### SL485-EC90



## Slimline Signal Line Protectors

Novaris SL range provides surge protection for most twisted pair signalling schemes. Ideal for the protection of PLCs, fire and security systems, telecommunications and telemetry systems, railway signalling, SCADA and other industrial monitoring and control equipment.

### Multistage Failsafe Design

A high energy gas discharge tube (GDT) as primary protection plus series impedance and secondary components provide very robust surge protection with high transient suppression offering low let-through voltages.

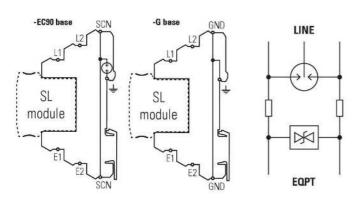
### **Two Different Earthing Options**

With two different base options the SL protectors offer either direct earthing via DIN rail, for the most effective, low impedance earth connection (-G base) or a connection via GDT to the DIN rail, offering isolation under normal conditions and equipotential bonding during a surge (-EC90 base).

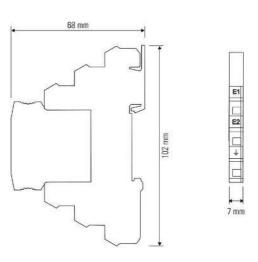
#### Slimline Pluggable Modules

The plug-in design provides simple and rapid replacement and testing - no rewiring needed. This also provides a convenient method of field equipment isolation if required.

# Wiring



## **Dimensions**



### **Standards**

 IEC 61643-21
 SPD connected to telecommunications and signalling networks - Cat C2, D1

 AS/NZS 1768
 Signalling/Telecommunications surge protection

 UL 1499 & UL 497B
 Protectors for data communications and fire-alarm circuits

 ITU-T K.44
 Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents

 AS/CA S008
 Requirements for Customer Cabling Products

 AS/NZS 4117
 Surge Protective Devices for Telecommunications Applications

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# **Specifications**

## **Electrical Specifications**

Connection type	¥	Series
Number of lines	≔	1 pair
Modes of protection	'n	Transverse and Common
Maximum continuous voltage (DC)	U <sub>c</sub>	8V
Maximum continuous voltage (AC)	U <sub>c</sub>	6V
Maximum discharge current (8/20 μs)	l <sub>max</sub>	5kA
Maximum common mode discharge current (8/20 μs)		10kA
Maximum discharge current (10/350 µs)		1.25kA
Maximum common mode discharge current (10/350 μs)	l <sub>imp</sub>	2.5kA
Impulse durability C2 10x8/20µs		5kA
Impulse durability D1 2x10/350µs		2.5kA
Maximum load current	I <sub>L</sub>	250mA
AC durability 5x1s		1Arms
Overstressed fault mode		Mode 3
Response time	t <sub>A</sub>	<5ns
Line resistance	<b>-</b>	3.9Ω
Insertion loss @ 150 Ω	1	<0.5dB @ <1MHz
3 dB Frequency @ 150 Ω		70MHz

## **Mechanical Specifications**

Minimum operating temperature	P	-40°C
Maximum operating temperature		70°C
Minimum operating humidity	8	5%
Maximum operating humidity	<b>&amp;</b>	95%
Mounting method	Æ	TS35 DIN Rail
Environmental rating	ŵ	IP20
Enclosure material	•	Polycarbonate
Enclosure finish	•	Black
Terminal type		Screw cage
Terminal capacity	•	2.5mm <sup>2</sup>
Terminal screw torque	G	0.5Nm
Earthing		90V isolation
Length	~	102mm
Width	<b></b>	7mm
Height	1	68mm

## Electrical (L-L) Specifications

Voltage protection level @ 1 kV/ μs	$\mathbf{U}_{\mathbf{p}}$	35V
Voltage protection level @ 3 kA 8/20 µs	U <sub>p</sub>	35V
Voltage protection level @ 100 V/ s		15V
Capacitance	H۲	<20pF

## Other Specifications

Product Code	•	SL485-EC90
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## Electrical (L-PE) Specifications

Voltage protection level @ 1 kV/ μs	U <sub>p</sub>	350V
Voltage protection level @ 3 kA 8/20 µs	U <sub>p</sub>	600V
Voltage protection level @ 100 V/ s		230V
Capacitance	⊣⊢	<10pF

## **Shipping Specifications**

Weight	Â	35g
Customs tariff	*	85363000

# Accessories



SL-EXTRACT

promoter





For additional information please refer the SL Accessories Catalogue , No. 0004-D14V1

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