

PD-12 / 7.5

Power & Data Line Surge Protector For Long Range Reader

LPS



Consist of data and high power (12V, 5A) protection in a single device.

Features:

- PD series is ideal for RS485, RS 422, RS 423, Ethernet signal of instrumentation interfaces and equipment such as long range RFID reader, servers, card reader that uses high power 12V DC supply.
- Protects sensitive data networks against lightning induced surges without impairing the system normal operation or cause excessive in line resistance
- PD series employs multistage protection with GDT for primary protection then linked by a second stage series impedance and semiconductor voltage dependant device to provide unsurpassed performance in lightning surge protection

Data Protection Specification

Technical Specification	PD-12/7.5
Number of wire to be protected	2 wires
Signal Type	RS 422, RS 423, RS485, LAN
Nominal Operating Signal Voltage	±5V
Max. Operating Signal Voltage	±7.5V
Standard Clamp Voltage @ 1mA	9.5V (Line-Screen, Line-Line)
Left-through Voltage (Line - Ground) @ IEEE C 62.36 - 1994 (CCITT) / ITU-k.20 Enhanced 6kV, 150A, 10/700µs	12V(Line-Screen, Line-Line) 600V (Screen - Ground)
Max. Surge Current per pair @ 8/20µs	20kA
-3db Band width @ 600 ohm circuit	From DC to 20MHz
@ 110 ohm circuit	From DC to > 100MHz
Insertion Loss @ 600 ohm circuit	<0.1db
Max. Signal Current (Line-Line)	350mA
Loop Resistance	4 ohm
Response Time	<1ns
Connector Interface	Screw Terminal
Mounting Interface	DIN-Rail / Panel Mount
Operation & Storage Temperature	-40°C to +70°C

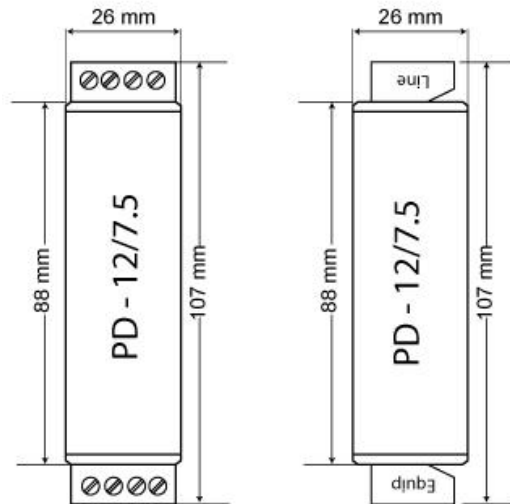
12V Power Protection Specification

Technical Specification	Description
Number of wire to be protected	2
Nominal Operating Voltage	± 12V
Max. Operating Voltage	± 18VDC
Standard Clamp Voltage @ 1mA	22V
Left-through Voltage (Line-Line)@ ITU-k.20 Enhanced 6kV, 150A, 10/700µs	30V
Max. Surge Current 8/20 µs	10kA
Max Loading Current	5A
Earth	Floating Earth
Response Time	< 5ns
Connector Interface	Screw Terminal
Mounting Interface	DIN-Rail / Panel Mount
Operation & Storage Temperature	-40°C to +70°C
Number of wire to be protected	2

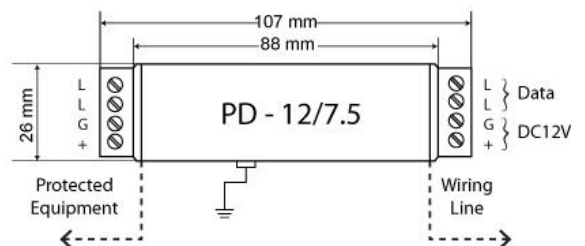
Ordering Info

Protected Wires	Model Number
2 wire data 2 wire 12V, 5A power	PD 12 / 7.5

Dimension



Connection Diagram



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