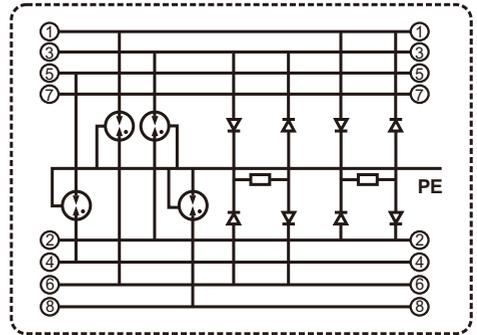# IP68 Outdoor Ethernet SPD

TH⊙R

TRSS-RJ45/8-E

For Gigabit Ethernet / PoE Network
system protector
Wall-mounted installation

RJ45/CAT6 NET Protector

with IP68 waterproof
resistant enclosure

CE

Basic circuit diagram:

• Technical data

Product model	TRSS-RJ45/8-E
In accordance with	IEC 61643-21, EN61643-21
Pin 1/2/3/6 Network input Voltage :	5Vdc
Pin 4/5/7/8 PoE Voltage:	48Vdc
Normal discharge current (8/20us) : In	5kA
Max discharge current (8/20us) : Imax	10kA
Voltage protection Level (V)	45V
Insertion loss	≤0.5dB
Response time	Instantaneous
Max. Transmission Speed	1000Mbps
Type of connection In/Out	RJ45
Connection Type	Series
Protective line	Data:1/2/3/6, PoE: 4/5/7/8
Operating temperature range	-40°C to +85°C
Environmental protection	IP68

• **Product introduction**

1.Summary

TRSS-RJ45/8-E is for installation at LZP 0_B-2 and higher interface or directly installed near the equipment, according to IEC standard for CAT 6 or Class E integrated wiring system, all the industrial Ethernet 10M, 100M, 1GBit network surge protection 802.3af/at.

2.Main character
- For protecting computer data transmission system, network system and so on
- Good discharge capacity, low voltage protection level
- Quick response, high transmission speed, low signal attenuation
- RJ45 connection, easy for installation

3.Application

Protect an outdoor PoE device, such as a security camera, against damage from electrostatic discharge, cable discharge or power surge.

4.Application environment
- Temperature: -40°C ~ +85°C
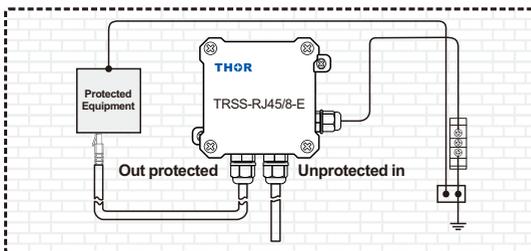- Relative humidity: ≤ 95% (25°C)

• **Installation instruction**

1. This product is connected in series to the protected device.
2. Wall-mounted installation.
3. Install waterproof connector RJ45 plug interface, for connection SPD's IN and OUT terminal RJ45 socket; The OUT terminal cable should be connected to the protected devices.
4. SPD's earthing terminal must be connected to nearby earthing BusBar or the metal earthing enclosure of the protected device.
5. After above, you should ensure the circuit is functioning.

Regularly inspect the operating status, especially afer lightning.
Once the communication is off, electrician should check/replace the SPD.
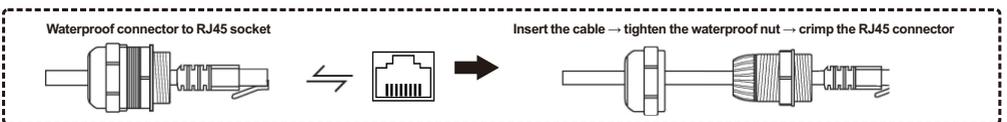
TRSS-RJ45/8-E installation diagram:

IP68 WATERPROOF PROECTION
FOR USE IN OUTDOOR

Note :

The installation diagram is for reference only; the actual device should be installed according to the site requirements.
Input cable and output cable must be laid out separately, otherwise it will cause interference!

Protected Equipment
TRSS-RJ45/8-E
Out protected **Unprotected in**

Waterproof connector to RJ45 socket

Insert the cable → tighten the waterproof nut → crimp the RJ45 connector

WARNING:

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