Product Datasheet

SL-RTD-G

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).
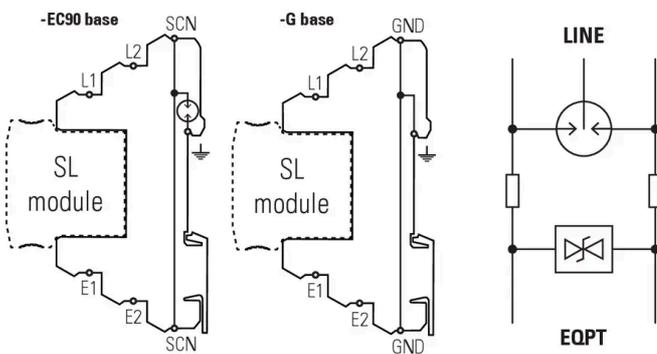
Slimline Pluggable Modules

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.
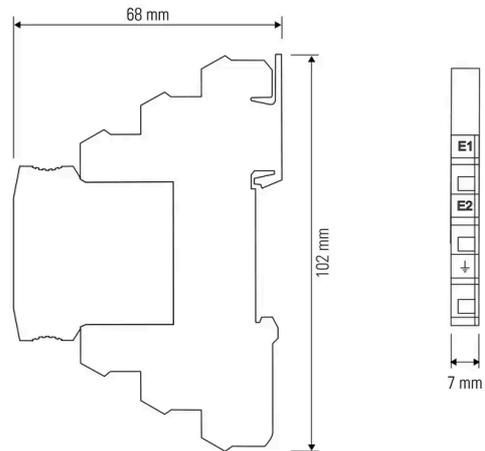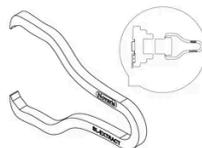
Image for illustrative purposes only

Wiring

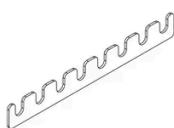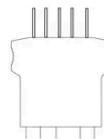## Dimensions

Accessories

SL-EXTRACT   SL-COMB   SL-TEST   SL-DRIVER

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

Product Datasheet

Specifications

Electrical Specifications

Connection type	⚡	Series
Number of lines	☰	1 pair
Modes of protection		Transverse and common
Maximum continuous voltage (DC)	U_c	7V
Maximum continuous voltage (AC)	U_c	5V
Maximum discharge current (8/20 μs)	I_{max}	5kA
Maximum common mode discharge current (8/20 μs)		10kA
Maximum discharge current (10/350 μs)	I_{imp}	1.25kA
Maximum common mode discharge current (10/350 μs)	I_{imp}	2.5kA
Impulse durability C2 10x8/20μs		5kA
Impulse durability D1 2x10/350μs		2.5kA
Maximum load current	I_L	250mA
AC durability 5x1s		1A rms
Overstressed fault mode		Mode 3
Line resistance	⎍	3.9Ω
Insertion loss @ 150 Ω		<0.5dB @ <1MHz
3 dB Frequency @ 150 Ω		60MHz
Earthing		Direct

Electrical (L-L) Specifications

Voltage protection level @ 1 kV/ μs	U_p	15V
Voltage protection level @ 100 V/ s		9V
Capacitance	⊣⊢	<20pF
Response time	t_A	1ps

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	⊣⊢	<15pF

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
Enclosure finish		Black
Terminal type		Screw cage
Terminal capacity	⊙	2.5mm²
Terminal screw torque	↻	0.5Nm
Length	⤢	102mm
Width	↔	7mm
Height	↕	68mm

Standard Specifications

IEC 61643-21	SPD connected to telecommunications and signalling networks - Cat C2, D1
AS 1768	Signalling/Telecommunications surge protection
UL 1449 & 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

Shipping Specifications

Weight	⚖	35g
Customs tariff		85363000, 85363010

Other Specifications

Product Code	|||||	SL-RTD-G