

## SL2-68



## High Energy Signal Line Protection

The Novaris SL2 range provides 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.

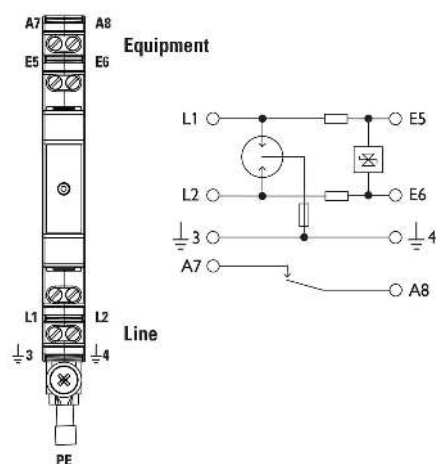
## Failsafe Design

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

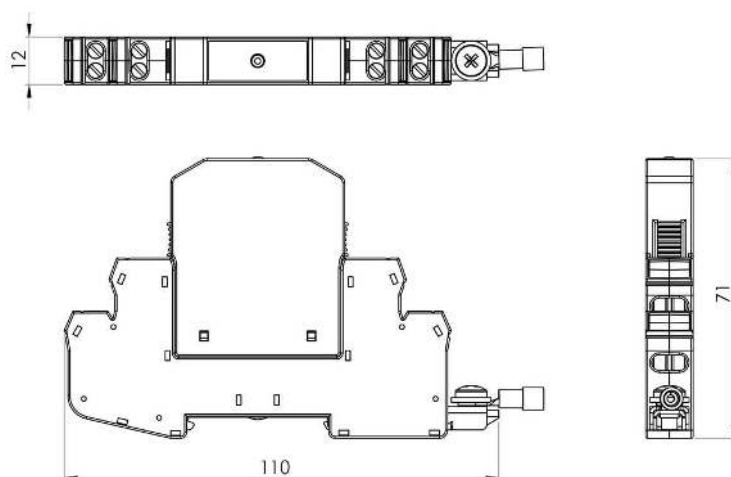
## Indication and Alarm

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.

## 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  |  | 1 pair              |
| Modes of protection                                    |  | Transverse & Common |
| Maximum continuous voltage (DC)                        | $U_c$   | 65V                 |
| Maximum continuous voltage (AC)                        | $U_c$   | 46V                 |
| 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)             |   | 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                                   | $I_L$   | 500mA               |
| AC durability 5x1s                                     |   | 1Arms               |
| Overstressed fault mode                                |   | Mode 3              |
| Response time  | $t_A$   | <5ns                |
| Line resistance  |  | 3.9 $\Omega$        |
| Insertion loss @ 150 $\Omega$                          |  | <0.5dB @ <70kHz     |
| 3 dB Frequency @ 150 $\Omega$                          |   | 60MHz               |



### Electrical (L-L) Specifications

|  |       |      |
|--|-------|------|
| Voltage protection level @ 1 kV/ $\mu$ s     | $U_p$ | 80V  |
| Voltage protection level @ 3 kA 8/20 $\mu$ s | $U_p$ | 80V  |
| Voltage protection level @ 100 V/ s          |       | 72V  |
| Capacitance                                  | - +   | 32pF |













### Electrical (L-PE) Specifications

|  |       |      |
|--|-------|------|
| Voltage protection level @ 1 kV/ $\mu$ s     | $U_p$ | 350V |
| Voltage protection level @ 3 kA 8/20 $\mu$ s | $U_p$ | 600V |
| Voltage protection level @ 100 V/ s          |       | 230V |
| Capacitance                                  | - +   | 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 <sup>2</sup>  |
| Terminal screw torque         |  | 0.5Nm               |
| Terminal labels               |   | Klemsan 505850 DB 5 |
| Earthing                      |   | Direct              |
| Length                        |  | 110mm               |
| Width                         |  | 12mm                |
| Height                        |  | 71mm                |
| Dimensional tolerance         |   | 0.5mm               |

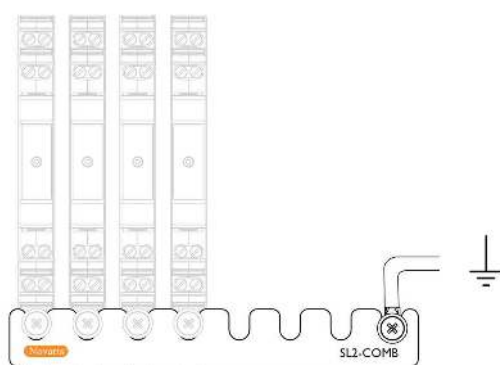
### Other Specifications

|              |   |        |
|--------------|---|--------|
| Product Code |  | SL2-68 |
|--------------|---|--------|

### Shipping Specifications

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

### Earth Comb Option



Earth comb sold separately

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

