

## lightning strike counter



The surge and lightning strike monitor designed and developed by Sichuan Sunlight, which is specially designed for monitoring and counter for surge or lightning strike in the power supply system.

The equipment will count the peak current and save data on the counter whenever there's instantaneous surge or induced current from lightning strike entering the line, monitor the number of surges and lightning strikes on the line in real time in order to provide data reference for line safety.

The product adopts non-contact design and standard 35mm rail installation, the sensing module works by nearing the monitored line. The device uses a high-standard counter with stable and reliable performance. And it's sensitivity can be customized, the minimum induction current (8/20uS) of regular products is : 500A while the maximum induction current (10/350uS) is: 100kA in line with the technical requirements of global safety regulations.

### Applications

- Control box of power supply system
- Lightning rod
- Power supply system for industrial equipment
- Power supply system for electric machine room
- Centralized power supply system for buildings
- Power supply box for industrial control mechanical equipment
- Power supply system for remote monitoring equipment
- Power supply system for field exploration equipment

### Product Features

- Counter Display: LCD display screen
- Installation method: standard DIN-rail installation
- Design based on: IEC61643-11
- Design based on: UL14494
- Design based on: CQC
- Protection method: isolation monitoring technology
- Output method: non-contact modularization
- Screen printing technology: environmental protectively laser
- Industry-wide standardized design products
- Comply with ROHS and REACH

### General technical parameters

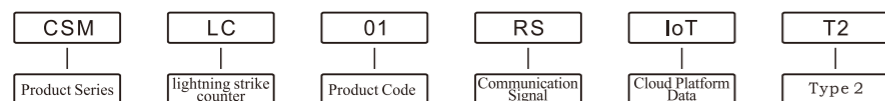
- Response time: <20ns
- Outer box material: engineering plastics
- Protection class: IP67
- Absolute altitude: <5000m
- Leakage current: <1uA
- Operating temperature: -40~+85°C
- Storage temperature: -40~+125°C

### Product specifications

| Part Number | Operating Voltage(V) | Type 1<br>Type2 | Imin<br>(8/20) | Imax<br>(8/20) | Iimp<br>(10/350) | Safety<br>CE GB/T |
|-------------|----------------------|-----------------|----------------|----------------|------------------|-------------------|
| SE-LSC-C100 | DC3-30V              | T2              | 500A           | 100kA          | X                | O O               |
| SE-LSC-C100 | DC3-30V              | T2              | 500A           | 100kA          | X                | O O               |
| SE-LSC-C100 | DC3-30V              | T2              | 500A           | 100kA          | X                | X O               |
| SE-LSC-C200 | DC3-40V              | T1              | 300A           | 200kA          | 15kA             | X O               |
| SE-LSC-C200 | DC3-40V              | T1              | 300A           | 200kA          | 25kA             | X O               |
| SE-LSC-C200 | DC3-40V              | T1              | 300A           | 200kA          | 50kA             | X O               |
| SE-LSC-C100 | DC3-30V              | T2              | 300A           | 100kA          | X                | O O               |
| SE-LSC-C100 | DC3-30V              | T2              | 300A           | 100kA          | X                | X O               |

### Material order no.:

e.g.: CSM-LC01



Note: The product will be affected by the environment, the test data are only laboratory reference out of laboratory.

