

HyperLink Wireless Indoor DIN 3 Rail Mount Differential Data Line Lightning Surge Protector Model: HGLND-D2-12

Applications

- RS-232 communication lines
- Sensors
- Industrial control lines

Features

- DIN 3 rail mountable
- 3-Stage surge protection
- Superior to diode or TVS only based designs
- Failsafe mode of operation
- Die Cast aluminum construction



Description

The HGLND-D2-12 high performance 3-stage lightning protector provides superior protection of differential or balanced digital or analog lines from transients and surges. The units will protect two pairs of differential data or analog signal/control lines.

The first stage is comprised of a differential gas discharge tube. Stage two is a pair of current limiting series resistors and the final stage is a low capacitance diode array. The use of three terminal differential gas discharge tubes provides superior common and differential mode protection against conducted transients versus the use of lower cost two terminal tubes. The second stage series resistance limits the power dissipation of the fast diode clamp array in the third stage. This allows time for the slower but higher power gas tubes to flash over. The diode array clamps the leading edge of fast transients to safe levels until the high power gas tubes turn on. This eliminates the damaging leading edge spike that single stage gas tube protectors let leak through. The diode array's low capacitance assures that the suppressor will not degrade the high-speed signals. The 3-stage design can handle higher-level transients than a protector that uses only diodes.

For more complete surge protection of data lines, the use of two units is recommended, one at each end of the line.

This unit can be mounted to a DIN 3 rail using the DIN mounting clip located on the rear of the unit.



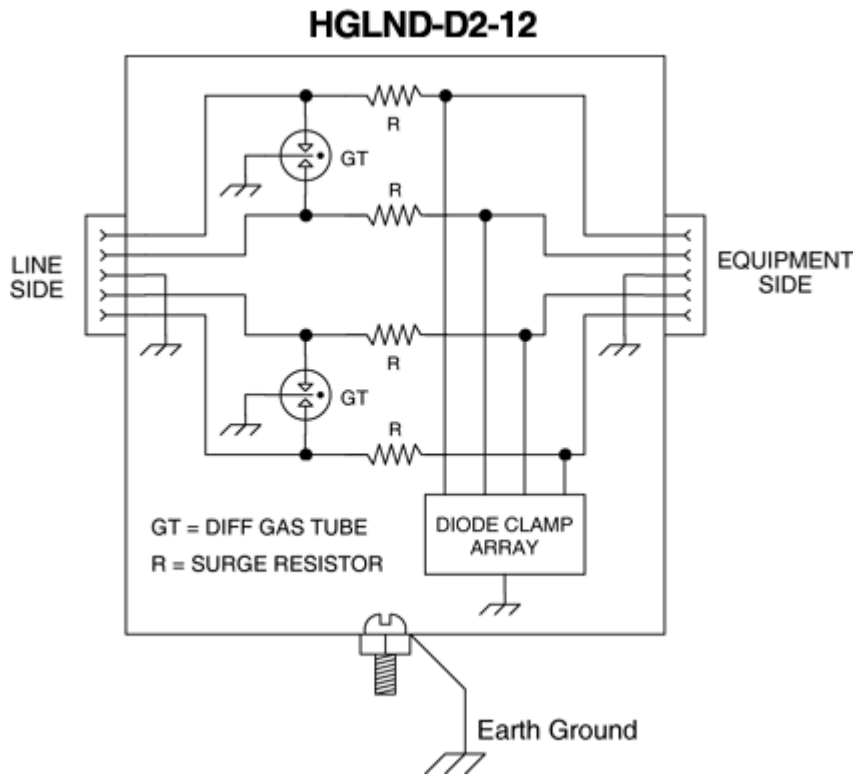
Specifications

Electrical Specifications

Connections	(2) Screw Terminal Blocks
Stage 1 Clamping Voltage	± 90 volts
Stage 2 Resistance	3.3 ohms
Stage 3 Clamping Voltage	± 20 volts

Mechanical Specifications

Enclosure Material	Cast Aluminum
DIN Mounting Clip	DIN 3 Rail
Ground Lug	10 AWG Max.
Operating Temperature	-40 C (-40 F) to +80 C (+176 F)
Weight	.38 lbs. (.17 kg)
Dimensions (WxHxL)	4.5 x 2.5 x 1.5 (inches) 114.2 x 63.5 x 38.1 (mm)
RoHS Compliant	Yes



Custom Requirements

The HGLND-D2-12 can be optionally configured to protect differential or single ended data or control lines of other voltage levels.