

Surge Protective Device

CZLB series



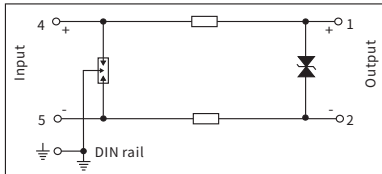
Before using the product, please read this manual carefully and keep it well.

Caution

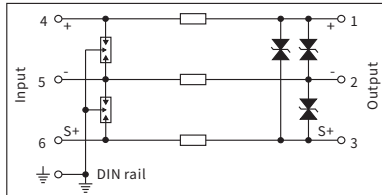
- Please check whether the product type on the package accords to the ordering contract.
- Read this manual carefully before installation.
- If there is any questions ,contact us early enough.
- Disassembling or repairing SPDs are not allowed or it will cause malfunction.

Schematic Diagram

CZLB-5(T2)
CZLB-24(B2)

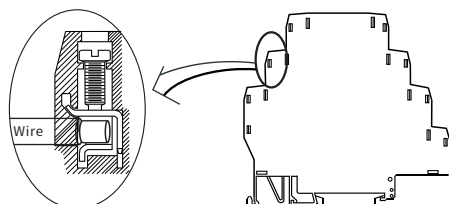
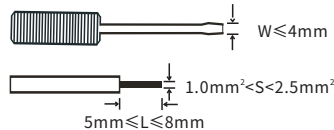


CZLB-5(R3)
CZLB-24(B3)



Connections

- (1) SPDs adopt M3 screw terminals.
- (2) Multi strand cables with a cross section area of 0.5mm² ~2.5mm² or single strand cable with a cross section area of 0.5mm² ~4mm² can be used. For grounding, multi strand cables with a cross section area of 2.5mm² should be used.
- (3) If it is grounded through DIN rail, multi strand cables with a cross section area of 4mm² ~6mm² should be used.
- (4) The stripping length of cables should be 5~8mm, which will be tightened by the screws.



Summarize

Signal and DC power SPDs are used for protecting 2 or 3-wire transmitters, switches, frequency signals, communication devices, RTD, TC, 24VDC devices on site and in the control room from being damaged by surge without interfering signal transmission.

Main features:
Space-saving width of just 7.6mm.

Ground through terminal or DIN rail.
High-bandwidth, low insertion loss, suitable for all kinds of signals.

Ex Parameters

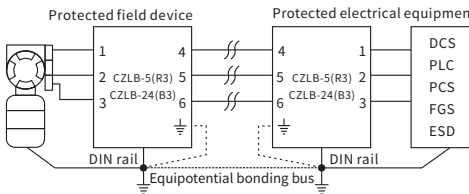
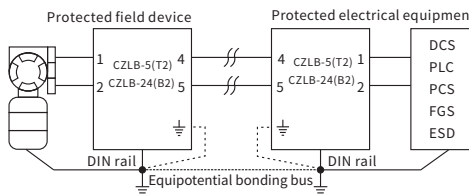
Ex-making: Exia[Ga] II CT4~ T6 Gb
China National Quality Supervision and Test Centre for Explosion Protected Electrical Products

Test standards:
GB3836.1(equal to IEC 60079-0)
GB3836.4(equal to IEC 60079-11)

Ex parameters: (see the explosion-proof certification)
Cert.No: CNEx17.2374X

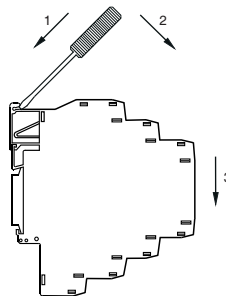
CZLB-5(T2)/(R3)	Ui=6V	Ii=500mA	Pi=0.75W	T4:-40°C~+80°C
CZLB-24(B2)	Ui=28V	Ii=100mA	Pi=0.7W	T5:-40°C~+75°C
CZLB-24(B3)	Ui=28V	Ii=50mA	Pi=0.35W	T6:-40°C~+60°C

Typical Application



Dismounting

- (1) Insert a screwdriver (with an edge length ≤ 6mm) into the downside metal lock of the SPDs.
- (2) Push the screwdriver downwards as shown in the figure below and then rise up the bottom of the SPDs' metal buckle.
- (3) Take the SPDs out of the rail.



Technical Data

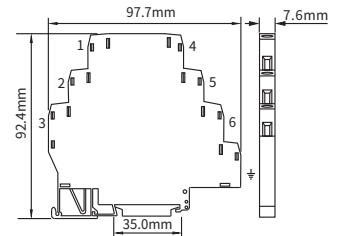
Parameter	Type	CZLB-5(T2) CZLB-5(R3)	CZLB-24(B2) CZLB-24(B3)
	Rated operating voltage Un		5VDC
Max. operating voltage Uc		6VDC	32VDC
Leakage current		<10μA	<1μA
Protection level Up (line to line)		40V	60V
Protection level Up (line to ground)		600V	600V

Bandwidth(-0.5dB): 10MHz
Resistance(per line): 1Ω
Rated operating current I_r: 500mA
Temperature range: -40°C~+70°C
Relative humidity: 5%~95%
Connections: Screw connection
Max. sectional area: 2.5mm²
Installation: DIN 35mm
Dimensions(L x W x H): 92.4mm x 7.6mm x 97.7mm

Order Number

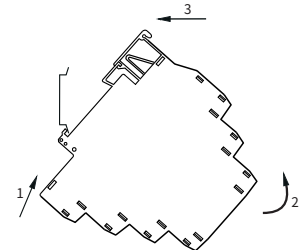
Type	order number
CZLB-5(T2)	7045387
CZLB-5(R3)	7066195
CZLB-24(B2)	7062416
CZLB-24(B3)	7025509

Dimensions



Mounting

- This series SPD is designed for mounting on 35mm DIN guide rail.
- (1) Make the downside of the SPDs' bottom locked into the rail.
 - (2) Push the upside of the SPDs' bottom in the rail.
 - (3) Suggest using copper or steel guide rail.



Maintenance

- (1) Check if the connections are correct and tight before powering on SPDs.
- (2) SPDs' quality are well controlled and strictly inspected before delivery. If non-functional ones are found during operation, please contact us early enough.
- (3) Within 5 years of delivery, any problems occurred during normal operations can get treatments free.

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