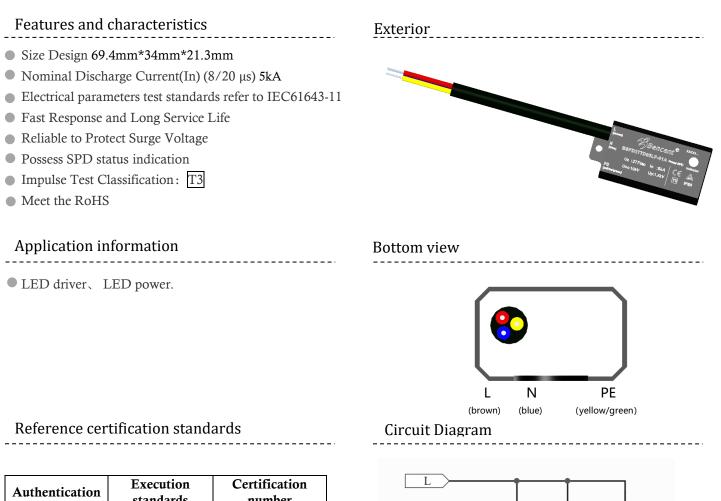


Bencent LED SPD

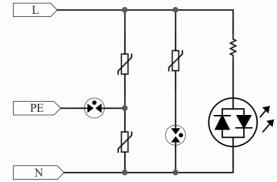
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| Authentication | Execution standards | Certification number |
|----------------|------------------------|-------------------------|
| CE | IEC61643-11 | To be certified |
| СВ | EN61643-11 | To be certified |
| TUV | EN61643-11 | To be certified |



Definitions

1、1.2/50 voltage impulse

Voltage impulse with a nominal virtual front time of $1.2\mu s$ and a nominal time to half-value of $50\mu s$.

2、8/20 current impulse

Current impulse with a nominal virtual front time of $8\mu s$ and a nominal time to half-value of $20\mu s$.

3、 Maximum Continuous Operating Voltage

Maximum r.m.s. voltage, which may be continuously applied to the SPD's mode of protection.



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4、 Voltage Protection Level (U_p)

Maximum voltage to be expected at the SPD terminals due to an impulse stress with defined voltage steepness and an impulse stress with a discharge current with given amplitude and waveshape.

5、Nominal Discharge Current (I_n)

Crest value of the current through the SPD having a current waveshape of 8/20.

6, mode of protection

An intended current path between terminals, that contains one or more protective components, for which the manufacturer declares a protection level.

7、 follow current interrupting rating $I_{\rm fi}$

Prospective short-circuit current that an SPD is able to interrupt by itself.

8. Degrees of protection provided by enclosure (IP code)

The extent of protection provided by an enclosure against access to hazardous parts, agains tingress of solid foreign objects and/or against ingress of water (see IEC 60529).

Electrical Parameter

| Product specifications | Relevant parameters | Unit |
|------------------------------------|---------------------|-----------------|
| Uo | 220 | V_{AC} |
| Uc | 277 | V _{AC} |
| I _N | 5 | kA |
| U _{oc} | 10 | kV |
| UP | 1.5 | kV |
| Modes of protection | L-N/L-PE/N-PE | / |
| Operating State / Fault Indication | Green /Off | |
| Housing material | UL94V-0 | |
| Dimensions | 69.4*34*21.3 mm | |
| Installation mode | Parallel connection | |

Storage and transportation parameters

| Product specifications | Relevant parameters | Unit |
|--|---------------------|----------|
| Operating and storage Temperature | (-40 ~ +85) | °C |
| Recommend Long-term Storage Condition | (-10 -40) ≤75% | °C RH |
| Degrees of Protection of enclosure (IP code) | IP65 | / |
| Altitude | 0 ~ 2000 | m |
| Installation location | Indoors/Outdoors | / |
| Weight(PCS) | ≈60 | g |



Bencent LED SPD

Part Numbering System

| | | | | | | | | | - |
|----------|------------|-----|---|-----------|---|------------|----|----------|---|
| <u>B</u> | <u>SPD</u> | 277 | D | <u>05</u> | L | <u>F</u> - | 01 | <u>A</u> | |

| (1) (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|---------|-----|-----|-----|-----|-----|-----|-----|
|---------|-----|-----|-----|-----|-----|-----|-----|

- (1) Bencent
- (2) Surge Protective Device
- (3) Maximum continuous operating voltage: $277V_{AC}$
- (4) SPD Classification: D
- (5) Nominal Discharge Current: 5kA
- (6) LED SPD
- (7) Full mode protection

(8) "01" means the special structure of this type

(9) "A" Indicates the upgraded version of the same series

of products

Surge capability test

| Test items | The magnitude of the current | Lifetime |
|-------------------------------------|------------------------------|----------|
| | 10kA | 2T |
| Short-circuit current (8/20µs) | 5kA | 40T |
| | 2.5kA | 120T |

Main Material List

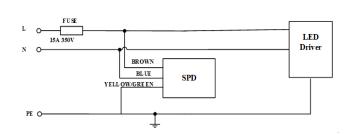
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Part NameMaterialsEnclosurePlasticPin materialCuThermal FusePlastic、Cu、EpoxyGDTCeramics、CuFilling MaterialEpoxy

Recommended connection method



| Testing items | Technical standards |
|-------------------------------|---|
| High Temperature Storage Test | Temperature: 85°C Time:2H |
| Low Temperature Storage Test | Temperature: -40°C Time:2H |
| Thermal Cycle | Temperature:-40~85°C Cycle:5 |
| Vibration | Frequency: 10Hz~55Hz Acceleration: 20m/s ² (2g) Direction of vibration: x/y/z Time: 30min |

Note: Up-screen program can be specified by customer's request via contacting Bencent service.

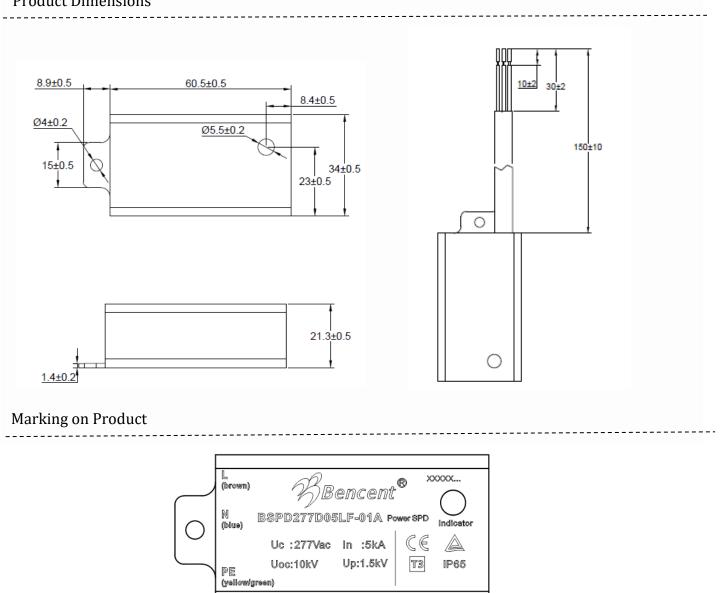


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Bencent LED SPD

Product Dimensions



Remark: xxxxx... A variable-length numeric code that represents the batch code of a product and is used only for information product tracking within the company.

Package Information

| Identification | Laser tag |
|-----------------------|---------------|
| Packing Case Size | 440*235*235mm |
| The whole case number | 180pcs |



Specifications are subject to change without notice. Customers should verify actual device performance in their specific pplications.