

2023



COMPETITOR

正意防雷[®]
Competitor

深圳市正意浪涌防雷器制造有限公司

Shenzhen Competitor SPD Manufacturing Co., Ltd.

Company Profile



Competitor is a professional surge protection device manufacturer , the headquarter is located in Shenzhen,China. Our company dedicated to designing, manufacturing and selling all kinds of SPDs,they apply to power systems , IoT/AI equipments , communication base stations , construction machinery,Medical instruments, LED lighting and so on .

We are using the well-known brand componets with the high-quality . We have specialized in customized order for meet clients requirement .

Our marketing strategy is flexiable enough to adapt to different market situation. We also pass the UL/CSA TUV and CE certificate for overseas markets.quality is always our first priority to clients.Therefore we have a lot of clients, including ODM,OEM clients .

Hope that with our efforts, Competitor Inc. will also be your ideal cooperative partner .

Competitor's products have a number of patents and global market access certification. The products have passed UL, ETL, TUV, CE, CQC and other certification.

- RoHS&REACH Material Control Standard
- IEC61643/EN61643 Standard Test Laboratory
- Product passed UL,CSA,ETL,TUV,CE,CQC,GBT 18802.1 certification
- ISO9001-2015 International Standard Quality Management System Certification

Product Application

Smart City

Rail Transit

Equipment

Control Signal

Monitor Wiring

IoT Terminal Equip

Communication Base Station

AI System

Apparatuses

Power System

Ethernet Terminal

Medical Instrument

Electric Appliances

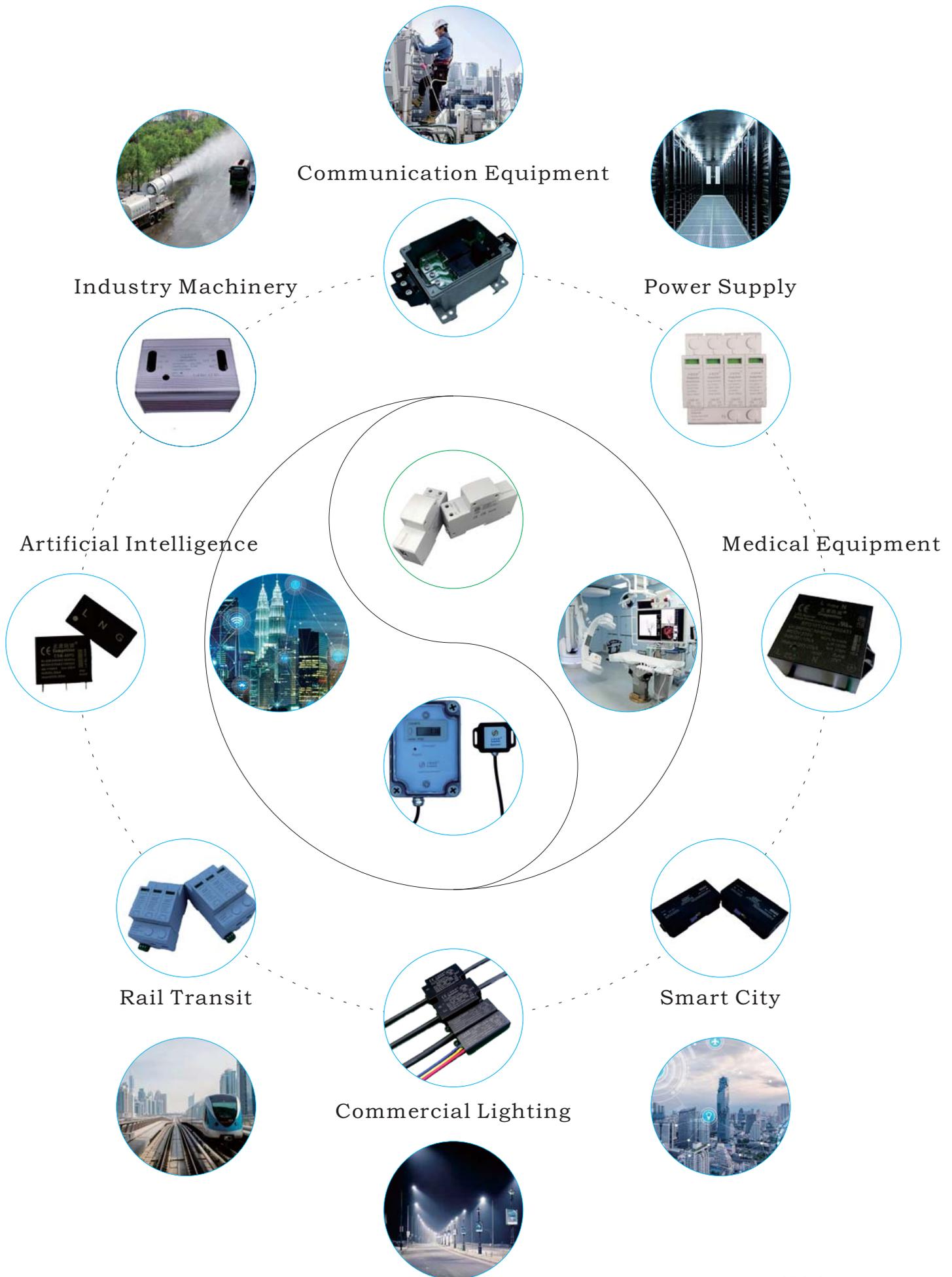
Traffic Light System

Main Business:

We're design,manufacture and sale surge protection device , centralized power distribution system surge and lightning protection overall solution.

Quality Detail Innovation Service

Take altruism as faith and bring continuous value to customers !



Lightning Counter



