



SL Slimline Signal Line Protectors

Novaris SL range of plug-in signal line protectors provide 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.

SL 7v5 - [*]

Product Series
Top

Base option

SL7v5

SL18

SL36

SL68

SL-PSTN

SL-iSwitch

Electrical Specifications

Connection type		Series					
Modes of protection		Transverse and common mode					
Maximum continuous voltage (DC)	U_c	7V	16V	34V	65V	200V	200V
Maximum continuous voltage (AC)	U_c	5V	11V	24V	46V	140V	140V
Discharge current 8/20µs	I_{max}	10kA					
Maximum load current	I_L	250mA					180mA
Impulse voltage 1.2/50µs	U_p	8V	19V	40V	76V	235V	30V
Impulse durability		C2 8/20µs, 5kA, 10 times					
AC durability		1 A _{rms} , 1s, 5 times					
Overstressed fault mode		Mode 3 (open circuit)					
Line resistance		9Ω				8.2Ω	17Ω
Insertion loss @ 150Ω		0.5dB				0.4dB	
3dB Frequency @ 50Ω		250kHz				10MHz	20MHz

Mechanical Specifications

Operating temperature / humidity	-40 to +70°C / 5 to 95% non-condensing @ min current						
Terminal capacity	2.5mm ²						
Terminal screw torque	0.5Nm						
Environmental	IP 20						
Mounting	TS35 DIN rail						
Weight	35g						

Dimensions

Width	7mm
Height	102mm
Depth	68mm

Base Options [*]

Earth connected to DIN rail	G
Earth connected to DIN rail via GDT	EC90

Standards Compliance

ITU-T K.44

AS/NZS 1768

IEEE C62.41

IEC 61643-21

UL497B

A-tick (PSTN & iSwitch)

IECEx ia models available with the Novaris Hazardous Area range
Refer to page 58 for signalling protocol compatibility



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Novaris SL range of plug-in signal line protectors provide 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.

SL 485 - [*]

Product Series
Top

Base option

SL485-EC90

SL-DH

SL-RTD

SL-420

Electrical Specifications					
Connection type		Series			
Modes of protection		Transverse and common mode			
Maximum continuous voltage (DC)	U_c	8V	34V	8V	34V
Maximum continuous voltage (AC)	U_c	6V	24V	6V	-
Discharge current 8/20 μ s	I_{max}	10kA			
Maximum load current	I_L	250mA			30mA
Impulse voltage 1.2/50 μ s	U_p	15V	50V	15V	40V
Impulse durability		C2 8/20 μ s, 5kA, 10 times			
AC durability		1 A_{rms} , 1s, 5 times			-
Overstressed fault mode		Mode 3 (open circuit)			
Line resistance		3.9 Ω			8.2 Ω
Insertion loss @ 150 Ω		0.2dB			1.5dB
3dB Frequency @ 50 Ω		70MHz			250kHz
Display		-			LED Status

Mechanical Specifications	
Operating temperature / humidity	-40 to +70°C / 5 to 95% non-condensing @ min current
Terminal capacity	2.5mm ²
Terminal screw torque	0.5Nm
Environmental	IP 20
Mounting	TS35 DIN rail
Weight	35g

Dimensions	
Width	7mm
Height	102mm
Depth	68mm

Base Options [*]		
Earth connected to DIN rail	-	G
Earth connected to DIN rail via GDT	Standard	EC90

IECEx ia and ATEX models available with the Novaris Hazardous Area range
Refer to page 58 for signalling protocol compatibility

Standards Compliance

ITU-T K.44
AS/NZS 1768
IEEE C62.41
IEC 61643-21
UL497B