

HyperLink Wireless brand Weatherproof High Power Phone/DSL Lightning Surge Protector

Applications

- Telephone lines
- DSL lines

Features

- Three stage protection
- Superior to diode or TVS only based designs
- Screw terminal blocks
- Industrial grade weatherproof die cast aluminum enclosure with mounting brackets



Model ALW-DSLS

Description

The ALW-DSLS is HyperLink's outdoor version of its HGLN-D2-DT protector. This high performance 3-stage lightning protector provides superior protection for Telephone and DSL lines. Shared phone lines carry the ring voltage for standard telephones. The unit protects against both differential and common mode transients.

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 protection against surges. 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 high speed signals will not be degraded by the suppressor. 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.

Industrial Grade Weatherproof Enclosure

This protector features an industrial grade die cast aluminum enclosure with gasketed cover and concealed mounting holes. It includes an aluminum mounting kit and hardware. PG16 cable glands are provided on the enclosure as well as an external ground clamp to provide a tie point for earth ground.



Specifications

Electrical Specifications

Connectors	(2) Screw Terminal Blocks
Pinout	Line 1: Pins 1 / 2 Line 2: Pins 4 / 5
Stage 1 Clamping Voltage	± 230 volts
Stage 2 Resistance	3.3 Ohms
Stage 3 Clamping Voltage	± 170 volts

Mechanical Specifications

Enclosure Material	Die Cast Aluminum
Enclosure Color	Gray
Ground Lug	10 AWG Max.
Operating Temperature	-40 C (-40 F) to +80 C (+176 F)
Weight	1.15 lb. (.52 kg)
Dimensions (WxHxL)	4.91 x 3.14 x 2.30 (inches) 124.8 x 79.7 x 58.4 (mm)
RoHS Compliant	Yes