Our company has designed and developed surge and lightning monitoring equipment, specifically designed for monitoring and counting surge or lightning current in power supply systems, when there is an instantaneous surge or lightning induced current entering the power supply system, the lightning monitoring equipment counts the peak current and records it data is retained on the digital device to monitor the number of surges and lightning strikes on the line in real-time, providing data reference for line safety assurance. product adoption non-contact design.

Product Application

- Lightning Rod
- Power Supply System
- Industrial Equip System
- Electrical Room Power System
- Grounding Downlead
- Industrial Machinery
- Building Power Supply
- Lightning Protection System

Product Certification

- UL1449 X
- IEC62561-6 X
- CQC X
- GB/T 33588.6 O

* "O" -Certified, "X" -Under Certification.

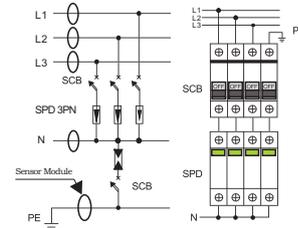
Product Feature

- Display: LCD/LED
- Installation: Track/Backboard
- Design based on: IEC62561-6
- Design based on: UL1449^{4th}
- Design based on: GB/T 33588.6
- Protection: Isolation monitoring
- Output Type: Non-contact module
- Silk-screen: Laser scanning
- Standardized design products
- RoHS&REACH compliant

General Technology Parameters

- Response Time: <20nS
- Flame Rating: UL 94-V0/V1
- Ingress Protection: IP67
- Above Sea Level: <5000m
- Leakage Current: <1uA
- Operating Temperature: -40-+85°C
- Storage Temperature: -55-+125°C

Product Application Diagram



Product Specification Parameters

Part Number Specification	Operating Voltage(V)	Type 1 Type2	I _{tc} (8/20)	I _{mcw} (8/20)	I _{mcw} (10/350)	Safety	
						IEC	GB/T
CSM-LC01	DC3-30V	T2	500A	100kA	X	X	O
CSM-LC02	DC3-30V	T2	500A	100kA	X	X	O
CSM-LC03	DC3-30V	T2	500A	100kA	X	X	O
CSM-LC01*	DC3-40V	T1	500A	100kA	100kA	X	O
CSM-LC02*	DC3-40V	T1	500A	100kA	100kA	X	O
CSM-LC03*	DC3-40V	T1	500A	100kA	100kA	X	O
CSM-LC01RS	DC3-30V	T2	500A	100kA	X	X	O
CSM-LC03IoT	DC3-30V	T2	300A	100kA	X	X	X

Ordering Part Number:

Example: CSM-LC03RSIoT2



Attention: The product is affected by the usage environment, and the test data is the laboratory reference value.

