

Description

The SP404/402 Module is intended to be used on data lines to prevent induced voltage surges from damaging a connected device.

The SP404/402 Module is constructed on a Epoxy Glass Laminate and housed in an industry standard 80mm DIN Rail Mounting. Generous 2.5mm² terminals are provided for the field interconnections.

The SP404/402 Module is CE rated and is RoHS compliant.



Applications

Applications include the protection of controllers and repeaters that are connected to a common LAN.

SP404 is intended for RS-232 and RS422/423 4 wire applications such as Trend systems.

SP402 is intended for RS-485 and MSTP 2 wire applications such as Barber Colman, BACnet and LON.

To provide protection of the controller from the Harsh Plant Environment.

Features

Minimum insertion loss.

Design for DIN rail mounting.

Protector is not polarity conscious.

Rising cage Terminals.

Flame retardant Polyamide DIN mounting.



Specifications

Input Rating:	SP404 4 wire LAN RS422/423 SP402 2 wire LAN RS458
Insertion Loss:	10 Ohms
Rated Discharge Current:	10KA (8/20us)
Response Time:	<10nS
Maximum Line Current:	300mA
Electrical connections:	Rising cage terminals for 0,5 to 2,5mm ² cable.
Ambient Conditions:	-10 to 50°C 0 to 80% RH non-condensing.
Dimensions:	80 x 68 x 41mm.
Weight	100g
I.P. Rating:	IP00.
Mounting	Flame retardant green Polyamide 66 UL 94V0 moulding. To suit 35mm top hat din rail.

The SP404/402 works by blocking and effectively diverting to earth any induced voltage surge. The protection is provided in two stages, namely, primary protection via gas arrestors which reduces voltage surges to a level where the next stage of fast acting secondary protection can limit the voltage surges to a safe level thereby protecting the connected device.

Installation Note

The SP404/402 have been designed to provide protection against voltage surges on LAN wiring, however some surges can produce voltages in excess of 40 Thousand Volts that can jump or arc some distance. It is therefore recommended that the SP404/402 is mounted a minimum of 400 to 500mm from the protected device.

The ability of the SP404/402 to divert voltages to earth depends on the secure electrical connection of the supplied green earth wire to an effective earth.

Disclaimer

While the SP404/402 has proven itself time and again in the field, if a surge exceeds the level of protection given by the SP404/402, such as a direct lightning strike then there can be no guarantee of protection. Watchtower Trading 42 cc does not accept any responsibility for loss or damage resulting from the use of this product or any other cause whatsoever.

See also the SP404/402 Installation Sheet for wiring detail.

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Watchtower Trading reserves the right to update this product, revise and update this publication including information hereof without obligation to notify any person of such updates, revisions or changes.

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