

**Explosion-proof signal lightning surge protector
Threaded connection 20KA 5-48V**



Description

The product mainly provides perfect protection for on-site 2-wire, 3-wire and 4-wire instruments to prevent them from damage caused by lightning induction, voltage and power supply interference, and electrostatic discharge. The lightning protection device is encapsulated in a 316 stainless steel casing, and can provide 1/2"NPT, M20*1.5, PG13.5, G1/2 and other threaded line interfaces. The lightning arrester is connected in parallel with the signal system, and there is almost no additional loss to the signal. It can be used for FF bus, PROFITBUS-PA, and WorldFIP systems, and is suitable for instruments with HART protocol, 4-20mA analog signals, 2/3/4-wire transmitters, thermal resistors, switch quantities, digital communications RS-485, RS-232, RS422, flow meters, solenoid valves, etc., without affecting the normal communication of signals. It is widely used in petroleum, chemical, natural gas, environmental protection, new energy and other industries

Feature

It is suitable for the safety precautions of intrinsic safety, fire and explosion prevention, has explosion-proof certification, and has obtained Exd explosion-proof mark approval, meeting the standard requirements for use in hazardous industrial environments.

Encapsulated in 316 stainless steel casing, suitable for 1/2” NPT, M20^1.5 and other threaded interfaces, 2-wire, 3-wire and 4-wire optional, can be used in 5-48V power supply voltage system loop.

Large current capacity, strong transmission performance, convenient wiring and simple maintenance.

Specification

Model	2 wire	D12Y2-T	D24Y2-T	D48Y2-T
	3 wire	D12Y3-T	D24Y3-T	D48Y3-T
	4 wire	D12Y4-T	D24Y4-T	D48Y4-T
Lightning projection zone(LPZ)	0-2			
Compliance	IEC61643, EN60950			



Category IEC/EN	D/C1/C2C3		
Norminal discharge current In	12V	24V	48V
Max continuous operating voltage Uc	15V	33V	58V
Nominal discharge current (8/20μs) In	10KA		
Max discharge current I _{max} (8/20μs) I _{max}	20KA		
Total norminal discharge Current (8/20μs)	2 wire:20KA, 3 wire: 30KA, 4 wire: 40KA		
Lightning impulse current I _{imp} (10/350μs)	2.5KA		
Voltage protection level U _p	≤40V	≤50V	≤90V
Transmission rate	10Mbps		
Response time t _A	1ns		
Insertion loss	≤0.5dB		
Protection line	2 Line	3 Line	4 Line
Connector type	1/2"NPT、 M20*1.5、 PG13.5、 G1/2		
Mounting	Be Installed between protected equipment and signal line		
Dimension	75*31*27mm		
Lead length	250mm		
IP code(IEC EN 60529)	IP67		
Material/color	Steel / silver		
Cross section of connection wire	≤6mm ²		
Environment	Temperature: -40 to 85°C , Relative humidity: ≤95%		



Dimension and Wiring Diagram of D24(48)Y4-T-1/2NPT surge protector

