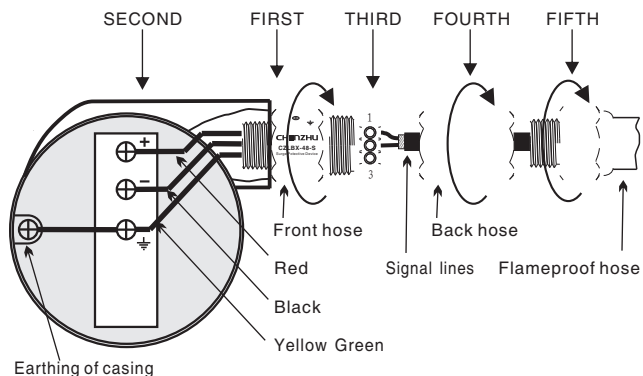
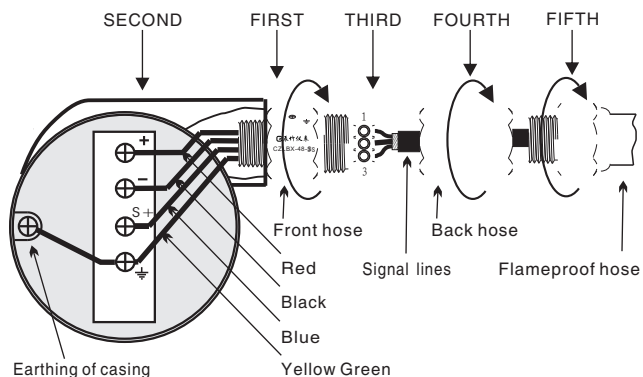


■ Connections

CZLBX-48-S installation steps:



CZLBX-48-S3 installation steps:



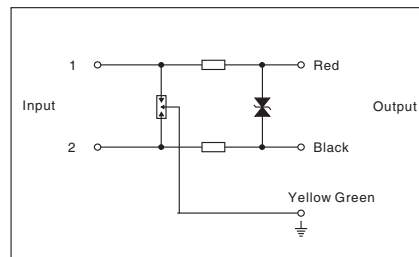
Installation steps:

- (1).Put SPD(with wire) inside the screw thread interface of the protected equipment.
- (2).Connect the red, black, blue and yellow green lines to the corresponding terminal.
- (3).Connect shield twisted pair(STP) from control room to terminal 1, 2, 3 of SPD.
- (4).Connect the back hose of SPD.
- (5).Connect the flameproof hose.

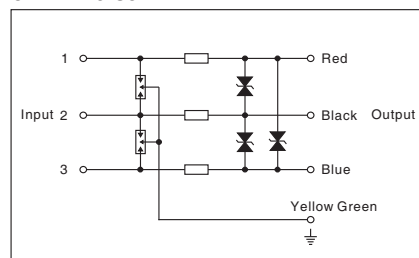
Note:The wires connect SPD to protected device should be as short as possible, and reduce bending. When use the earthing terminal connect to ground, please cut the yellow-green lines and keep it alignment.

■ Function principle diagram

CZLBX-48-S



CZLBX-48-S3



■ Maintenance

- (1).Before using, SPD must have a reliable grounding.
- (2).Before using, please check again whether the module's EX-proof rating accords with the operating ambient, and wiring and polarity are correct. If working with flameproof transmitter, live action is not allowed.
- (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.



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Surge Protective Devices

CZLBX-48-S series



⚠ 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

CZLBX-48-S series SPD are part of field-installed. There are mainly used to protect device such as transmitters, solenoid valve flowmeter, RS232, RS485 and other equipments. A main objective is to avoid damage caused by lightning strikes. The connecting ground by Yellow-Green wires or earthing terminal with the shell. It can be used in 0 zone, 1 zone, 2 zone, II A, II B, II C, T4 ~ T6 hazardous zone.

(1). No signal attenuation.

(2). Maximum discharge current is 20kA.

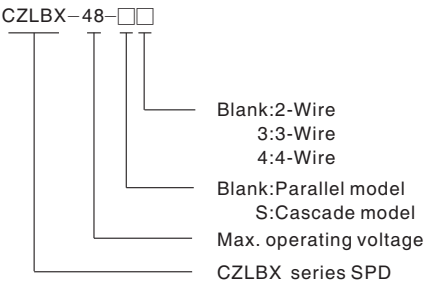
(3). Get double certifications which are Intrinsic Safety and Flame proof, suitable for every occasions.

(4). Choose a variety of thread sizes for your require, suitable for all types of equipment.

■ Specification

Rated operating voltage Un (DC):	24V
Max. operating voltage Uc (DC) :	48V
Rated operating current I _L :	400mA
Rated discharge current I _n (8/20us):	10KA
Max. discharge current I _{max} (8/20us):	20KA
Total discharge current I _{total} (8/20us):	40KA
Protection level Up(8/20us, line to line):	60V
Protection level Up(8/20us, line to ground):	600V
Response time (line to line):	1ns
Response time (line to ground):	100ns
Bandwidth(-0.5dB):	2MHz
Resistance per path:	2.2 Ω
Leakage current:	<2uA
Temperature range:	-40℃ ~ +85℃
Relative humidity:	5%~95%
Material:	304 stainless steel
Degree of protection:	IP65
Test standards:	GB 18802.21 IEC 61643-21
Lightning protection performance test:	Shanghai lightning protection

■ Model designations



Customer can specify the thread standards:

- ☐ M20×1.5(International)
- ☐ 1/2" NPT(American)
- ☐ 3/4" NPT(American)
- ☐ Pg13.5(German)
- ☐ G1/2"(British)
- ☐ G3/4"(British)

■ Safety certification

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

Certification 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

China National Quality Supervision and Testcentre for Explosion Protected Electrical Products(CQST).

EX-standards:

- Ex ia IIC T4~T6 Ga
- Ex d IIC T4~T6 Gb

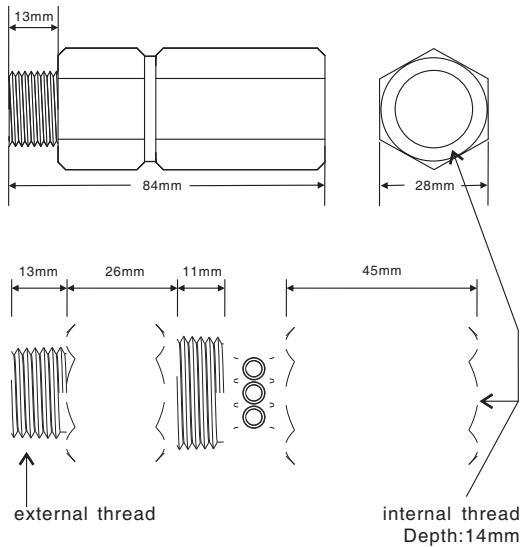
Certification standards:

- GB3836.1-2010(IEC 60079-0)
- GB3836.2-2010(IEC 60079-1)
- GB3836.4-2010(IEC 60079-11)

Explosion-proof parameters:

Type	Ui	Ii	Pi	Ci	Li
CZLBX-48-S	50V	32mA	0.4W	0uF	0mH
CZLBX-48-S3	50V	16mA	0.2W	0uF	0mH

■ Dimensions



Thread Standards:

- 1、M20×1.5
- 2、1/2" NPT
- 3、3/4" NPT
- 4、Pg 13.5
- 5、G 1/2"
- 6、G 3/4"

Note: Please tell us when you need a different thread require. Wire size 32/0.2(1.0mm², 18AWG), length 150mm. Either screw on the shell or earthing terminal within the instrument can connect to ground.