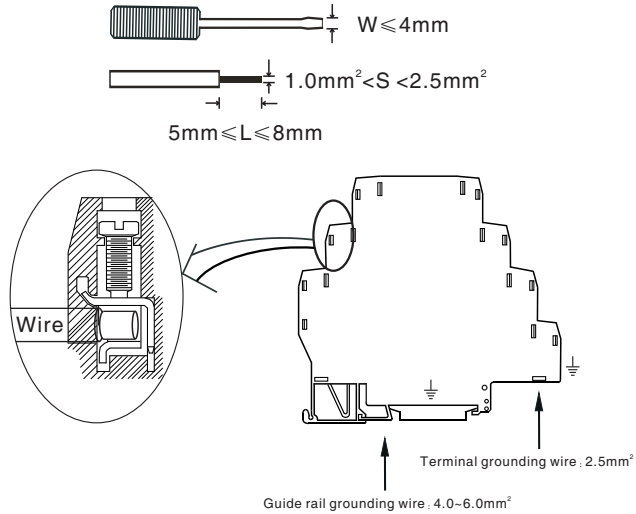


## ■ Connections

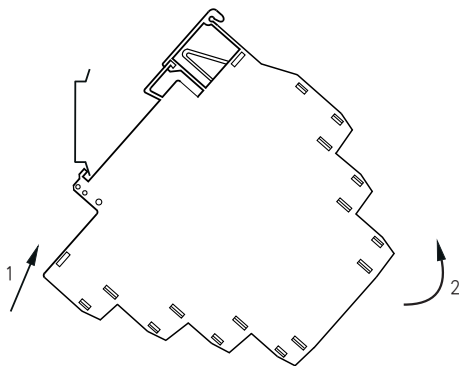
- (1).The SPDs adopt M3 screw terminals;
- (2).The wires are multiple cables with a cross section area of  $0.5\text{mm}^2 \sim 2.5\text{mm}^2$  or single cable about  $0.5\text{mm}^2 \sim 4\text{mm}^2$ , the grounding terminal should connect multiple cables with a cross section area of  $2.5\text{mm}^2$ ;
- (3).If grounding by guide rail, guide rail should connect multiple cables with a cross section area of  $4\text{mm}^2 \sim 6\text{mm}^2$ ;
- (4).The stripping length is about 5~8mm,locked tightly by bolt.



## ■ Installation

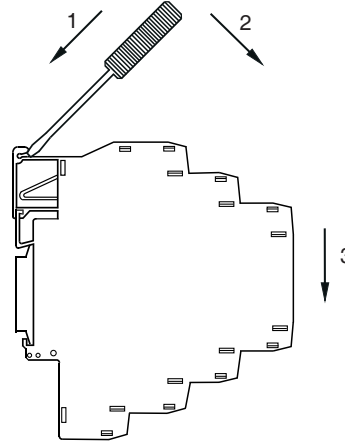
SPD must be reliably grounded. This series SPD is designed for mounting on 35mm DIN guide rail.

- (1).Make the downside of the SPD's bottom locked into the guide rail;
- (2).Push the upside of the SPD's bottom in the rail;
- (3).Suggest using copper or steel guide rail.



## ■ Disassembly

- (1).Insert a screwdriver (its edge length  $\leq 6\text{mm}$ ) into the downside metal lock of the SPD;
- (2).Push the screwdriver upwards, as shown in figure, then rise up the bottom of the SPD's metal guide rail card;
- (3).Take the SPD out of the 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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## Surge Protective Devices

CZLB-24P



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

### ⚠ Caution

- 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.

## ■ Summarize

The CZLB series intrinsically safe type SPD is used for protecting measuring and control circuits, bus systems and communication systems from damage of lightning surge voltage or operating overvoltage.

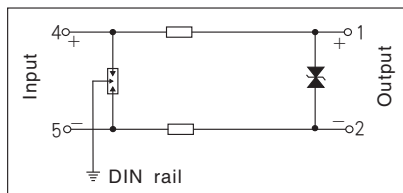
### Main features:

- Space-saving width of just 7.6mm
- Ground through terminal or DIN rail
- Convenient and reliable by screw connection
- High-bandwidth, low insertion loss, suitable for all kinds of signals

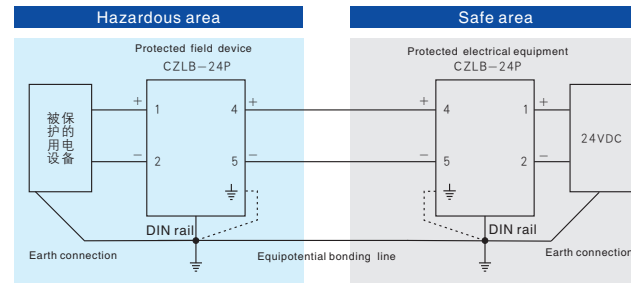
## ■ Technical data

Type	CZLB-24P
Rated operating voltage $U_n$	24VDC
Max. operating voltage $U_c$	36VDC/60VDC
Rated operating current $I_L$	10A
Response time	<1ns
Nominal discharge current $I_n(8/20\mu s)$	5kA
Max. discharge current $I_{max}(8/20\mu s)$	10kA
Total discharge current $I_{total}(8/20\mu s)$	20kA
Protection level $U_p$ (line to line)	85V
Protection level $U_p$ (line to ground)	600V
Leakage current	<20 $\mu$ A
Temperature range:	-40°C~+85°C
Relative humidity:	10%~90%
Dimensions(L x W x H):	92.4mm×7.6mm×97.7mm
Connections:	Screw connection
Max.sectional area:	2.5mm <sup>2</sup>
Installation:	DIN 35mm

## ■ Function principle diagram



## ■ Typical application



## ■ Dimensions

