

### SLH2-18

#### High Energy Signal Line Protection

The Novaris SLH2 range provides 20kA high energy surge protection for balanced pair signaling circuits with line currents up to 2.5A.

#### Multistage protection

Following the primary GDT is a series coordinating impedance followed by a metal oxide varistor clamping circuit providing a safe voltage protection level for the connected equipment.

#### Pluggable design

The protection circuitry is contained within a removable top module. This pluggable design allows for easy removal and replacement. Reliable gold-plated connectors are used between top and base modules.

#### Earthing

The SLH2 range utilizes a base which can be locked to the DIN rail by a screw that also provides an earth termination.

#### Failsafe design

In the event of excessive surge current, a fuse will rupture, preventing a short circuit to earth.

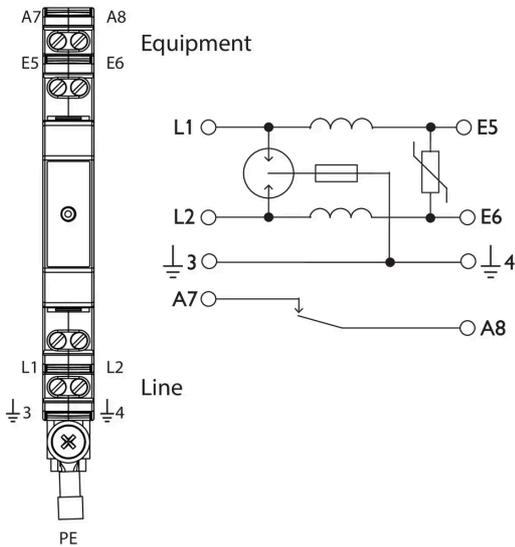
#### Indication and alarm

In the event of a failure a red indicating flag on the module will be activated. A normally closed alarm contact will open providing a means for remote condition monitoring.

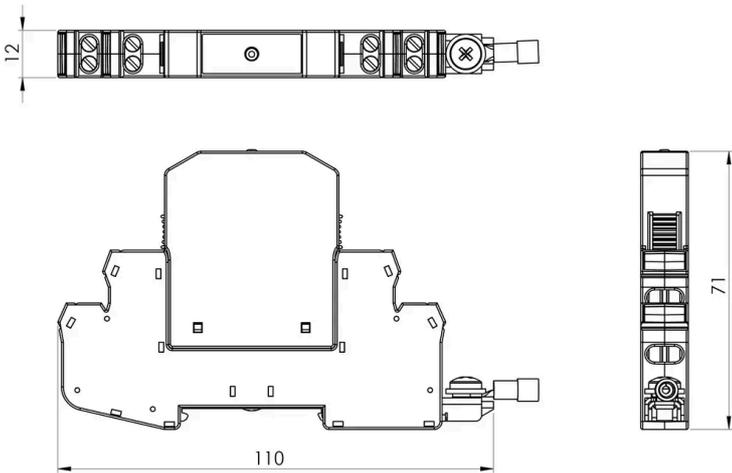


Image for illustrative purposes only

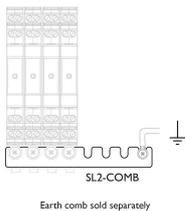
### Wiring



### Dimensions

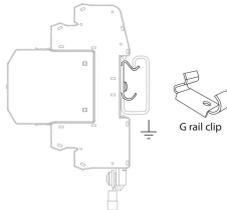


#### Earth Comb Option



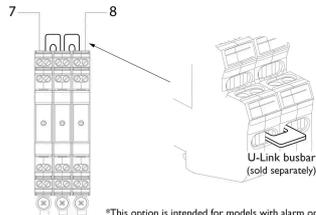
Earth comb sold separately

#### G Rail Mounting Clip Option (-G)



G rail clip

#### Alarm Busbar Link



\*This option is intended for models with alarm only.



## Product Datasheet

## Electrical Specifications

Connection type		Series
Number of lines		1 pair
Modes of protection		Transverse & Common
Maximum continuous voltage (DC)	$U_c$	16V
Maximum continuous voltage (AC)	$U_c$	11V
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	10kA
Maximum common mode discharge current (8/20 $\mu$ s)		20kA
Maximum discharge current (10/350 $\mu$ s)	$I_{imp}$	2.5kA
Maximum common mode discharge current (10/350 $\mu$ s)	$I_{imp}$	5kA
Impulse durability C2 10x8/20 $\mu$ s		10kA
Impulse durability D1 2x10/350 $\mu$ s		5kA
Maximum load current	$I_L$	2.5A
AC durability 5x1s		1A rms
Overstressed fault mode		Mode 3
Response time	$t_A$	<5ns
Line resistance		0.06 $\Omega$
Line inductance		20 $\mu$ H
Insertion loss @ 150 $\Omega$		<0.5dB @ <70kHz
3 dB Frequency @ 150 $\Omega$		60MHz
Earthing		Direct

## Electrical (L-L) Specifications

Voltage protection level @ 1 kV/ $\mu$ s	$U_p$	30V
Voltage protection level @ 100 V/ s		20V
Capacitance	$\pm$	16nF

## Electrical (L-PE) Specifications

Voltage protection level @ 1 kV/ $\mu$ s	$U_p$	350V
Voltage protection level @ 3 kA 8/20 $\mu$ s	$U_p$	500V
Voltage protection level @ 100 V/ s		230V
Capacitance	$\pm$	7.6pF

## Indication Specifications

Alarm		Impulse overload current
Alarm isolation		100V

## 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 <sup>2</sup>
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
UL 497A, B	Protectors for telecommunications, data and fire alarm circuits
AS/NZS 4117	Surge Protective Devices for Telecommunications Applications

## Shipping Specifications

Weight		75g
Customs tariff		85363000, 85363010

## Other Specifications

Product Code		SLH2-18
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