

SL4-485



SL4-485 Protectors

The Novaris SL4 range provides 20kA high energy surge protection for two balanced pair signaling circuits used in a wide range of industrial monitoring and control equipment with line current up to 500mA. The SL4 is ideal in areas of high lightning activity. The SL4-485 can protect two SL485 signaling pairs or an RS422 signaling system.

Indicating fuse

In the event of a surge beyond the rating of the SL4 a fuse will rupture. The red pin on top of the unit indicates this and in turn a short circuit to earth is prevented ensuring fail safe operation.

Multistage protection

Following the primary GDT is a series coordinating impedance followed by a high-speed clamping diode circuit providing safe voltage protection level for the equipment to be protected.

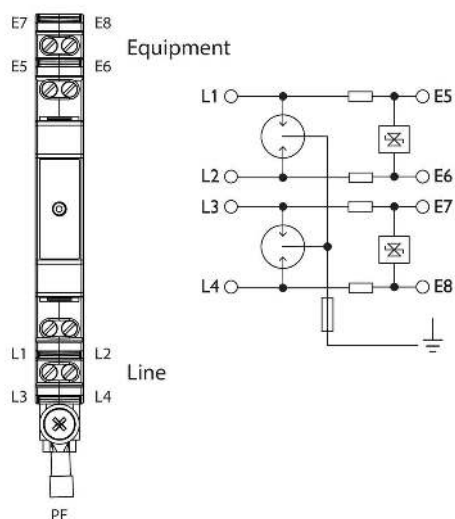
Contact Reliability

Gold plated fingers used on the connector between top and bottom module.

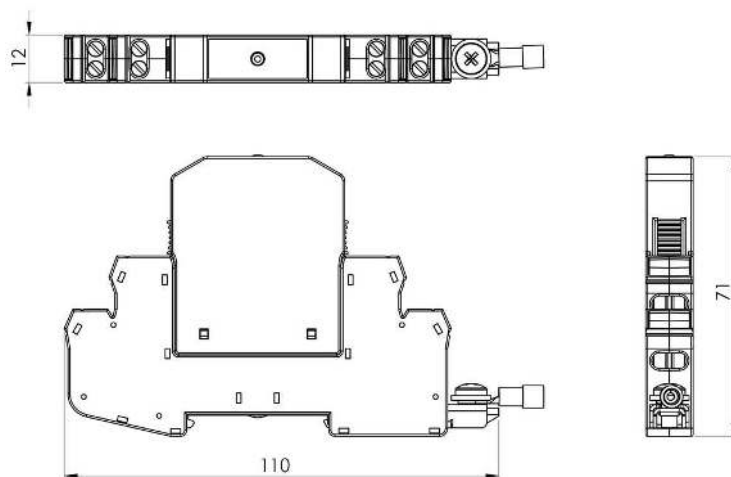
Pluggable design

The pluggable design allows for easy removal and replacement.

Wiring



Dimensions








Standards

IEC 61643-21
AS/NZS 1768
UL497, A, B
AS/NZS4117
AS7708

SPD connected to telecommunications and signaling networks – Cat C2, D1
Lightning Protection
Protectors for telecommunications, data and fire alarm circuits
Surge protective devices for telecommunications applications
Signals earthing and surge protection

Product Datasheet

Electrical Specifications

Connection type		Series
Number of lines		2 pair
Modes of protection		Transverse & Common
Maximum continuous voltage (DC)	U_c	8V
Maximum continuous voltage (AC)	U_c	6V
Maximum discharge current (8/20 μ s)	I_{max}	10kA
Maximum common mode discharge current (8/20 μ s)		20kA
Maximum discharge current (10/350 μ s)		2.5kA
Maximum common mode discharge current (10/350 μ s)	I_{imp}	5kA
Impulse durability C2 10x8/20 μ s		10kA
Impulse durability D1 2x10/350 μ s		5kA
Maximum load current	I_L	500mA
AC durability 5x1s		1Arms
Overstressed fault mode		Mode 3
Response time	t_A	<5ns
Line resistance		3.9 Ω
Insertion loss @ 150 Ω		<0.5dB @ <1MHz
3 dB Frequency @ 150 Ω		60MHz

Shipping Specifications

Weight		55g
Customs tariff		85363000













Electrical (L-L) Specifications

Voltage protection level @ 1 kV/ μ s	U_p	35V
Voltage protection level @ 3 kA 8/20 μ s	U_p	35V
Voltage protection level @ 100 V/ s		15V
Capacitance	\pm	32pF

Electrical (L-PE) Specifications

Voltage protection level @ 1 kV/ μ s	U_p	350V
Voltage protection level @ 3 kA 8/20 μ s	U_p	600V
Voltage protection level @ 100 V/ s		230V
Capacitance	\pm	2pF

Mechanical Specifications

Minimum operating temperature		-40°C
Maximum operating temperature		70°C
Minimum operating humidity		5%
Maximum operating humidity		95%
Mounting method		TS35 DIN Rail
Environmental rating		IP20
Enclosure material		Polycarbonate
Terminal type		Screw cage
Terminal capacity		2.5mm ²
Terminal screw torque		0.5Nm
Earthing		Direct
Length		110mm
Width		12mm
Height		71mm

Other Specifications

Product Code		SL4-485
--------------	---	---------