Customized Products

- Type1 and Type2 optional
- Customizable product range
- Customizable parameters

Product Package Information

- 1pcs/box Standard
- 8pcs/carton
- 2pcs/box Customized
- 16pcs/carton

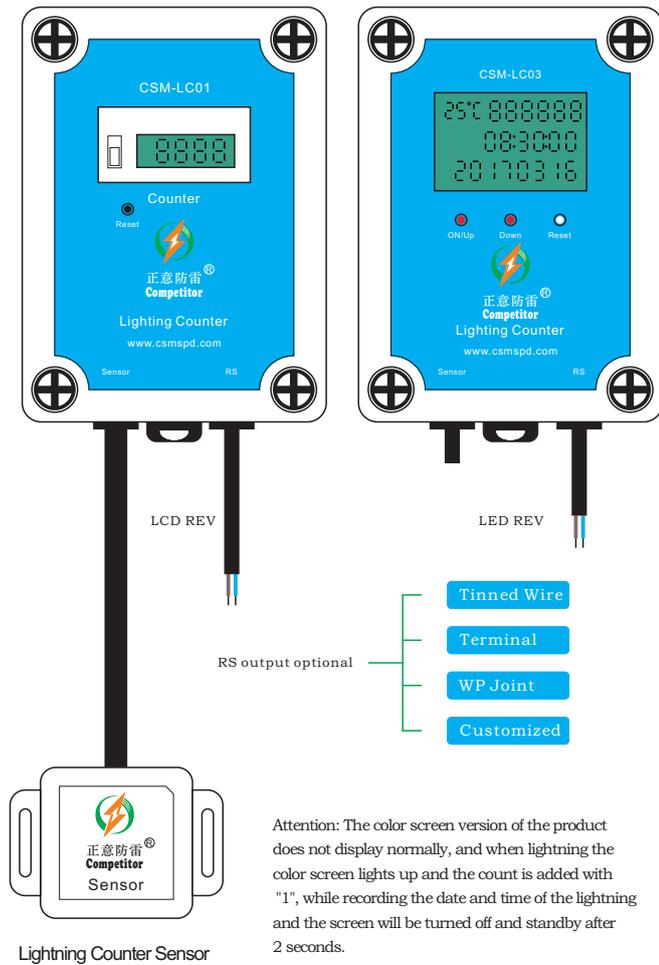
*The quantity of non-standard packaging may change, subject to actual delivery.

©2023 Competitor Inc.

Specifications are subject to change without notice.

