

SL4-12-485



Combined Signal Line and Power Protector for Gallagher 2-wire alarm systems

The Novaris SL4-12-485 is purpose designed dual surge protector for the Saab Gallagher alarm system. It combines an RS485 type signal line protector for the Gallagher 2 wire alarm circuit along with its associated 12 VDC power circuit protector inside a common housing. This combined protector is compact at only 12mm wide, allowing for easy installation. It is specific for this system and should not be used for other applications without consulting Novaris.

Indicating Fuse

In the event of a surge beyond the rating of the SPD, an internal fuse will rupture. A red alarm indication pin on top of the unit will pop up indicating this and in turn a short circuit to earth is prevented, ensuring fail safe operation.

Multistage Protection

Following primary GDT's are series coordinating impedances followed by a high-speed clamping diode circuit providing safe voltage protection levels for the equipment to be protected.

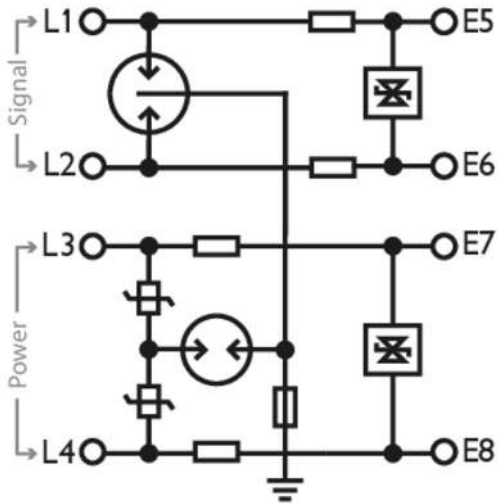
Contact Reliability

Redundant gold-plated fingers are used on the connections between the top cassette and bottom module ensuring high reliability.

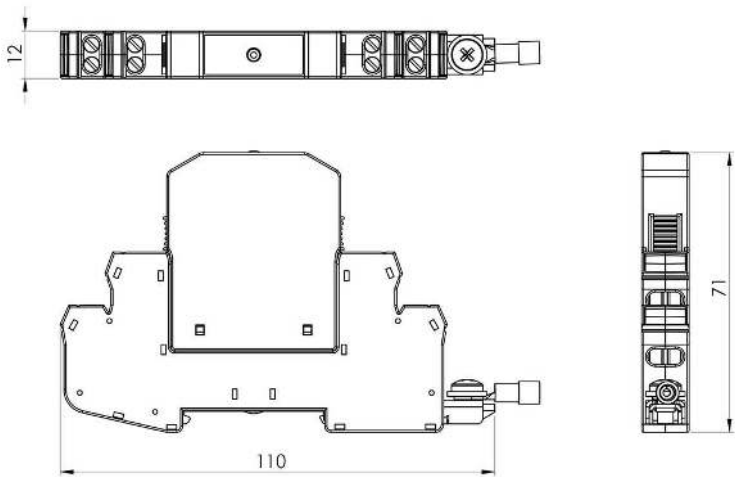
Pluggable Design

The pluggable design with the surge components in a removable top cassette allows for easy removal and replacement without disconnection of any wiring.

Wiring



Dimensions



Standards

IEC 61643-21
AS1768
AS/NZS4117
AS7708



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

Product Datasheet




Electrical Specifications

Connection type		Series
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











Electrical (Power) Specifications

Number of lines		1 pair
Modes of protection		Transverse & Common
Maximum continuous voltage (DC)	U_c	18V
Maximum continuous voltage (AC)	U_c	12V
Maximum common mode discharge current (8/20 μ s)		4.8kA
Maximum load current	I_L	2A
Voltage protection level (L-L) @ 100V/s	U_p	<50V
Voltage protection level (L-L) @ 1kV/ μ s	U_p	<70V
Voltage Protection Level (L-L) @ 3kA 8/20 μ s	U_p	<90V
Capacitance (L-L)	- +	<25nF
Voltage protection level (L-PE) @ 100V/s	U_p	90V
Voltage protection level (L-PE) @ 1kV/ μ s	U_p	150V
Voltage protection level (L-PE) @ 3kA 8/20 μ s	U_p	260V
Capacitance (L-PE)	- +	2pF

Electrical (Signal) Specifications

Number of lines		1 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)	I_{imp}	1.25kA
Maximum common mode discharge current (10/350 μ s)		2.5kA
Impulse durability C2 10x8/20 μ s		5kA
Impulse durability D1 2x10/350 μ s		2.5kA
Maximum load current	I_L	250mA
AC durability 5x1s		1A rms
Overstressed fault mode		Mode 3
Response time	t_A	<5ns
Line resistance		3.9 Ω
3 dB Frequency @ 150 Ω		60MHz
Voltage protection level (L-L) @ 100V/s	U_p	9V
Voltage protection level (L-L) @ 1kV/ μ s	U_p	15V
Voltage protection Level (L-L) @ 3kA 8/20 μ s	U_p	15V
Capacitance (L-L)	- +	18pF
Voltage protection level (L-PE) @ 100V/s	U_p	230V
Voltage protection level (L-PE) @ 1kV/ μ s	U_p	350V
Voltage protection level (L-PE) @ 3kA 8/20 μ s	U_p	600V
Capacitance (L-PE)	- +	4pF

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
Dimensional tolerance		0.5mm

Other Specifications

Product Code		SL4-12-485
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Shipping Specifications

Weight		65g
Customs tariff		85363000, 85363010