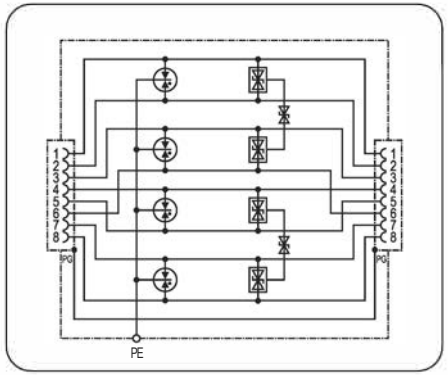
EtherNET Surge Protector SPD

POE-10G-DIN

Up to 10GBit/s High-Speed Networks Protector with 35mm DIN rail bracket included

CE Class EA/CAT6A

Basic circuit diagram:



• Technical data

Type		POE-10G-DIN
Nominal voltage	U_N	3.3V-
Max. continuous operating voltage	U_c	3.3V-
Max. continuous operating voltage (PoE)	U_c	58V-
Nominal current	I_L	1.5A
D1 Lightning impulse current (10/350μs)	I_{imp}	0.5kA (per line)
D1 Total lightning impulse current (10/350μs)	I_{Tmp}	4kA (total)
C2 Nominal discharge current (8/20μs)	I_n	10DA (line-line) 2.5kA (line-PG)
C2 Total nominal discharge current (8/20μs)	I_n	10kA (line-PG)
C2 Nominal discharge current (8/20μs) (PoE)	I_n	100A (pair-pair)
Voltage protection level at I_n	U_p	≤ 100V (line-line) ≤ 600V (line-PG)
Voltage protection level at I_n (PoE)	U_p	≤ 100V (pair-pair)
Voltage protection level at 1kV/μs	U_p	≤ 140V (line-line) ≤ 500V (line-PG)
Voltage protection level at 1kV/μs (PoE)	U_p	≤ 170V (pair-pair)
Frequency range	f_G	500MHz
Capacitance	C	≤ 15pF (line-line) ≤ 40pF (line-PG)
Data transmission rates	V,	10GBit/s
Operating temperature range		-40°C...+80°C
Connection input/output		RJ45 shield socket
Pinning		1/2, 3/6, 4/5, 7/8
Earthing via		Earthing screw
Mounting on		35mm DIN rail
Enclosure material		Aluminum
Test standards		IEC 61643-21; EN 61643-21; GB/T 18802.21
Certification		CE;RoHS

• Introduction

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1. **Summary**

POE-10G-DIN is installed at LPZ 0,-2 or higher interface or directly installed in the front near the equipment. Protection of applications in structured cabling according to class EA to 500MHz; e.g. industrial Ethernet, data distributors, digital camera systems, Power over Ethernet (IEEE 802.3 compliant to 4PPoE) and Ethernet-based interfaces in general. all the industrial ethernet 10M, 100M, 1GBit, 10GBit or higher network surge protection.

2. **Features**

- For protecting computer data transmission system, network system and so on
- Ideal for protecting Ethernet applications up to 10GBit/s
- Good discharge capacity, low voltage protection level
- Quick response, high transmission speed, low signal attenuation
- Metallic enclosure design is use RJ45 connectors, easy for installation
- Optional with DIN rail installation

3. **Application**

POE-10G-DIN is intended for use in offices and industries like 10GBit/s Ethernet, ATM or ISDN system, and VoIP, WiFi or telecom systems requiring protection. (e.g. industrial Ethernet, PoE applications, IP camera systems and so on)

4. **Operating environment**

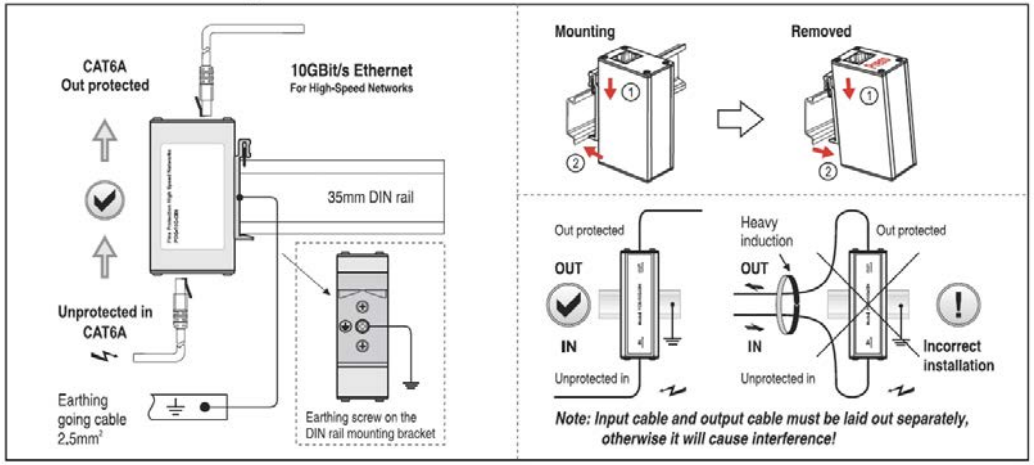
- Temperature: -40°C - +80°C;
- Relative humidity: < 95% (25°C)

• Installation instructions

1. This product is connected in series to the protected device.
2. Can be mounted on 35mm DIN rail 7.5mm depth
3. The "OUT" terminal should be connected to the protected device, the "IN" terminal connected to the source.
4. Earthing terminal must be connected to nearby earthing BusBar or the metal earthing enclosure of protected device.
5. After above precautions are taken, please test circuit for proper operation.

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

POE-10G-DIN installation diagram:



WARNING:

1. Device must be installed by a qualified electrician/low voltage technician, following all local and national standards and safety regulations.
2. It is recommended installation should be completed under power off condition.