for installed in control room or high density field cabinet, convenient for installation and displacement.
- O The devices were designed for use in pollution degree 2 and overvoltage category III as IEC/EN 60664-1. If used in areas with higher pollution degree, the devices need to be protected accordingly.
- O Installation position shall not be affected by strong mechanical vibration, impact and electromagnetic induction from signal terminal and power supply, should conformity with the requirements on electromagnetic interference resistance of products in Class 3 industrial field atmosphere stipulated in IEC 61000-4, and the atmosphere shall be free from gases that are corrosive to metal and plastic components.
- O Before installation, please check the surge protector is intact or not. If have any damage, it should not be installed.
- O Only using the SPD according to this document, if more than the rated value, SPD and other device are likely to be damaged.
- O Devices must only be repaired directly by the manufacturer. Tampering with the apparatus is dangerous and therefore forbidden.
- O The grounding module can only be inserted into the isolating part.

→ Supplements

- O The apparatus must be installed, connected and adjusted by qualified personnel in non-hazardous area according with the instruction manual.
- O If faults cannot be eliminated, the apparatus must be

taken out of operation and protected from being placed in service again inadvertently. Devices must only be repaired directly by the manufacturer. Tampering with the apparatus is dangerous and therefore forbidden.

- O The operator must strictly comply with the relevant local safety standards and guidelines.
- O If there is any content difference between the specification and the website or sample, the instructions shall prevail. We reserve the rights to change or update the product information without prior noticing the users.