



SIGNAL LINE SURGE PROTECTION

Multistage transient protection is provided in each unit to protect any type of control and automation signalling line. Ideal for the protection of PLC's, fire and security systems, railway signalling and SCADA equipment. They are designed to protect even the most sensitive electronic equipment in lightning intense environments.

All Mode Protection

Transients appearing between a signal pair and its earth (common mode) as well as between two or more signal lines (transverse mode) are equally as damaging to connected equipment. The Novaris range of **DINsafe** signal line protectors provide high quality protection for both potentially damaging transients.

Multistage Transient Protection

Models featuring multistage transient protection deliver greater levels of protection through a staged approach. The primary

stage absorbs the majority of the surge energy. The remaining stages provide accurate clamping and a degree of redundancy.

Surge Current Fusing

Surge current fuses allow components to absorb maximum energy but in the event of a component failure the fuse will open to isolate the damaged component.

DIN 43880 Compliant

Protection devices housed in DIN 43880 compliant enclosures allow for convenient installation on DIN rail fittings commonly used worldwide.

Safe Metal Enclosure

Novaris surge protection products are housed in safe, all metal enclosures. In the event of a prolonged overvoltage they will not catch fire or explode.

SL1DIN - y /z

SL2DIN - y /z

SL4DIN - y /z

- ◆ Multistage transient protection
- ◆ All mode protection
- ◆ Surge current fusing
- ◆ DIN 43880 compliant
- ◆ Safe metal enclosure

Ordering Options

SL x DIN - y /z

x = No of pairs: 1, 2, 4

y = Clamping voltage: 7v5 (7.5), 18, 36, 68, 200
The maximum voltage the unit will allow before it suppresses the surge (Alternative clamping voltages available upon request).

Protocol: 485
Suitable for protecting applications using the RS485 networking protocol.

DH
Specifically designed for the protection of Data Highway applications.

z = 2Amps: /2A
For standard models the maximum current is 350mA, while /2A models provide for higher current signals of up to 2A.

High frequency: /HF
Standard models have a signal bandwidth of 1.5MHz, /HF models provide for higher frequencies of up to 25MHz.

Isolated earth: /I
If the screen must be kept isolated from earth select /I models.

SL x DIN - PSTN/y

x = No of pairs: 1, 2, 4

y = Installation class: 1, 2, 3

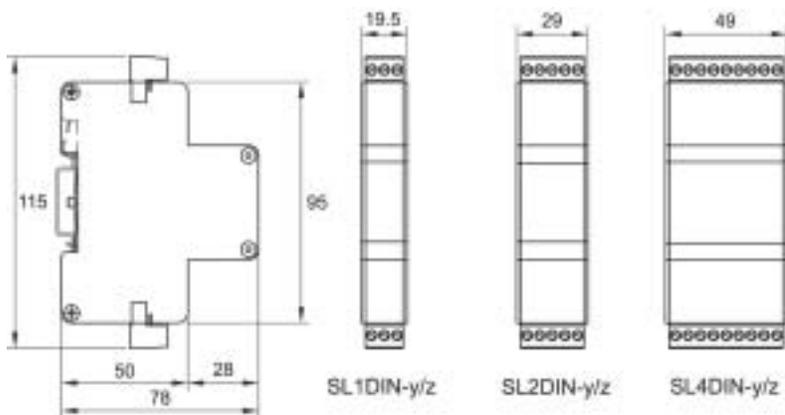
PSTN Protection 

The SLxDIN-PSTN/x is a series of ACA compliant protectors designed for connection to the public telephone network. Applications include telephone, fax, dial-up modem, DSL, ISDN and PABX. When selecting PSTN protection it is important to consider the type of installation.

Class 1 protection is designed for installation away from the Distributer and hence feature higher fault-withstanding capabilities. This includes most domestic installations.

Class 2 and 3 protection is designed for installation at the Distributer, where connection to a quality communications earth is available.

Dimensions



Safety

The Siemens Metal Oxide Varistor (MOV) Handbook states:

Overload may result in package rupture and expulsion of hot material. For this reason a varistor should be physically shielded from adjacent components eg. by a suitable metal case.

DINsafe signal protectors are enclosed in all-metal enclosures and circuit components are not encapsulated in any form of epoxy resin.

Specifications

Description:	Multistage signal line protector
Protection modes:	Transverse & common modes
Connection type:	Series
Max working voltage:	7.5 → 200V See ordering options.
Max working current:	350mA → 2A
Working frequency:	DC → 25MHz - /HF models
Working temperature:	-40 → 85°C
Working humidity:	0 → 90%
Peak surge handling per mode (8/20µs):	20kA
Let-through voltage for 5kV 10/700µs pulse (all modes)	
SLxDIN-7V5	9.7V
SLxDIN-18	22V
SLxDIN-36	41V
SLxDIN-68	77V
SLxDIN-200	200V
SLxDIN-PSTN	130V
Standards compliance:	ITU (CCITT) IX K17 AS1768-2003 cat. A, B, C BS6651-1999 cat. C - High CP33-1996 cat. A, B, C IEC61643-21 UL497B  N2530 (for PSTN models)
In-line resistance:	8.2ohms standard 3.9ohms high speed models
Max conductor size:	2.5mm ² via plugable connectors
Weight:	
SL1DIN-x	250g
SL2DIN-x	300g
SL4DIN-x	400g

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