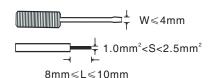
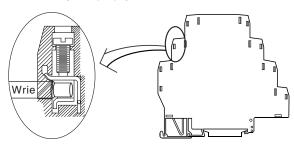
Connections

- (1). The SPDs adopt screw terminals;
- (2). The wires are single or multiple cables with a cross section area of 1.0mm²-2.5mm²;
- (3). The length of bared wires is about 8mm, locked tightly by M3 bolt.

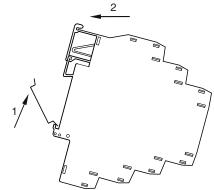




Installation

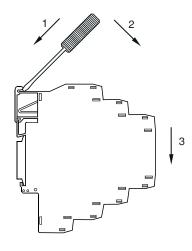
This SPD is designed for mounting on 35mm DIN guide rail. Installation according with the following steps:

- (1). Make the upside of the SPD locked into the guide rail;
- (2). Push the downside of the SPD in the rail.



Disassembly

- (1).Insert a screwdriver (its edge length≤6mm)into the downside metal lock of the SPD;
- (2). Push the screwdriver upwards to open the metal clip;
- (3). Take the SPD out of the guide rail.



Maintenance

- (1). When using the SPD, you must have a reliable grounding.
- (2). Check again wiring and polarity are correct before SPD energizing.
- (3).The products were test strictly before leaving factory. If users find any abnormalities in the module, please contact the nearest agent or our company.
- (4).In 5 years from the delivery date, if the product works improperly during normal operation, we will repair or replace it without payment.

CHENZHU User Manual

Surge Protective Devices

CZLB-EX series





SHANGHAI CHENZHU INSTRUMENT CO.,LTD.





- Please check whether the product type on the package accords to the ordering contract;
- Read this manual carefully before installation or use. If there is something unclear, you can dial our technic support hotline;
- Prevent friction, avoid electrostatic;
- Users are not allowed to dismantle or repair the SPD otherwise it will induce malfunction.

CZ. CZLB-EX. 11(S)E-3.7/15.05

Summarize

CZLB-EX series SPD is mainly used to protect the transmitters, switches, frequency signal communication equipments. DC power supply,etc. Twopart design comprising a base part and a protection module.

Features:

- (1). Easy replacement of protection modules.
- (2). Space-saving: case width of only 7.6 mm.
- (3). Earthing via DIN Rail to simplify field wiring.

Specification

Type	CZLB-5-EX(T2) CZLB-5-EX(R3)	CZLB-24-EX(B2) CZLB-24-EX(B3)
Rated operating voltage Un	5VDC	24VDC
Max.operating voltage Uc	6VDC	32VDC
Leakage current	<3uA	<1uA
Protection level Up(line to line)	40V	60V
Protection level Up(line to ground)	600V	600V

Rated discharge current In: 5kA(8/20us) 10kA(8/20us) Max. discharge current Imax: Total discharge current Itotal: 20kA(8/20us) Resistance per path: $1\Omega/line$ Voltage bandwith (-0.5dB): 10MHz Max.operating current IL: 250mA Response time: <1ns

Ambient temperature: -40℃~+85℃ Relative humidity: 10%~90%

Dimensions(L x W x H): 92.4mm×7.6mm×97.7mm

Connections: Screw connection

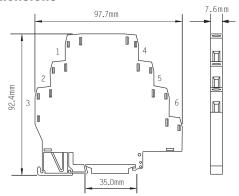
Max.sectional area: 2.5mm² Installation: DIN 35mm Test standards: GB/T 18802.21

IEC 61643-21

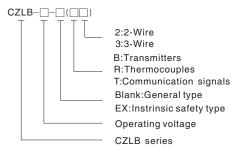
Lightning protection performance test: Shanghai lightning protection

centre

Dimensions



Model designations



Safety cerfication

National Quality Supervision and Inspection Center for Products of **Process Automation Instrumentation**

Cerfication standards

GB/T 20438.1(IEC 61508-1)

GB/T 20438.2(IEC 61508-2)

GB/T 18802.21(IEC 61643-21)

Functional safety level:SIL3

Explosion-proof parameters

National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation(NEPSI).

EX-standards:

Ex ia IIC T4~T6 Ga

Cerfication standards:

GB3836.1-2010(IEC 60079-0)

GB3836.4 -2010(IEC 60079-11)

Explosion-proof parameters: Ci≈0uF Li≈0mH

Ui=6V(CZLB-5-EX) GYB12.1381X li=250mA Ui=29V(CZLB-24-EX) GYB12.1383X Ii=100mA

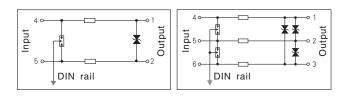
Pi=1.3W(-40°C~+40°C)

Pi=1.0W(-40°C~+60°C)

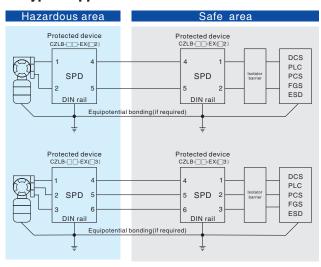
Pi=1.2W(-40°C~+60°C) T5

Pi=1.0W(-40°C~+60°C)

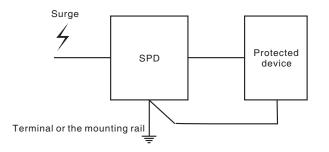
Function principle diagram



Typical application



Earthing system



Note:Put the line to connect SPD grounding and the protected equipment shell, then If the protected equipment without a grounding end, only make the surge protective devices connected to earth ground. The grounding wire should adopt the diameter of 2.5mm² cable. When you connected to grounding by terminal or the mounting rail, the grounding wire should adopt the diameter of 4~6mm² cable.