

# Novaris<sup>®</sup>

PART OF THE POWERCOM GROUP

## Combined Power and Signal Protectors

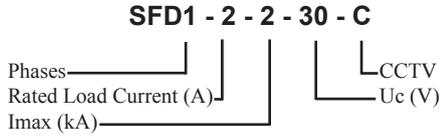
### Installation Instructions



**IMPORTANT:** Please read these instructions carefully. Whilst straightforward, the installation of these devices is critical to their performance. Installation should only be carried out by a suitably qualified person in accordance with all relevant standards.

**1. Introduction**

- 1.1 These installation instructions apply to the Novaris range of combined power and signal protectors.



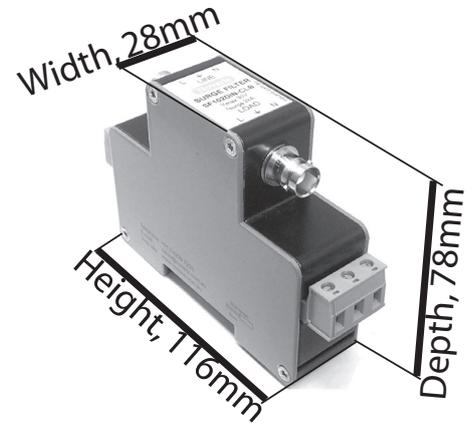
- 1.2 The Novaris combined power and signal protectors are engineered to combine a Novaris Dinsafe surge filter, with a Novaris coaxial CCTV protector in one convenient unit. This makes them ideal for protecting both the power and signal lines of a CCTV camera system.



**Figure 1: SFD1-6-2-30-C**

**2. Before Installation**

- 2.1 Ensure that the maximum voltage present on the power lines does not exceed the maximum continuous operating voltage of the surge filter. Extended overvoltage may damage the surge filter.
- 2.2 Ensure the maximum operating current of the system to be protected does not exceed the rated current of the surge filter.
- 2.3 Ensure the maximum voltage on the signal lines does not exceed the maximum continuous operating voltage of the coaxial signal line protector. Extended overvoltage may damage the coaxial signal line protector.
- 2.4 Before commencing installation of Novaris combined power and signal protectors, turn the power off to the system.



**Figure 2: Dimensions SFD1-x-2-xx-C**

**3. Installation**

- 3.1 **Point of Connection:** The Novaris combined power and signal protector should be connected at the closest practical point to the equipment to be protected.
- 3.2 **Mounting:** Novaris combined power and signal protectors are most easily mounted on DIN rail using their integral clip. Alternatively, the unit may be panel mounted using brackets available from Novaris.

If the unit is to be mounted in an exposed location it should be installed in a suitably rated enclosure. Suitable polycarbonate enclosures are available from Novaris.

- 3.3 **Wiring:** Both the power and signal line components of the unit are connected in series with the equipment to be protected (Figure 3). The incoming power and signal lead should be connected to the line side of the protector, and the equipment to be protected should be connected to the load side.

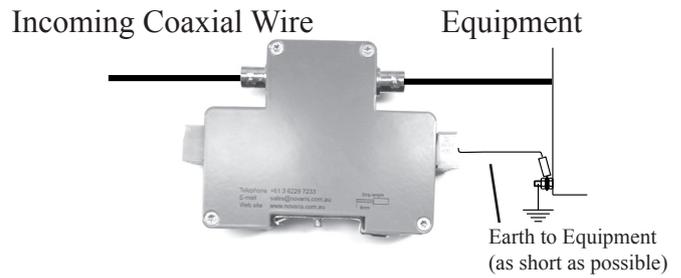
All leads from the Novaris combined power and signal line protector to the equipment to be protected should be as short as possible, this may require mounting the protector sideways or upside down.



**Figure 3: Installation of SFD1-x-2-xx-C**

The incoming wires, connected to the line side of the protector, and the wires to the equipment to be protected, connected to the load side of the protector should be routed such that they are always as far apart as possible, certainly never within the same conduit.

- 3.4 **Connections:** To ensure the correct operation and prevent damage to the surge filter, all power connections (line, neutral and earth) must be made.
- 3.5 The two parts of the unit may be used independently. For example the unit may be used as a surge filter only, or a coaxial protector only, or both simultaneously. If using only the coaxial protector the load side earth of the surge filter must be bonded to the chassis of the equipment being protected **with as short a connection as possible** (Figure 4).



**Figure 4: Instillation of SFD1-x-2-xx-C Coax Only**

#### **4. After Installation**

- 4.1 Check the installation by testing that the equipment is operating correctly.
- 4.2 Novaris combined power and signal protectors are extremely robust and require very little maintenance. Periodic inspections and testing is recommended.
- 4.3 If a fault is detected in the device it should be returned to Novaris for replacement



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