SLT3-7v5-M20

Threaded Signal Line Protectors

Novaris threaded instrument protectors provide surge protection for most twisted pair signalling schemes and are designed to be installed directly at the field equipment providing protection against induced surges and transients.

M20 and 1/2" NPT Threads

The threaded enclosure provides an easy installation by directly screwing into a free cable entry on the instrument. Common thread types such as M20 x 1.5 and ½" NPT threads are accommodated for. Other threads are available by request.

Multistage Design

The multistage design provides a high energy gas discharge tube (GDT) as primary protection for common mode disturbances, commonly associated with lightning strikes and power system earth faults and a secondary metal-oxide varistor clamping stage across the signal lines. This combination provides very robust surge protection with high transient suppression and low let-through voltages. In addition protection is provided for cable screens which may be open circuit at the instrument.

SLT-Y Adapter

Where a field instrument has no free cable entry Novaris can supply a Y-piece adapter to accommodate the threaded instrument protector and cable gland. The SLT-Y is available in the same thread types as the SLT protectors.

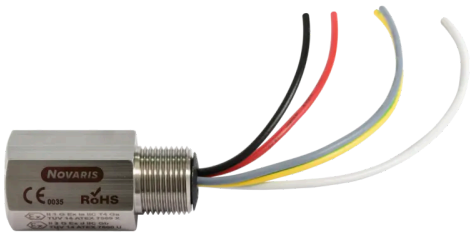
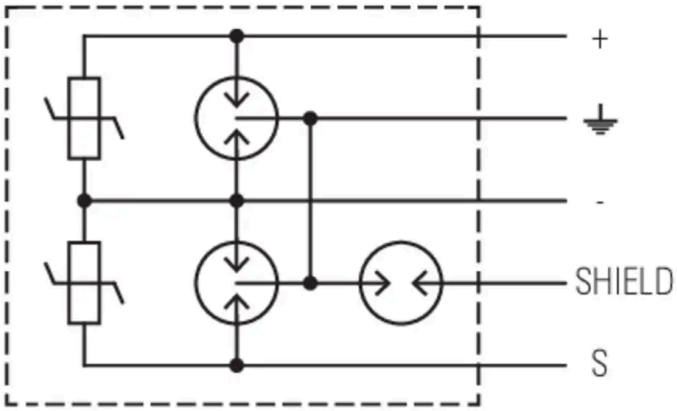
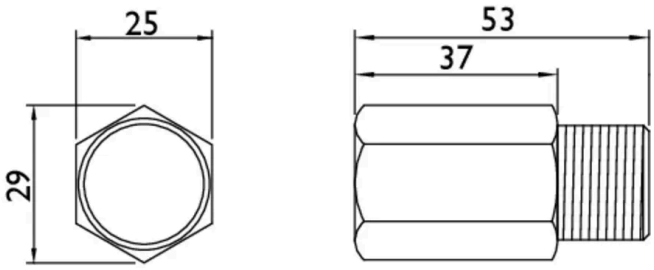


Image for illustrative purposes only

Wiring



Dimensions



M20 x 1.5 Thread Size

Electrical Specifications

Connection type		Shunt
Number of lines		1 pair + center
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
AC durability 5x1s		1A rms
Overstressed fault mode		Mode 1
Response time	t_A	<25ns
3 dB Frequency @ 150 Ω		100kHz
Earthing		90V isolation

Electrical (L-L) Specifications

Voltage protection level @ 1 kV/ µs	U_p	40V
Voltage protection level @ 100 V/ s		25V
Capacitance	⊣⊢	20nF

Electrical (L-PE) Specifications

Voltage protection level @ 1 kV/ µs	U_p	350V
Voltage protection level @ 100 V/ s		230V
Capacitance	⊣⊢	<1pF

Mechanical Specifications

Minimum operating temperature		-20°C
Maximum operating temperature		40°C
Minimum operating humidity		5%
Maximum operating humidity		95%
Mounting method		M20 Thread
Environmental rating		IP67
Enclosure material		Stainless Steel
Terminal type		Flying lead
Length		53mm
Width		25mm
Height		29mm

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

Shipping Specifications

Weight		165g
Customs tariff		85363000, 85363010

Other Specifications

Product Code		SLT3-7v5-M20

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