

SL2-18

High Energy Signal Line Protection

The Novaris SL2 range provides up to 20kA high energy surge protection for balanced pair signaling circuits with line currents up to 500mA.

Multistage Protection

Following the primary GDT is a series coordinating impedance followed by a high-speed clamping diode 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 SL2 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.

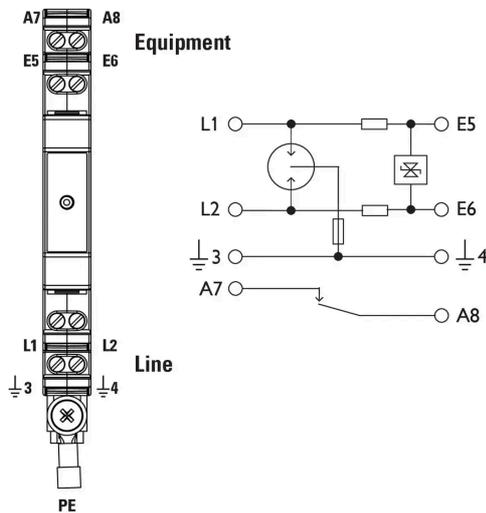
Indication and Alarm

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.

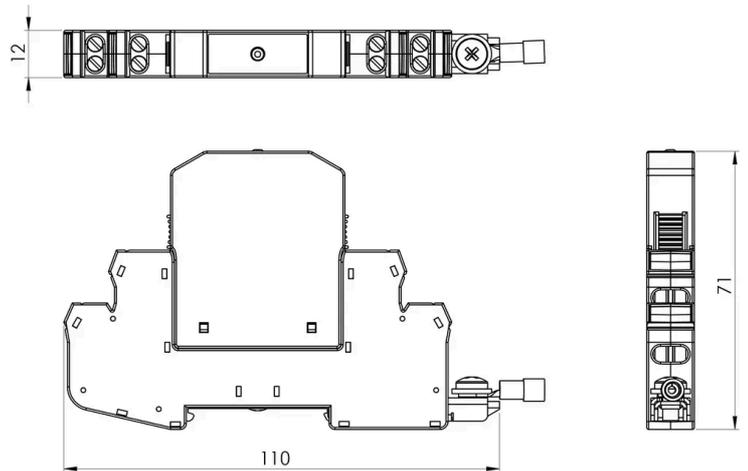


Image for illustrative purposes only

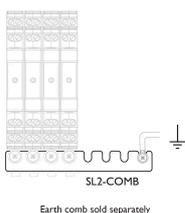
Wiring



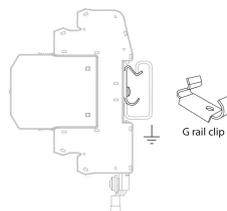
Dimensions



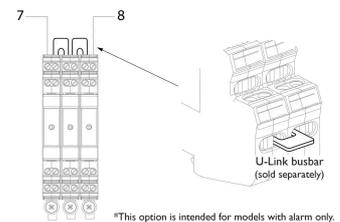
Earth Comb Option



G Rail Mounting Clip Option (-G)



Alarm Busbar Link



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 μ s) | I_{max} | 10kA |
| Maximum common mode discharge current (8/20 μ s) | | 20kA |
| Maximum discharge current (10/350 μ s) | I_{imp} | 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 | | 1A rms |
| Overstressed fault mode | | Mode 3 |
| Line resistance | | 3.9 Ω |
| Insertion loss @ 150 Ω | | <0.5dB @ <70kHz |
| 3 dB Frequency @ 150 Ω | | 60MHz |
| Earthing | | Direct |

Electrical (L-L) Specifications

| | | |
|--|-------|------|
| Voltage protection level @ 1 kV/ μ s | U_p | 30V |
| Voltage protection level @ 100 V/ s | | 20V |
| Capacitance | \pm | 32pF |
| Response time | t_A | 1ps |

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 |

Indication Specifications

| | | |
|-----------------|--|--------------------------------------|
| Alarm | | Impulse overload current and thermal |
| 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 ² |
| Terminal screw torque | | 0.5Nm |
| Terminal labels | | Klemsan 505850 DB 5 |
| 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 |
| AS 7708 | Signals Earthing and Surge Protection |

Shipping Specifications

| | | |
|----------------|--|--------------------|
| Weight | | 70g |
| Customs tariff | | 85363000, 85363010 |

Other Specifications

| | | |
|--------------|--|--------|
| Product Code | | SL2-18 |
|--------------|--|--------|