

SLC-12-485

Combine Signal Line and Power Protector

The Novaris SLC combined protector is compact at 12mm wide, allowing for easy installation.

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 SLC, 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

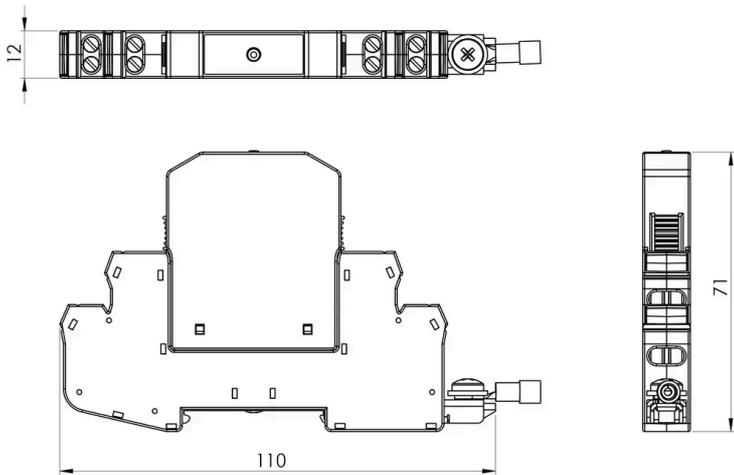
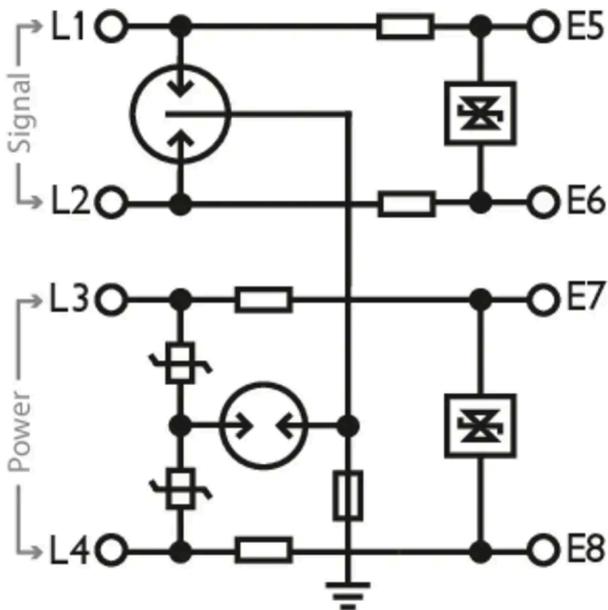
The pluggable design allows for easy removal and replacement.



Image for illustrative purposes only

Wiring

Dimensions



Product Datasheet

Electrical Specifications

Connection type		Series
3 dB Frequency @ 150 Ω		60MHz
Earthing		Direct

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
Length		110mm
Width		12mm
Height		71mm
Dimensional tolerance		0.5mm

Standard Specifications

IEC 61643-21	SPD connected to telecommunications and signalling networks - Cat C2, D1
AS 1768	Lightning protection
AS/NZS 4117	Surge Protective Devices for Telecommunications Applications
AS 7708	Signals Earthing and Surge Protection

Other Specifications

Product Code		SLC-12-485
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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 μs)		5kA
Maximum load current	I_L	2A
Voltage protection level (L-L) @ 1kV/μs	U_p	45V
Voltage Protection Level (L-L) @ 3kA 8/20μs	U_p	<90V
Capacitance (L-L)	- -	<25nF
Voltage protection level (L-PE) @ 100V/s	U_p	90V
Voltage protection level (L-PE) @ 1kV/μs	U_p	350V
Voltage protection level (L-PE) @ 3kA 8/20μs	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 μs)	I_{max}	10kA
Maximum common mode discharge current (8/20 μs)		20kA
Maximum discharge current (10/350 μs)	I_{imp}	5kA
Maximum common mode discharge current (10/350 μs)		10kA
Impulse durability C2 10x8/20μs		10kA
Impulse durability D1 2x10/350μs		5kA
Maximum load current	I_L	500mA
AC durability 5x1s		1A rms
Overstressed fault mode		Mode 3
Response time	t_A	<5ns
Line resistance		3.9Ω
Voltage protection level (L-L) @ 100V/s	U_p	9V
Voltage protection level (L-L) @ 1kV/μs	U_p	15V
Capacitance (L-L)	- -	18pF
Voltage protection level (L-PE) @ 100V/s	U_p	230V
Voltage protection level (L-PE) @ 1kV/μs	U_p	350V
Voltage protection level (L-PE) @ 3kA 8/20μs	U_p	600V
Capacitance (L-PE)	- -	4pF

Shipping Specifications

Weight		65g
Customs tariff		85363000, 85363010