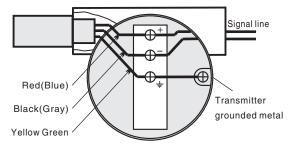
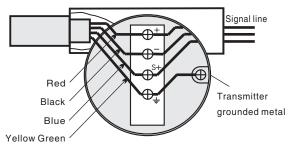
Connections

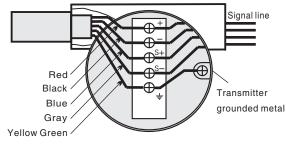
2-wire:



3-wire



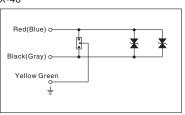
4-wire



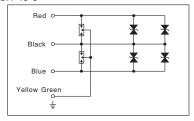
Note:The wires between surge protective device and protected devices (including ground lines) should be as short as possible.

Function principle diagram

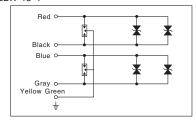
CZLBX-48



CZLBX-48-3



CZLBX-48-4



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.

SHANGHAI CHENZHU INSTRUMENT CO.,LTD.



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Surge Protective Device

CZLBX-48 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.

CZ. CZLBX-48.11(S)E-4.6/15.05

Summarize

CZLBX-48 series surge protective device is designed for protecting devices in the field from damaging by surges and field instruments which is usually caused by lightning strikes. The product has passed the test of shanghai lightning protection center. Explosion protect performance has passed the certificati- on of National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation.

- (1). Conveniently installed on spare screwed holes of protected devices.
- (2). Paralleled with signal cables of protected devices.
- (3). Total discharge current is 20kA.
- (4). Protecting 2-wire, 3-wire, 4-wire field instruments.

Specification

Rated operating voltage Un (DC): 24V Max. operating voltage Uc (DC): 48V Rated discharge current In(8/20us): 5KA Max. discharge current Imax(8/20us): 10KA Total discharge current Itotal(8/20us): 20KA Protection level Up (8/20us, line to line): 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 Leakage current: <2uA Temperature range: -40°C ~ +85°C

Relative humidity: 5%~95%

Material: 304 stainless steel

Degree of protection: IP65

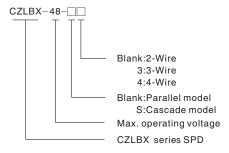
Test standards: GB 18802.21

IEC 61643-21

Lightning protection performance test: Shanghai lightning protection

centre

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 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

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

Cerfication standards:

GB3836.1-2010(IEC 60079-0)

GB3836.2-2010(IEC 60079-1)

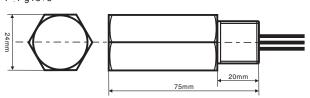
GB3836.4 -2010(IEC 60079-11)

Explosion-proof parameters:

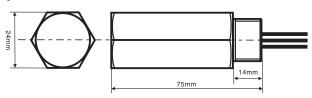
Туре	Ui	li	Pi	Ci	Li
CZLBX-48	50V	32mA	0.4W	0uF	0mH
CZLBX-48-3	50V	16mA	0.2W	0uF	0mH
CZLBX-48-4	50V	32mA	0.4W	0uF	0mH

Dimensions

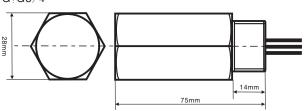
I:M20×1.5 P:Pg13.5



N:1/2"NPT g:G1/2"



n:3/4"NPT G:G3/4"



Note: Wire size 32/0.2 (1.0mm², 18AWG), length 150mm.