

Surge Protector Series

# User Manual

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Model: SP6PHO

High Performance Outdoor 1G PoE Surge Protector



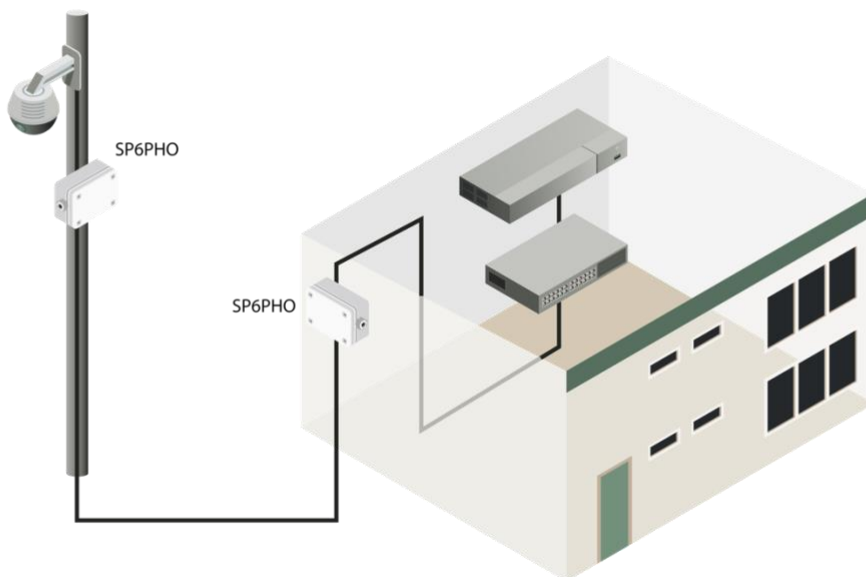
## Introduction

SP6PHO is an in-line surge protector designed to protect a valuable outdoor PoE (Power over Ethernet) device from high voltage surges, with network bandwidth up to 1000Mbps.

## Features

- Supports bandwidth up to 1000 Mbps.
- Supports IEEE 802.3 af, 802.3 at, 802.3bt PoE standard.
- Supports Mid-Span and End Span PoE.
- IP66 Waterproof rating.
- Response time less than 1 ns.

## Installation View



Note:  
To effectively protect the PoE device, ensure to connect the grounding wire to the ground.

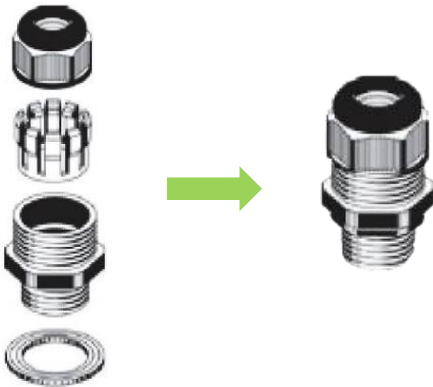
## Application:

- Outdoor PoE Cameras
- Outdoor APs
- Outdoor Network device
- Computer Control Rooms
- Server Farms
- Manufacturing Facilities
- Transmitter and Receiver Stations

## Installation Guide:

IP66 Waterproof Accessories		
#1		x 2
#2		x 2
#3		x 2
#4		x 2
#5		x 2
#6		x 1

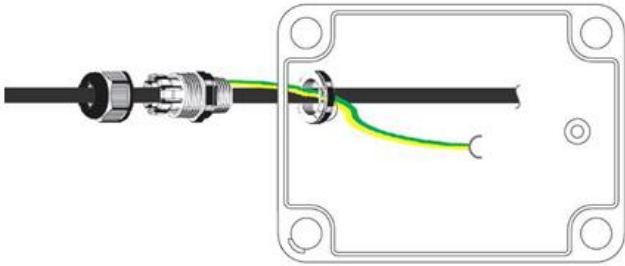
1. Assemble the waterproof connector.



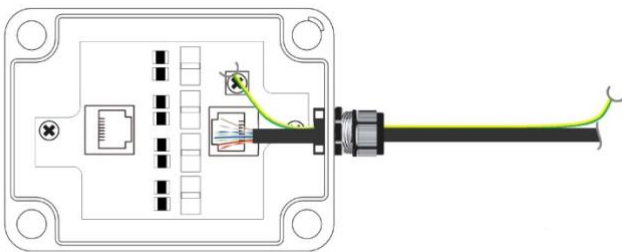
2. Put a network cable and grounding wire through the connector.



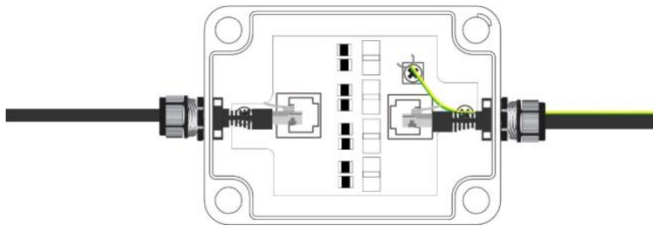
3. Put the cable set into the waterproof case and use the screw nut (#5) to fix it from inside.



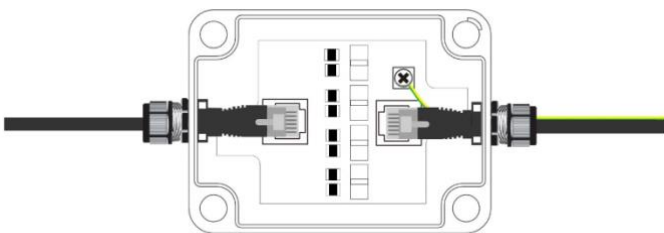
4. Use TIA/ EIA-568-B standard to make a RJ45 connector.



5. Connect the network cables to RJ45 connectors.

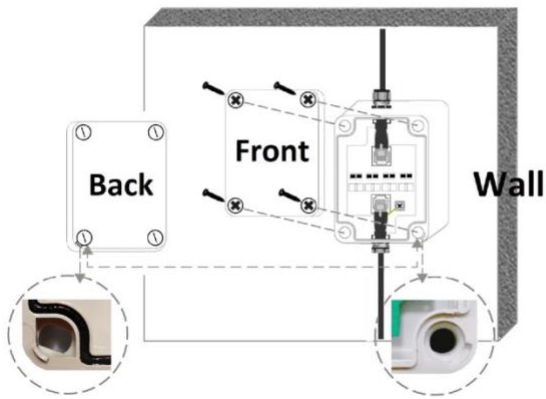


6. Fix the grounding wire.



Note :  
The position of grounding cable must be same as the left diagram.

7. Put on the cover and screws to firmly fix the waterproof case.



Note:  
Make sure the notch is matched.

## Specification

ITEM NO.	SP6PHO
Support	
Compliance	IEEE 802.3 af, 802.3 at, 802.3bt IEC 61000-4-5, IEC 61000-4-2, EN61000-4-5
Network Bandwidth	10/100/1000 Mbps
Response Time	Less than 0.7nS
ESD Protection	30KV (Air)/ 30KV( Contact)
Lightning Protection	10KA (8/20 us), 20KV (8/20 us)
Waterproof Rating	IP66
Ports & Interfaces	
Equipment End	1 x RJ45
Cable End	1 x RJ45
Ambient Temperature	
Operation	-40 to 70°C
Storage	-40 to 90°C
Humidity	Up to 95%
Physical Characteristics	
Dimensions	80 x 166 x 70mm
Weight	230g