



Relcross Ltd, Hambleton Avenue, Devizes, Wiltshire, SN10 2RT
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New Enhanced Power Supplies

PS011 13.8 V DC - 1.0 Amp continuous

INSTALLATION WARNING – This equipment MUST BE EARTHED

The enclosure must be fixed to a vertical flat surface at a maximum ambient temperature of 45 degrees C in a well ventilated area
This power supply must be installed in accordance with the current IEE regulations covering low voltage power supplies complying with the low voltage directive SI 1994 No 3260 73/23/EEC (LVD)

Features:

- Single stage current protection.
- Short circuit protection.
- Thermal overload protection.
- Constant voltage regulation.
- Fire relay interface to fire alarm system.
- Enclosure door single LED status indicator.
- PCB mounted engineering status LED indicators, show:
 - Mains on
 - Output voltage presence
- Battery management electronics providing:
 - Low voltage trip to disconnect battery and extend battery life.
 - Reverse battery polarity protection by circuit board fuse.

Description:

First stage current protection

A short circuit or severe overload will shut down the regulator & output voltage will be zero until the fault is removed.

Battery management, if battery fitted

Under normal conditions, the battery floats at 13.8 Volts. If the mains power fails, the battery takes the load. Eventually the voltage will drop to 10.5 volts & a relay disconnects the battery, this is automatically reset once the mains has been re-energised. This feature extends battery life by preventing deep discharging and prevents equipment malfunction.

Fire control relay

Terminals FR & FR (Fire relay) can be connected to a voltage free fire system and or access control system. If the fire relay is used, the positive supply is from either +NC (normally closed) and/or +NO (normally open) depending on relay contact position.

Cabinet dimensions in mm: 237H * 195W * 75D

Installation

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Commissioning test



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Perquisites:

- Disconnect battery – if supplied
- Disconnect supplied equipment

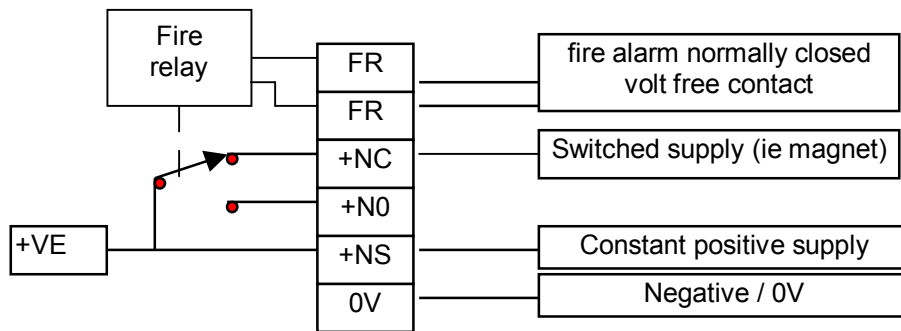
Test procedure

Switch on mains power; the red and green LED on the circuit board should be illuminated

Tests with the load connected: With the load connected, switch on the mains the following LEDs should be on: red & green on PCB, this indicates the test & the power supply loading is correct.

If just the red LED illuminates there is a short circuit with the load connected.

PCB Connections



Relay shown in de-energised state

Circuit board showing connections

