

Surge Protective Device

C.M series signal SPD



Caution

- Please check if SPD's type and specification on the packages and the labels are consistent with the contract.
- Read this manual carefully before installation. Contact us if there is any question.
- Disassembling or repairing SPD is not allowed or it will cause malfunction.

Installation

SPD must be reliable grounding When it is used. SPD is mounted by DIN35mm rail. It is recommended to use copper or steel rail. SPD installation procedure is shown in figure 1.

1. Make the upside of SPD's bottom locked into the rail.
2. Push the downside of SPD's bottom into the rail.

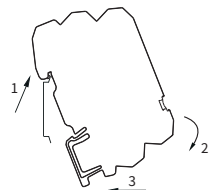


figure 1 Installation

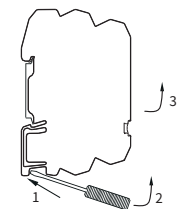


figure 2 Disassembly



Disassembly

Procedure of disassembly SPD is shown in figure 2.

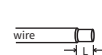
1. Insert a screwdriver into the downside lock of SPD.
2. Push the screwdriver downwards and then make SPD's buckle out of the rail.
3. Take SPD out of the rail.

Maintenance

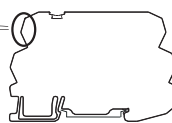
1. Check if the connections are correct and tight before powering on SPD.
2. SPD's quality is well controlled and strictly inspected before delivery. If non-functional ones are found during operation, please contact us early enough.

Connections

SPD adopts push-in wiring, which can connect copper wires with a cross-sectional area of $0.2 \sim 1.5\text{mm}^2$; the wire stripping length is 8 to 9 mm.



Push-in wiring
Stripping length:
 $8\text{mm} \leq L \leq 9\text{mm}$



Cross-sectional area of rail
grounding wire: $4\text{-}6\text{mm}^2$

Safety Certification

| Certification | Standards | Certification No. | Ex mark | |
|---------------|---|---------------------|----------------------|--|
| IECEX | IEC 60079-0:2017 Ed. 7 IEC 60079-11:2011 Ed. 6 | IECEX CSAE 22.0068X | Ex ia IIC T6...T4 Ga | |
| ATEX | EN IEC 60079-0:2018 EN 60079-11:2012 | CSANe 22ATEX1156X | Ex ia IIC T6...T4 Ga | |
| CCC | GB/T 3836.1-2021 GB/T 3836.4-2021 | 2023322304004998 | Ex ia IIC T6...T4 Ga | |
| C-5T2-EX.M | Ui=6V | Ii=500mA | Pi=5.32W | T4:-40°C~+80°C T5:-40°C~+70°C T6:-40°C~+50°C |
| C-24B2-EX.M | Ui=30V | Ii=500mA | Pi=5.32W | |

The output electrical parameters (Uo, Io, Po, Co, Lo) are the same as those of the associated equipment (Uo, Io, Po, Co, Lo). Under certain extreme circumstances, exposed plastic and unearthed metal parts of the enclosure may store an ignition-capable level of electrostatic charge. Therefore, the user/installer shall implement precautions to prevent the build-up of electrostatic charge, e.g. locate the equipment where a charge-generating mechanism (such as wind-blown dust) is unlikely to be present and clean with a damp cloth.

Product use conditions and precautions:

1. The product must be matched with related equipment to form an intrinsically safe explosion-proof system before it can be used in hazardous locations where explosive gas mixtures exist on site. The system wiring must also comply with the requirements of the operating instructions of the surge protector and the associated equipment. The terminal

2. The user shall not replace the parts of the product, and shall work with the manufacturer to solve the faults to prevent the occurrence of damage.
3. The installation, use and maintenance of the product should also comply with the product manual, GB 3836.13-2021 "Explosive environment Part 13: Repair, overhaul, repair and modification of equipment", GB/T 3836.15-2017 "Explosive environment No. 15 Part: Design, selection and installation of electrical devices", GB/T 3836.16-2017 "Explosive environment Part 16: Inspection and maintenance of electrical devices", GB/T 3836.18-2017 "Explosive environment Part 18: Essence Relevant provisions of "Safety Electrical System" GB 50257-2014 "Code for Construction and Acceptance of Electrical Installations in Explosion and Fire Hazardous Environments for Electrical Installation Engineering".

Environmental Declaration

Name and content of harmful substances

| Part Name | Harmful Substance | | | | | |
|-----------------------|-------------------|----|----|------|-----|------|
| | Pb | Hg | Cd | Cr6+ | PBB | PBDE |
| Housing and terminals | × | ○ | ○ | ○ | ○ | ○ |
| Circuit board | × | ○ | ○ | ○ | ○ | ○ |

This form is prepared in accordance with the provisions of SJ / T 11364.
○: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB / T 26572.

×: Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB / T 26572 and there is currently no mature alternative method in the industry. The concentration of hazardous substances is within the RoHS directive exemption clauses range, which meets the eco-friendly requirements of the EU RoHS directive.



Indicates that the product contains certain toxic and harmful substances, and it can be used within the eco-friendly period, and should enter the recycling system after the environmental protection period is exceeded.

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