SL2-18-EC90



High Energy Signal Line Protection

The Novaris SL2...-EC90 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...-EC90 range utilizes a base which can be locked to the DIN rail by a screw that also provides an earth termination. The -EC90 gas discharge tube located in the top module allows screened cable to be protected without the screen being directly earthed, thereby avoiding noise caused by "earth loops".

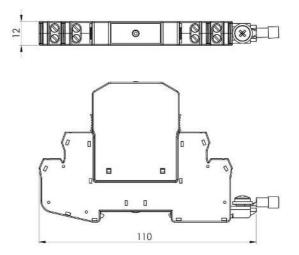
Failsafe design

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.

Dimensions





Standards

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

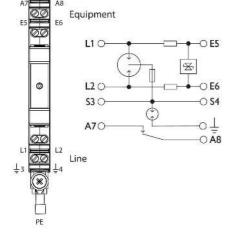


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Novaris

Wiring



Product Datasheet

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Electrical Specifications

Connection type	ý	Series
Number of lines	≔	1 pair
Modes of protection	ų	Transverse & Common
Maximum continuous voltage (DC)	U _c	16V
Maximum continuous voltage (AC)	U _c	11V
Maximum discharge current (8/20 µs)	l _{max}	10kA
Maximum common mode discharge current (8/20 µs)		20kA
Maximum discharge current (10/350 µs)		2.5kA
Maximum common mode discharge current (10/350 µs)	I _{imp}	5kA
Impulse durability C2 10x8/20µs		10kA
Impulse durability D1 2x10/350µs		5kA
Maximum load current	I,	500mA
AC durability 5x1s		1Arms
Overstressed fault mode		Mode 3
Response time	t	<5ns
Line resistance		3.9Ω
Insertion loss @ 150 Ω	h	<0.5dB @ <70kHz
3 dB Frequency @ 150 Ω		60MHz

Electrical (L-L) Specifications

Voltage protection level @ 1 kV/ µs	U _p	25V
Voltage protection level @ 3 kA 8/20 µs	U _p	25V
Voltage protection level @ 100 V/ s		20V
Capacitance	⊣⊦	32pF

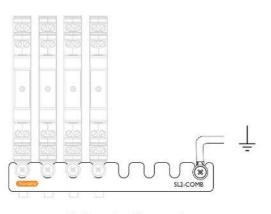
Electrical (L-PE) Specifications

Voltage protection level @ 1 kV/ µs	U _p	350V
Voltage protection level @ 3 kA 8/20 µs	U _p	600V
Voltage protection level @ 100 V/ s		230V
Capacitance	⊣⊢	2pF

Indication Specifications

Alarm	¢	Impulse overload current and thermal
Alarm isolation	<u>۶</u> 5	100V





Earth comb sold separately

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Mechanical Specifications

Minimum operating temperature	ß	-40°C
Maximum operating temperature	l	70°C
Minimum operating humidity	۲	5%
Maximum operating humidity	۵	95%
Mounting method	r	TS35 DIN Rail
Environmental rating	Ŵ	IP20
Enclosure material	Ø	Polycarbonate
Terminal type		Screw cage
Terminal capacity	Θ	2.5mm²
Terminal screw torque	C	0.5Nm
Terminal labels		Klemsan 505850 DB 5
Earthing		90V isolation
Length	2	110mm
Width	↔	12mm
Height	1	71mm
Dimensional tolerance		0.5mm

Other Specifications

Product Code IIII SL2-18-EC90

Shipping Specifications

Weight	Â	70g
Customs tariff	×.	85363000, 85363010

