

SSP10A-170

Series Surge Protector 10A

The Novaris SSP10A is a surge protection device designed to protect AC and DC low voltage power supplies. The SSP10A has zero earth leakage current and will prevent the tripping of supply fuses down to 2A should a transient overvoltage occur. The SSP10A is DIN rail mountable and is locked onto the DIN rail when the earth lug screw is tightened.

Failsafe Design

In the event of an excessive common mode surge, a fuse will rupture isolating the earth thereby preventing a short circuit to earth. This is critical for applications like railway signaling.

Indicating Fuse

Should the earth fuse rupture a red indicating flag will pop up and a normally closed voltage free contact will change state.

External Alarm

In the event the earth fuse ruptures a normally closed alarm contact will open providing means for remote monitoring.

Pluggable Design

The pluggable design allows for easy removal and replacement.

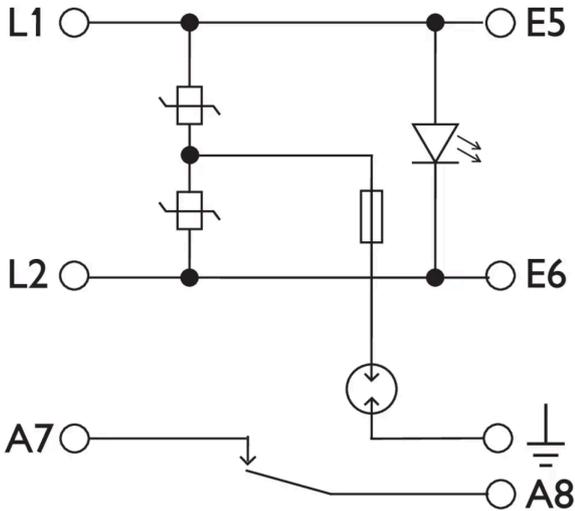
Power Indicator

An LED indicates the presence of power.

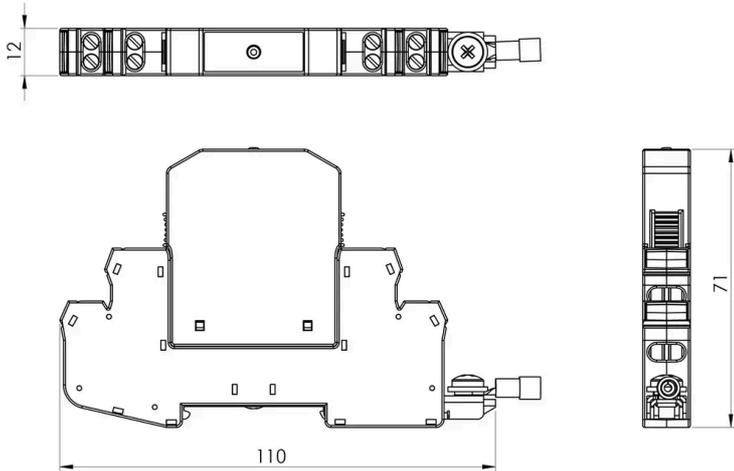


Image for illustrative purposes only

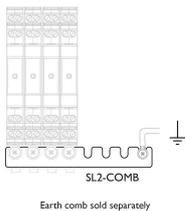
Wiring



Dimensions

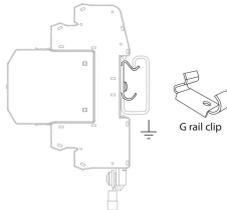


Earth Comb Option



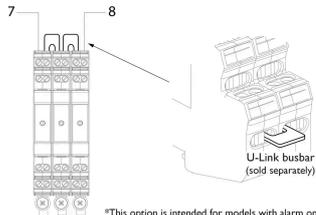
Earth comb sold separately

G Rail Mounting Clip Option (-G)



G rail clip

Alarm Busbar Link



*This option is intended for models with alarm only.



Product Datasheet

Electrical Specifications

Connection type		Series
Number of lines		1 pair
Modes of protection		Transverse & Common
Maximum continuous voltage (DC)	U_c	170V
Maximum continuous voltage (AC)	U_c	150V
Maximum discharge current (8/20 μ s)	I_{max}	10kA
Maximum common mode discharge current (8/20 μ s)		20kA
Impulse durability C2 10x8/20 μ s		10kA
Maximum load current	I_L	10A
AC durability 5x1s		1A rms
Overstressed fault mode		Mode 3
Response time	t_A	<25ns
Line resistance	$\sim\omega\sim$	0.02 Ω
3 dB Frequency @ 150 Ω		200kHz
Tripping surge current for fail safe device		10kA
Minimum supply fuse rating		2A
Earthing		230V isolation

Electrical (L-L) Specifications

Voltage protection level @ 1 kV/ μ s	U_p	290V
Capacitance	- +	5nF

Electrical (L-PE) Specifications

Voltage protection level @ 1 kV/ μ s	U_p	560V
Voltage protection level @ 3 kA 8/20 μ s	U_p	755V
Voltage protection level @ 100 V/ s		210V
Capacitance	- +	2pF

Indication Specifications

Over current fault	LED (internal line fuse)
Common mode tripping surge fault	Alarm and flag (common mode fuse)
Transverse mode tripping surge fault	LED (internal line fuse)
Thermal failure	Alarm
Display	Power

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
Terminal type		Screw cage
Terminal capacity		2.5mm ²
Terminal screw torque		0.5Nm
Length		110mm
Width		12mm
Height		71mm
Dimensional tolerance		0.5mm

Standard Specifications

IEC 61643-21	SPD connected to telecommunications and signalling networks - Cat C2, D1
AS 1768	Lightning protection
UL 497A, B	Protectors for telecommunications, data and fire alarm circuits
AS/NZS 4117	Surge Protective Devices for Telecommunications Applications

Shipping Specifications

Weight		70g
Customs tariff		85363000, 85363010

Other Specifications

Product Code		SSP10A-170
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