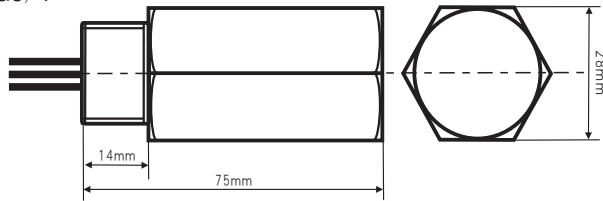


3/4" NPT
G3/4"

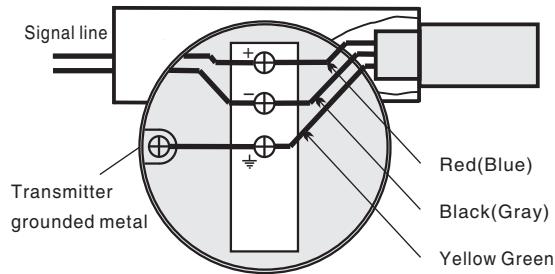


Note: Wire size 26/0.254 (1.32mm², 16AWG), length 150mm.

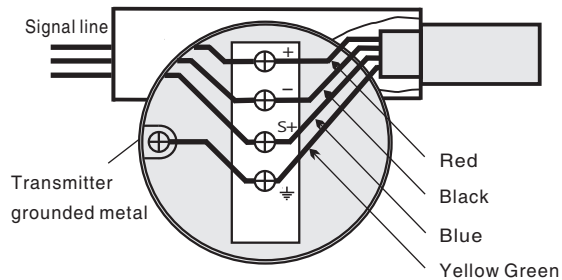
Connections

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

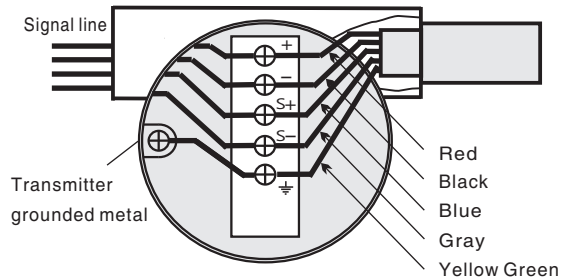
2-wire:



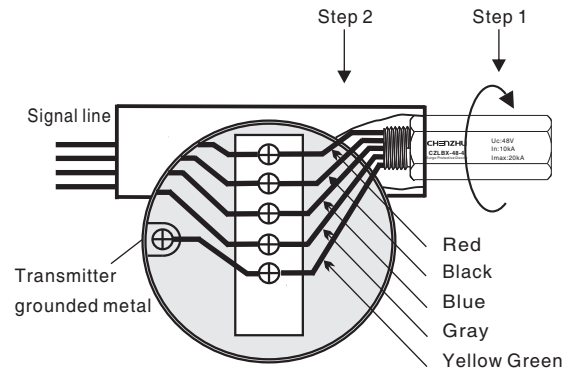
3-wire



4-wire



Installation



Installation steps:

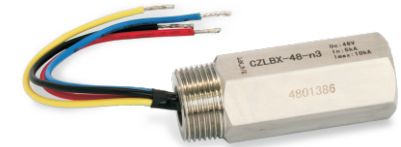
- Step 1: Put SPD wires/cables inside the protected device (through the thread connections) and then tighten the thread.
- Step 2: Connect SPD wires/cables to the corresponding terminals.

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.

Surge Protective Device

CZLBX-48 series



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.

SHANGHAI CHENZHU INSTRUMENT CO.,LTD.



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Songjiang New Industrial Park, Shanghai 201612, P.R. China
Tel : +86-21-64513350 Fax : +86-21-64846984
Email : chenzhu@chenzhu-inst.com
<http://www.chenzhu-inst.com>

Summarize

CZLBX-48 series surge protective device is designed for protecting devices in the field from being damaged by surges and field instruments which is usually caused by lightning strikes.

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

Specification

Rated operating voltage U_n (DC):	24V
Max. operating voltage U_c (DC) :	48V
Rated discharge current $I_n(8/20\mu s)$:	10KA
Max. discharge current $I_{max}(8/20\mu s)$:	20KA
Protection level U_p (8/20 μs , line to line):	85V
Protection level U_p (8/20 μs , line to ground):	600V
Response time (line to line):	1ns
Response time (line to ground):	100ns
Bandwidth(-0.5dB):	2MHz
Leakage current:	<2 μA
Temperature range:	-40 $^{\circ}C$ ~+85 $^{\circ}C$
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 center

Certificates

Lightning protection performance test

Shanghai Lightning Protection Center
Test standards: GB/T 18802.21(IEC 61643-21)

Functional safety level: SIL3

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

Test standards: GB/T 20438.1(IEC 61508-1)
GB/T 20438.2(IEC 61508-2)

Ex mark: Ex ia IIC T4~T6 Ga

Ex d IIC T4~T6 Gb

China National Quality Supervision and Test Center for Explosion Protected electrical products

Certification standards: GB3836.1(IEC 60079-0)

GB3836.2(IEC 60079-1)

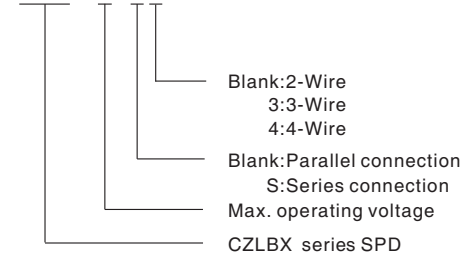
GB3836.4(IEC 60079-11)

Ex parameters: (see the explosion-proof certification)

Type	U_i (V)	I_i (mA)	P_i (W)	C_i (μF)	L_i (mH)
CZLBX-48	50	32	0.4	0	0
CZLBX-48-3	50	16	0.2	0	0
CZLBX-48-4	50	32	0.4	0	0

Model designations

CZLBX-48-□□

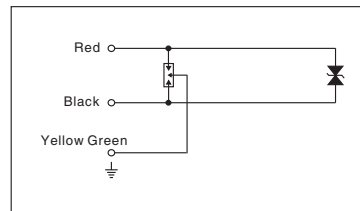


Customer can specify the thread standards:

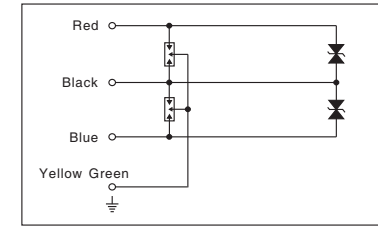
- M20×1.5(International)
- 1/2" NPT(American)
- 3/4" NPT(American)
- G1/2"(British)
- G3/4"(British)

Function principle diagram

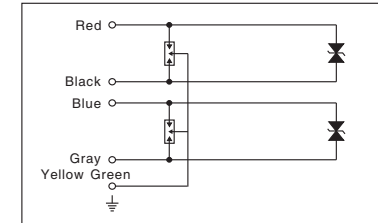
CZLBX-48



CZLBX-48-3

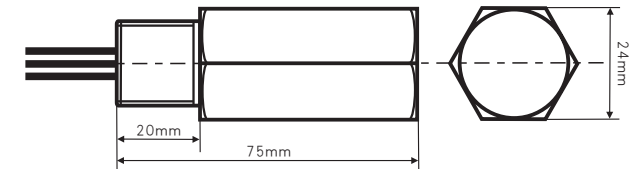


CZLBX-48-4



Dimensions

M20×1.5



1/2" NPT
G1/2"