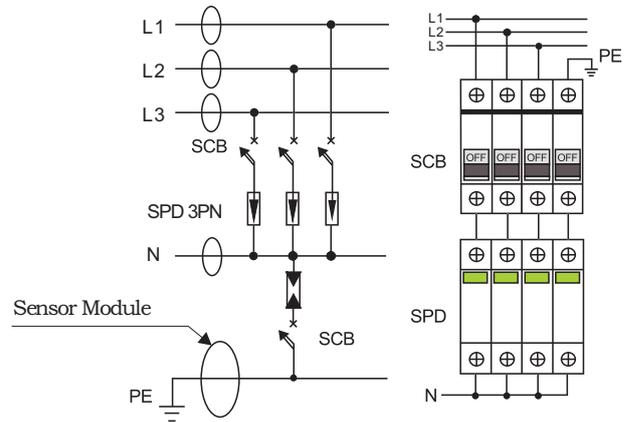
Revised:03.10.2023

Application Installation Wiring Diagram



Installation steps of lightning counter

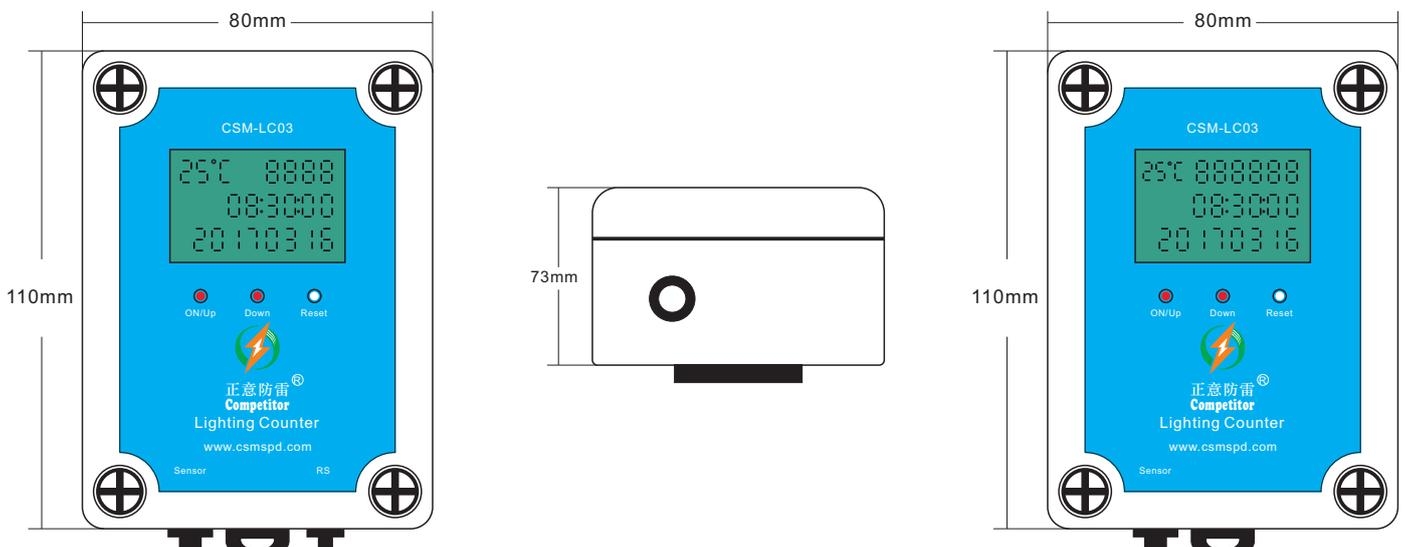
1. LCD version confirmation screen displays "0", and the LCD version confirmation screen displays the current time, date and temperature etc. .
2. Install the counter close to the tested line on the track, sensor module is fixed and installed close to the tested line.
3. Check the installation and fixation of the sensor module, and ensure that the counter is securely installed.
4. If there is no track installed, the counter cover can be opened and fixed with screws for installation.
5. If the tested circuit is a grounding downlead, please choose a backplane installation product.
6. If the tested line is a lightning rod, please select the ring belt installation type product.
7. Lightning counter is fully modular in design, please do not disassemble it without permission, otherwise the warranty will expire. if you have any questions, please contact us promptly.
8. Attention: to prevent accidental touch, the operating buttons of the standard product are covered by the cover. If you need to customize external reset, please contact us.