### Customizable products

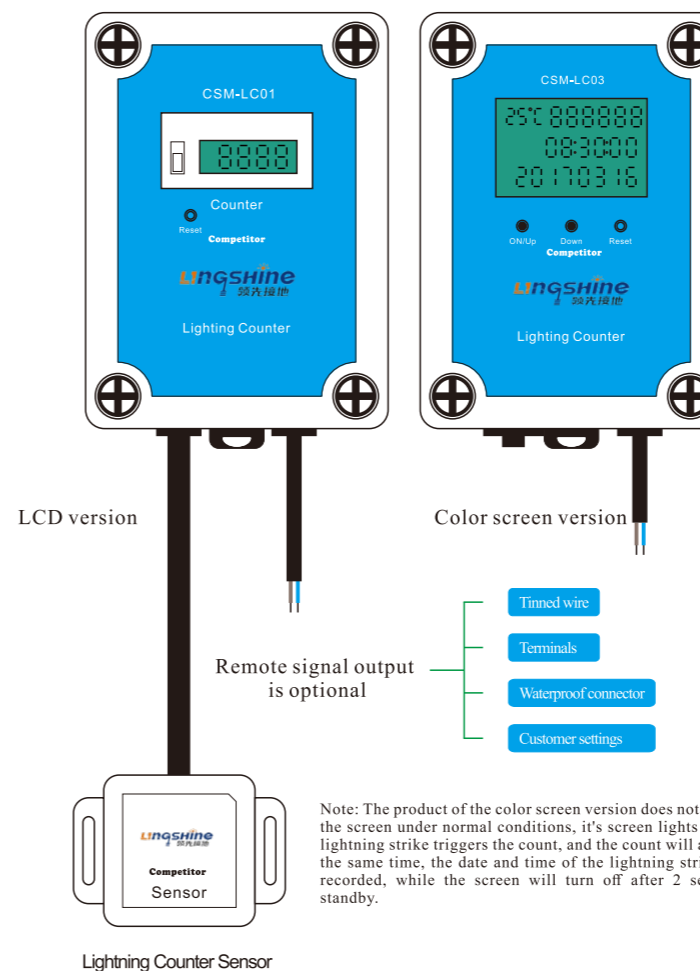
- Type 1 and Type 2 products are optional
- Product current flow can be customized
- Customizable product parameters

### Product packaging information

- 1pc/box regular product
- 8pcs/carton
- 2pcs/box customized products
- 16pcs/carton

\*The quantity of non-standard packaging may change, please subject to actual deliver.

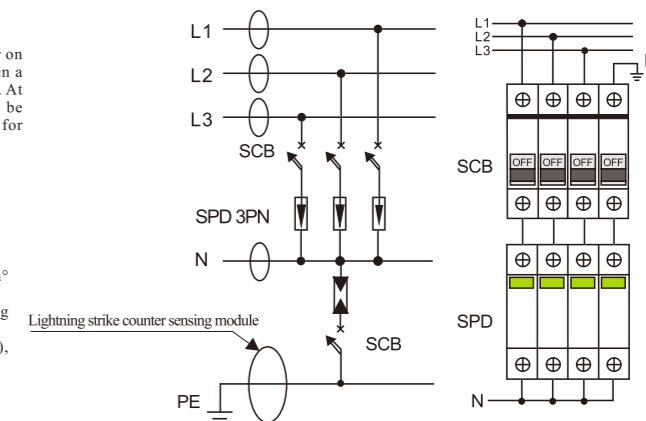
## Installation wiring diagram



- Remark:
- The lightning counter sensing module is connected to the host computer with a VDE2\*0.3mm² cable.
  - The lightning strike counter is installed on the track in a non-contact manner, and the sensing module is close to the monitored line and bound with ties.
  - The product meets the design requirements of Chinese regulations (COC and GB 18802.1), American regulations UL1449/CSA and European regulations TUV/CE.

### Lightning strike counter installation steps:

- Unbox the lightning strike counter, confirm there are characters on display, and the default display is "0" (but the color screen version has no display in the default state, it'll be activated when counts). It means that the power has been lost if LCD version has no display, and the counter needs to be replaced. The Reset button is the zero clearing button, which can be reset by only a light touch.
- Install the counter on the installation din-rail of the electric box, close to the power input terminal or the near end of the line which is about to be monitored, so the sensing module can be nearby.
- Put the sensing module close to the line to be monitored, use a tie to pass through the installation ear hole of the sensing module, and fix it on the monitoring line. The earthing down-lead can be fixed with the aluminum fittings supplied with the accessories.
- Check whether the din-rail installation buckle has been fastened and fixed, and whether the lightning sensing module has been correctly installed on the input line of power supply system of the monitored line.
- Unscrew the cover if there's no installation din-rail for the electrical box, and use the screw punching installation method. The screw protrudes from the screw hole of the cover to the lower part of the rear cover and install it at the pre-installed position. Tighten the screw and put the cover on, and tighten the cover screws.
- Check whether the screws on the cover plate are tightened. Please install a locking block at the end of the installation track to prevent it from falling off during transportation if the power supply box needs to be delivered after a long-distance.
- The lightning strike counter has a fully modular design, please do not disassemble it privately, otherwise the warranty will be voided, feel free to contact us if there are any doubts.
- Precautions: In order to prevent misoperations, functions such as reset and view are under the cover, for more operations the cover needs to be unscrewed. Kindly to inform if there's necessary to customize an external reset button or screen.



### Product dimension:

