Data/Signal Line Lightning Surge Protector (289PN Series) Specifications

The **289PN series** is a range of lightning and transient surge protection devices specifically design to protect equipment connected to Data and Small Signal Sensor & Control lines, with low working voltages.

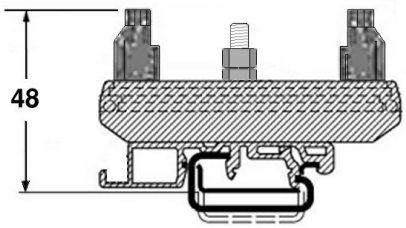
The device is particularly useful in industrial control applications when the sensors or the controlled equipment is located remotely from the controller.

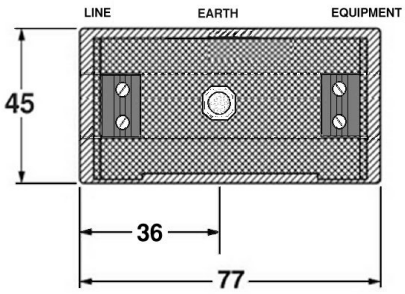
To maximize the protection of equipment the device with the closest working voltage rating above the actual working voltage, should be selected.

Features:

- Provides equipment with fast and efficient protection against lightning induced and other transient surges, protects both AC and DC lines.
- Suppression of 1.2/50µS, 8/20µS and 1.2/50µS-8/20µS combination transient waveforms.
- A range of working voltages available
- Suitable for use with 4-20mA Signal lines and with RS-422 and RS-485 Data lines
- Automatic clamping of line-to-line and line-to-ground transients
- Low insertion loss
- Once activated, the surge protector device will not fault the line or interrupt the line from service
- Modular construction, with integral din rail mounting

Mechanical Specifications





- Size (L x W x H) : 77 x 45 x 48mm
- Weight : 107g ± 2g
- Mounting : Din Rail
- Earth Bolt : M6
- Line Terminal Connections : Wire Protected
  - Wire Size (Fine Strand) : 4mm² (max.)
  - Wire Size (Solid Strand) : 6mm² (max.)
  - Wire Strip Length : 8mm

Electrical Specifications

Working Voltage	: See table below
Clamping Voltage	: See table below
Response Time	: ≤ 5nS
Peak Power Dissipation	: ≥15kW
Current (Continuous Max.)	: 1.5 amps
Series Resistance	: < 0.25 ohms

Voltages & Models Available

Part No.	Working Voltage	Clamping Voltage
FI289PN12	**12**V AC or DC	15.8V
FI289PN15	**15**V AC or DC	19.0V
FI289PN18	**18**V AC or DC	23.2V
FI289PN20	**20**V AC or DC	25.2V
FI289PN24	**24**V AC or DC	31.6V
FI289PN30	**30**V AC or DC	37.8V

Note: Special Voltages made to order

Installation

This unit is a shunting device which is designed to divert large amounts of harmful surge current to earth ground. The user must provide an extremely low impedance connection to the local earth ground of the equipment being protected.

Designed & Manufactured In Australia

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