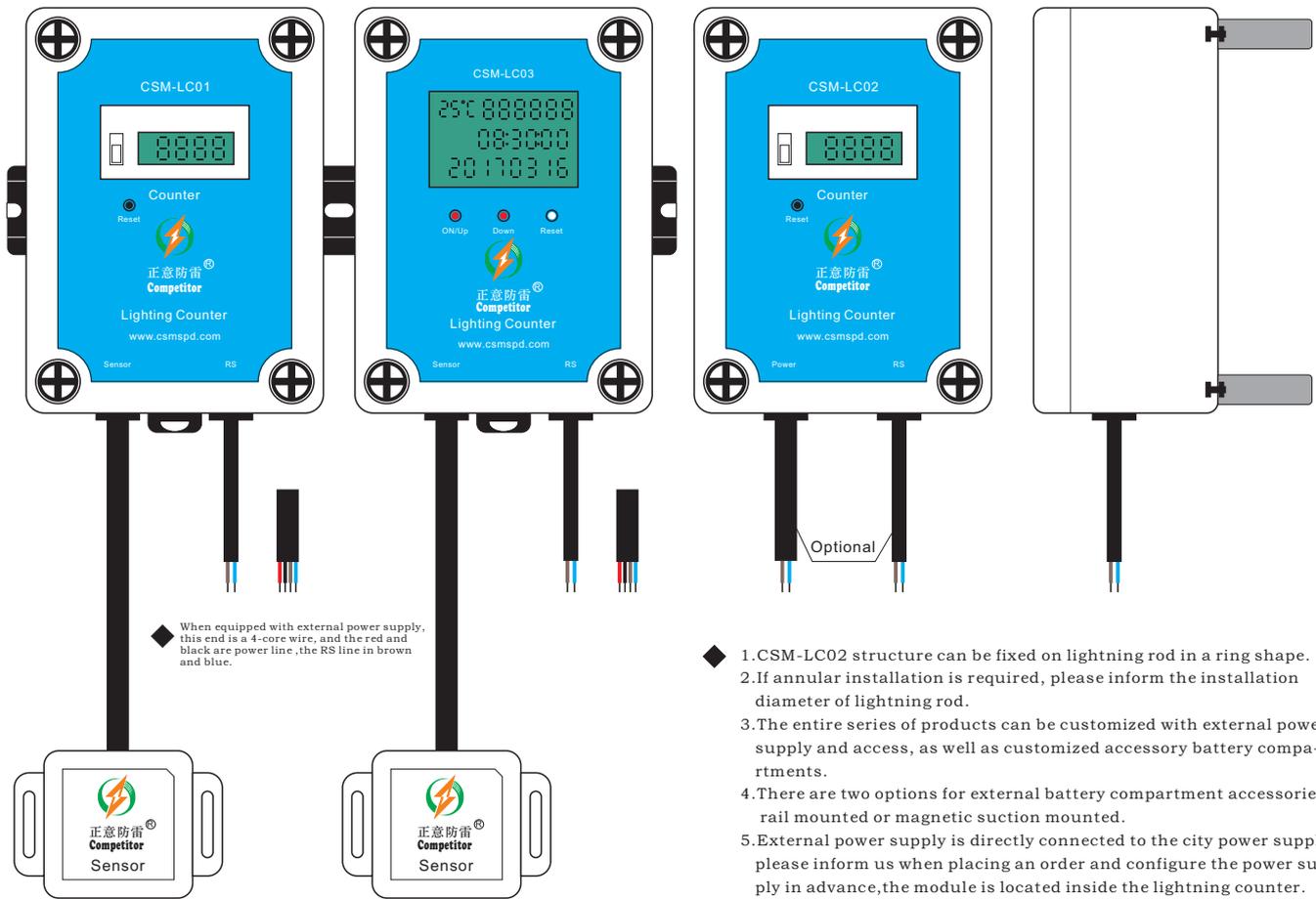
Remark:

1. Lightning counter sensing module is connected to the host using a VDE2 * 0.3mm² cable.
2. Lightning counter is installed non-contact on the track, with the sensing module close to the monitored line and bound with a tie.
3. Product meets the requirements of the Chinese standard (GB/T 33588.6-2020), American standard UL1449^{4th}, and European standard IEC62561.6:2011.

Product Dimensional Drawing

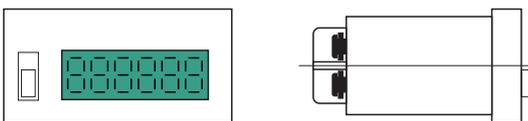


Example of Lightning Counter Adaptation Installation



Lightning Counting Device Accessories

LCD Display Component



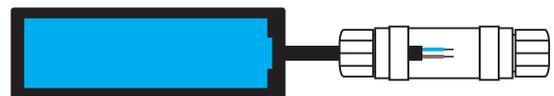
Audible and visual alarm device



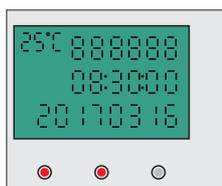
LED Version Track Type Battery Component



LED Version Magnetic Suction Battery Component



LED Display Component



Lightning Counter Data Processing Module



*Note: LED version component supports customized standby logos and brightness, as well as screen shutdown methods.

