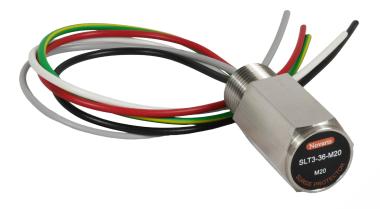
SLT - Threaded Signal Line Protectors



Field Instrument Surge 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 $\frac{1}{2}$ " NPT threads are accommodated for. Other threads are available by request.

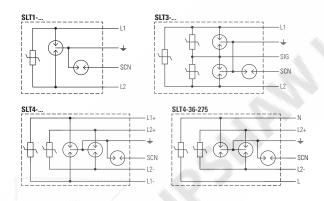
Multistage design

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.

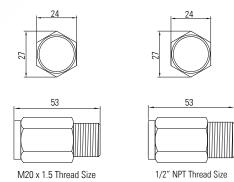
SLT-Y Adapter

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.

Diagram / Installation



Dimensions



Ordering Information

Model	Signal	Signal Type		ıd Size	Hazardous Area Product	
			M20 x 1.5	1/2 " NPT		
SLTx-7v5	0 - 5 VDC analogue	5 V digital	-M20	-N12	IS-SLTx-7v5	
SLTx-18	0 - 12 VDC analogue	12 V digital	-M20	-N12	IS-SLTx-18	
SLTx-36	0 - 24 VDC analogue	4-20 mA	-M20	-N12	IS-SLTx-36	
SLTx-68	0 - 48 VDC analogue	48 V digital	-M20	-N12	-	
SLT4-RTD	RTD applications	Thermocouple	-M20	-N12	IS-SLT4-RTD	
SLT4-36-275	4-20 mA & Po	4-20 mA & Power supply		on request	_	



Product Specifications

Model		SLTx-7v5	SLTx-18	SLTx-36	SLTx-68	SLT4-RTD	SLT4-36-275			
Electrical Specifications										
Connection Type		Shunt	Shunt	Shunt	Shunt	Shunt	Shunt			
Number of lines			X =	1 → 1 pair 3 → 3 lines 4 → 4 lines		4 lines	1 pair Signal (S) 1 L & N Power (P)			
Modes of protection				Transverse	and common mode					
Maximum continuous voltage (DC)	U.	7 V	18 V	36 V	65 V	8 V	36 V (S) / 350 V (P)			
Maximum continuous voltage (AC)	U.	5 V	14 V	30 V	50 V	6 V	30 V (S) / 275 V (P)			
Maximum discharge current (8/20 µs)	l _{max}				(10 kA common mode)		00 1 (0)/ 2/01 (1)			
Maximum discharge current (10/350 μs)	max I imp	max								
mpulse durability	imp	C2 10 x 2.0 kA 8/20 μs C2 10 x 0.5 kA D1 2 x 0.5 kA 10/350 μs 8/20 μs								
Maximum load current	I,				-					
L-L Voltage protection level @ 1 kV/ μs	U _D	45 V	50 V	75 V	100 V	45 V	75 V (S) / - (P)			
-L Voltage protection level @ 1 kA 8/20 μs	U	70 V	75 V	110 V	160 V	70 V	-(S)/-(P)			
-L Voltage protection level @ 100 V/s	Í	25 V	30 V	60 V	80 V	25 V	55 V (S) / - (P)			
-PE Voltage protection level @ 1 kV/ μs	Un	350 V	350 V	350 V	350 V	350 V	350 V (S) / 900 V (F			
-PE Voltage protection level @ 2 kA 8/20 μs	U	530 V	530 V	530 V	530 V	530 V	-(S)/-(P)			
-PE Voltage protection level @ 100 V/s		230 V	230 V	230 V	230 V	230 V	230 V (S) / 600 V (F			
AC durability		1 A rms, 5 x 1 s	1 A rms, 5 x 1 s	1 A rms, 5 x 1 s	1 A rms, 5 x 1 s	1 A rms, 5 x 1 s	1 A rms, 5 x 1 s			
Overstressed fault mode	Mode 1 (SLT disconnected, line still operable)									
Response time	t _A				< 5 ns					
ine resistance					- //	0				
ine inductance					-					
-L capacitance		20 nF	10 nF	7 nF	1 nF	20 nF	7 nF (S) / 60 pF (P)			
-PE capacitance					< 1 pF					
nsertion loss @ 150 Ω										
3 dB Frequency @ 150 Ω	f _c	f _e 100 kHz								
Mechanical Specifications	C									
Operating temperature	-40 to +85 °C									
Humidity Range	5 to 95%									
Connection type / capacity	250 mm, 0.75 mm² flying leads									
Ferminal screw torque					_					
Environmental	IP 67 installed									
Dimensional Drawing	Given by thread size									
Mounting	Thread options M20 x 1.5 or 1/2 " NTP									
Earthing	via lead; 90 V isolation between earth and shield									
Enclosure / Colour				Sta	inless steel					
Standards										
EC 61643-21:2012			SPD connec	cted to telecommunica	tions and signalling net	works - Cat C2, D1				
AS/NZS 1768:2007	Signalling/Telecommunications surge protection									
JL 1449 3 rd edition & UL 497B	Protectors for data communications and fire-alarm circuits									
TU-T K.44: 2012						ervoltages and overcurr	ents			
Shipping			, 222.20 101		, , , , , , , , , , , , , , , , , , , ,					
Weight		165 g	165 g	165 g	165 g	165 g	165 g			
- 0		, , ,		3	85363000	3	85363000			



