



## LED Lighting Surge Protector Datasheet ZYS-P10H

### SPECIFICATION FOR APPROVAL

Supplier Name : Shenzhen Zhongyuan Technology Co., Ltd.

Supplier Part Number : ZYS-P10H

Supplier Material Code : 101-122106501

Supplier Warranty : Five Years Warranty

Packaging Method : 25PCS/Box ,16Box/CTN ,400PCS/CTN

Special Requirements : \_\_\_\_\_

#### Product Parameters :

| Input Voltage | Lightning Protection    | IP Rating | Connection Mode     | Certificate |
|---------------|-------------------------|-----------|---------------------|-------------|
| 277-480Vac    | L-N:10KV<br>L/N-PE:10KV | IP65      | Parallel Connection | CE/UL       |

Please send back a letter of acknowledgement to our company after sign and stamp.

| Customer sign and stamp |  | Supplier sign and stamp |  |
|-------------------------|--|-------------------------|--|
| Fiction                 |  | Admit                   |  |
| Inspect                 |  | Inspect                 |  |
| Approval                |  | Approval                |  |



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## ZYS-P10H



### Overview

ZYS-P10H series surge protector is a transient over-voltage protection device specially used for outdoor LED lighting system. It is mainly composed of thermal protection varistor and gas discharge tube device. It can be installed in LED lamp or perpetual lamp and connected with LED power driver to provide reliable surge protection. It can effectively prolong the service life of lamps and improve the stability of lamps and lanterns. The protection device must be metal oxide varistor type MOV (Metal Oxide Varistor).


### Features

- ◆ Applicable to class I or class II lamps
- ◆ Built in protection mode: L-N, L-PE, N-PE
- ◆ Built in thermal separation function for higher security
- ◆ Parallel isolation design, excellent protection performance
- ◆ Excellent surge resistance and very low residual voltage
- ◆ UL 1015 16#Electronic wire
- ◆ Small and convenient for embedded installation
- ◆ IP65 dust proof and waterproof grade

### Application

- ◆ Digital Signage
- ◆ Traffic Lighting
- ◆ Flood Lighting
- ◆ Tunnel Lighting
- ◆ Street lighting
- ◆ Wall Lamp
- ◆ Road Lighting
- ◆ Parking Lighting
- ◆ AC-LED Lighting

### Agency Approvals

| Agency   | Standard | Agency File Number |
|--|----------|--------------------|
|  | UL1449   | E502491            |

### Parameters

| Part Number  | ZYS-P10H                |
|--|-------------------------|
| Rated working voltage/Un ( VAC )                     | 277-480V                |
| Maximum continuous working voltage/MCOV/Uc ( VAC ) 1 | 510V                    |
| Rated load current/IL(A)                             | 5A                      |
| Nominal discharge current/In(kA)2                    | 5KA                     |
| Maximum Discharge Current/Imax ( kA ) 3              | 10KA                    |
| Surge Impulse Voltage/Uoc ( KV )                     | 10KV                    |
| Voltage Protection Level/Up(V)4                      | L-N,L-G/PE,N-G/PE≤1.8KV |
| Power Supply System                                  | TN                      |
| Waterproof grade                                     | IP65                    |
| Work environment                                     | -40℃~+85℃               |
| UL1449 test classification                           | Type 5                  |

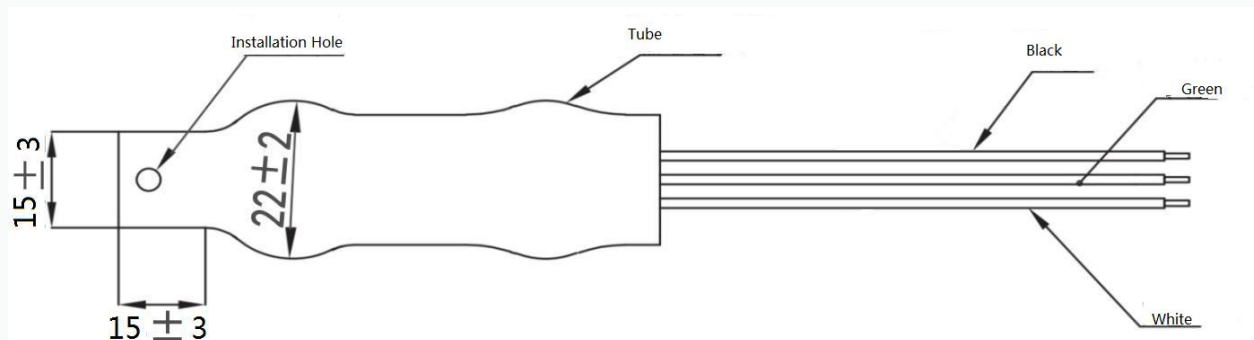
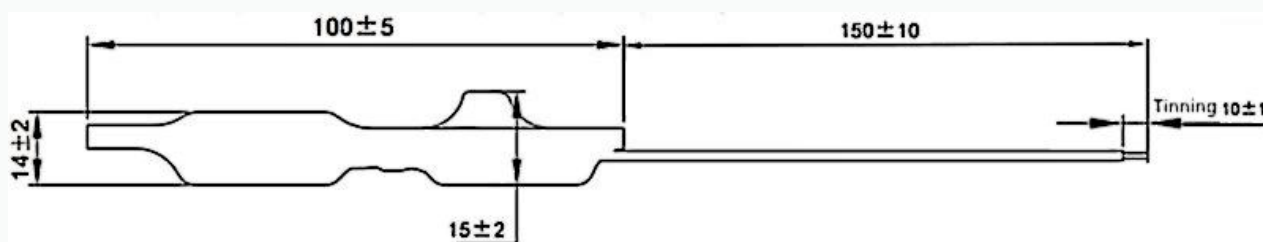


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### Notes:

- 1 Maximum continuous working voltage MCOV/UC(VAC): The maximum continuous working voltage continuously applied to the SPD line end
- 2 Nominal discharge current ( $I_n$ ) (kA): The measured value of SPD withstand capability; the measured value of 15 pulses using 8/20us current waveform.
- 3 Maximum discharge current (max) (kA): The maximum discharge current is the measured value of the SPD's maximum withstand capability, and the measured value of 2 pulses using 8/20us current waveform
- 4 Voltage protection level/ $U_p$ : IEC61643-11 voltage protection level, the maximum residual voltage measured value of the nominal discharge current ( $I_n$ ) under continuous application of 8/20u pulses, is the maximum voltage measured value after one round

### Dimension



### Diagram