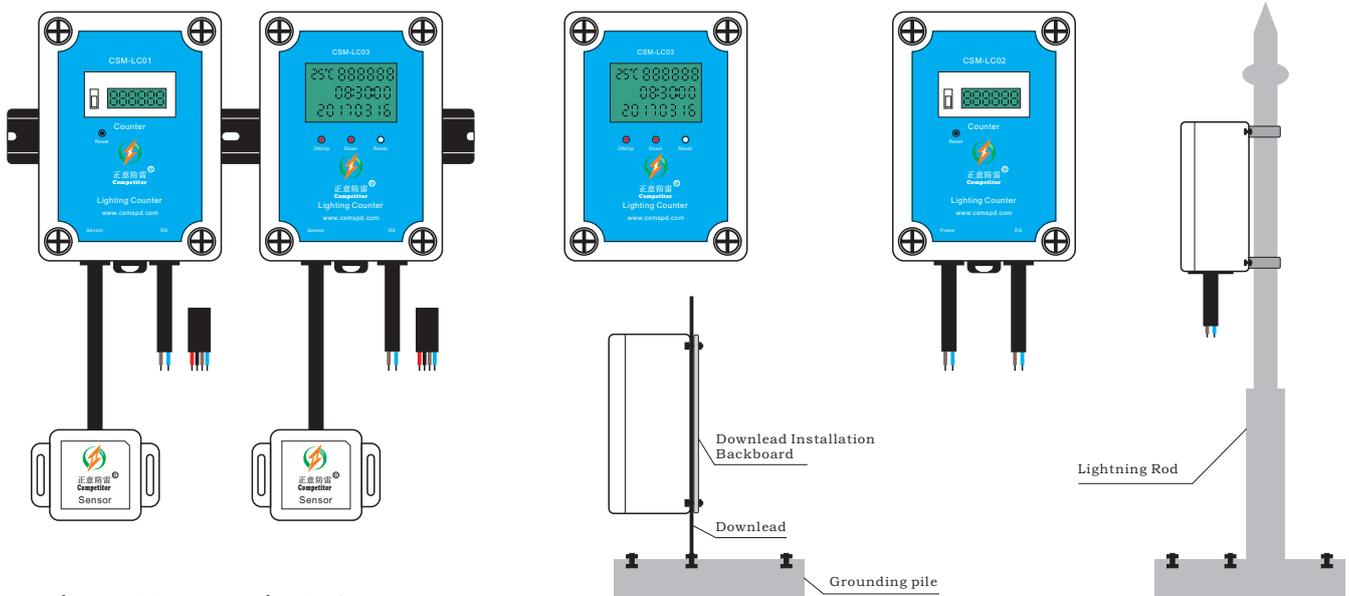
*Note: Please inform the original lightning counting device model when purchasing module accessories.

Product Design Reference Standards

- China Standard: GB/T 33588.6-2020 low voltage power lightning protection system testing
- European Standard: IEC62561-6:2011/EN662561-6 low voltage power lightning protection system testing
- American Standard: UL1449^{4th}/CSA C22.2 No.269.5-17 low voltage power lightning protection system testing

Product Installation Precautions

- 1.Product must be installed and maintained by a professional electrician for use in China.
- 2.Application of the product in other regions must comply with local industry standards or qualified personnel for installation and maintenance.
- 3.During product assembly, screws or other additional components are used to secure the product based on engineering design drawings or prototypes.



Product Use and Maintenance

- ◆ Lightning counter does not require special maintenance during normal use after installation. Due to the long-term exposure of the product to the air, in order to prevent remote false alarms caused by the failure of the lightning counter, its working status should be regularly checked, especially during frequent thunderstorms during the thunderstorm season. If any abnormalities are found, please replace the lightning counter of the same specification in a timely manner.
- ◆ When installing the lightning counter, please strictly follow the user manual or product specifications as a reference. If you have any questions, please call the manufacturer's technical support engineer. the on-site installation must be carried out by Professional personnel complete homework operations.

Product Transportation and Storage Environment

- 1.Please pay attention to waterproof and moisture-proof measures during transportation to avoid infiltration into the packaging and oxidation of the surge protector wire.
- 2.Be careful not to withstand strong impacts and high-frequency vibrations to avoid damaging the appearance and shape of the product and damaging the surge protector.
- 3.If the product has been placed for more than one year, it is necessary to re inspect the product according to a strict sampling plan and check whether the lead wire is oxidized.

Manufacturer Information

深圳市正意浪涌防雷器制造有限公司

Shenzhen Competitor SPD Manufacturing Co.,Ltd.

Tel: +86-755-89587560

Fax: +86-755-28504421

E-Mail: support@csmspd.com

Website: <http://www.csmspd.com>

Add: 351# Jihua Road Longgang Zone Shenzhen P.R.C.

©2023 Competitor Inc.
Specifications are subject to change without notice.
Revised:03.10.2023