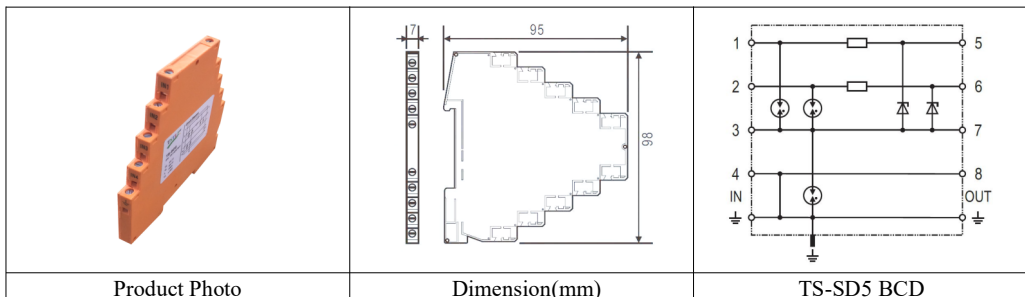




■ TSTLP®/TS-SD series Surge Arrester for Information Technology System

- ❖ **INTRODUCTION:** TS-SD Series is for installation at LPZ 0B -2 or higher, protecting the RS-422/RS-485 devices against lightning and surge damages, providing coarse and fine protection.
- ❖ We're able to make **different CIRCUIT, Voltage & Technical Data** according to customers' requirement, just tell exact product application needed or send us sample(s) to make.



❖ TECHNICAL DATA

Model		TS-SD5	TS-SD24
Nominal voltage	Un	5V-	24V-
Rated voltage (max. continuous voltage)	Uc	6V(line/line) 160V(line/PG,SG/PG) 6V(line/SG)	32V(line/line) 160V(line/PG,SG/PG) 32V(line/SG)
Nominal discharge current (8/20)	In	10 KA	10 KA
Max. discharge current(8/20)	I _{max}	20 KA	20 KA
Lightning discharge current (10/350)	I _{imp}	1KA	1KA
Voltage protection level at 4kV(1.2/50μS)	Up	25V(line/line) ≤800V(line/PG,SG/PG) ≤25V(line/SG)	60V(line/line) ≤800V(line/PG,SG/PG) ≤60V(line/SG)
Response time	t _A	≤4ns(line/line) ≤20ns(line/PG,SG/PG) ≤4ns(line/SG)	≤4ns(line/line) ≤20ns(line/PG,SG/PG) ≤4ns(line/SG)
Max. load current	I _N	100mA	400mA
Series impedance per line	R	2Ω	1.5Ω
Capacitance	C	≤300pF(line/line) ≤100pF(line/PG,SG/PG) ≤300pF(line/SG)	≤1500pF(line/line) ≤100pF(line/PG,SG/PG) ≤1500pF(line/SG)
Operating temperature range		-40°C...+80°C	
Cross-sectional area		Max. 2.5m ² flexible	
Mounting on		35mm DIN rail	
Enclosure material		Orange thermoplastic material, UL94-V0	
Standards		IEC 61643-21; GB 18802.21; YD/T 1542	
Compliance		CE (LVD, EMC)	

❖ MAIN CHARACTER

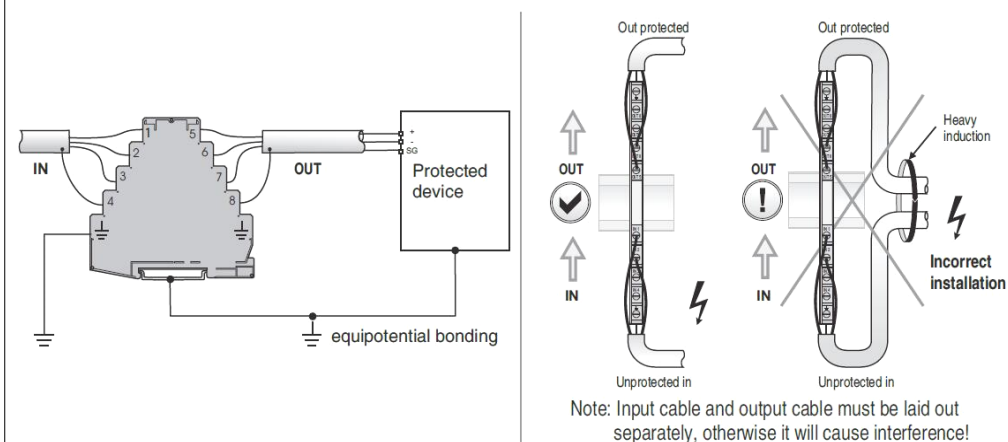
- ✓ Small size, only 7mm wide module
- ✓ Connected to earth by DIN rail or earthing terminal
- ✓ With shield terminal(direct or indirect to earth)

INSTALLATION INSTRUCTION

1. This product is connected in series to the protected device.
2. The IN (1/2, 3/4) terminal should be connected to the single lines input, the OUT (5/6, 7/8) terminal should be connected to the protected devices.
3. There is a earthing terminal in each side, and it is recommended to use the one at output side; earth lead must be connected to the earthing system, ideally using 2.5mm² cable. The cable should be as short as possible.
4. After above, you should ensure the circuit is functioning.

Regularly inspect the operating status, especially after lightning. Once the communication is off, electrician should check/replacethe SPD.

TS-SD5 INSTALLATION DIAGRAM



WARNING:

- 1, The device must be installed by electrically skilled person, conforming to national standards and safety regulations.
- 2, It is recommended that installation should be done under power off condition.