



DESCRIPTION

The 154 is an **output relay expansion module** for the 509 Automatic Mains Failure module. It can be configured to provide volt-free contacts which then allows the OEM to meet more demanding specifications, by adding to the capacity of the 509.

The module comprises a single 'DIN' rail mounted module with interconnecting RS232 cable. This enables rapid fixing into a panel.

The relay expansion features eight, 1 amp rated, **voltage-free, change-over relay contacts** which can be configured to be operate on command from the 509 module. The 509 module has **20 different control sources** from which to drive the relays, and each control source can drive more than one relay. This allows alarms to be grouped, such as Engine Faults, Alternator Faults, Battery faults, etc.

The relay expansion is an extension of the 509 module output capabilities. Simply connect the relay board to a correctly configured 509 module*.

Configuration of the 509 is achieved using the 801 calibration unit and accessing the appropriate password level.

Using this modular approach and utilising the benefits of single wire host connection, demanding specifications can be achieved, with minimum modification to standard product panels. Traditional methods would require the use of a PLC based system with all its associated complexity.

An **alarm mute facility** is provided on the 154 relay module to allow acceptance of an alarm indication from a remote location.

For a complete list of all the possible control sources for the 154 relay module, please refer to the 509 Operators manual.

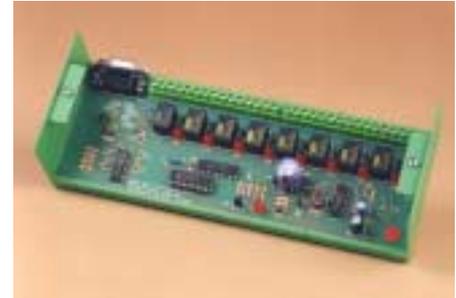
CONFIGURATION

The module will automatically respond to signals from a correctly configured 509 module. The 509 module must be configured via the 801 Hand-held calibration unit. The Expansion relays are identified 'A' to 'H' and appear in the 'Remote Annunciator' configuration menu. For more information on configuration and output state refer to the 509 Operators Manual.

*The 509 module must be fitted with the **RS232 output option**. The 154 relay module cannot be connected to a 'Standard' non-RS232 509 module

NOTE

Input expansion for the 509 module can be achieved using the 510 expansion annunciator or the 54x range of protection expansion/annunciators.



SPECIFICATION

DC SUPPLY:

The 154 is powered from the plant battery or from a low voltage supply between 8 to 35V Continuous. The module requires no internal batteries to meet this specification.

MAX. OPERATING CURRENT:
540mA @ 12V, 260mA @ 24V.

MAX. STANDBY CURRENT:
100mA @ 12V, 45mA @ 24V

AUXILIARY RELAY CONTACTS:
1 Amp DC rated voltage free.

DIMENSIONS:

72 x 250 x 77mm
DIN Rail mounted housing.

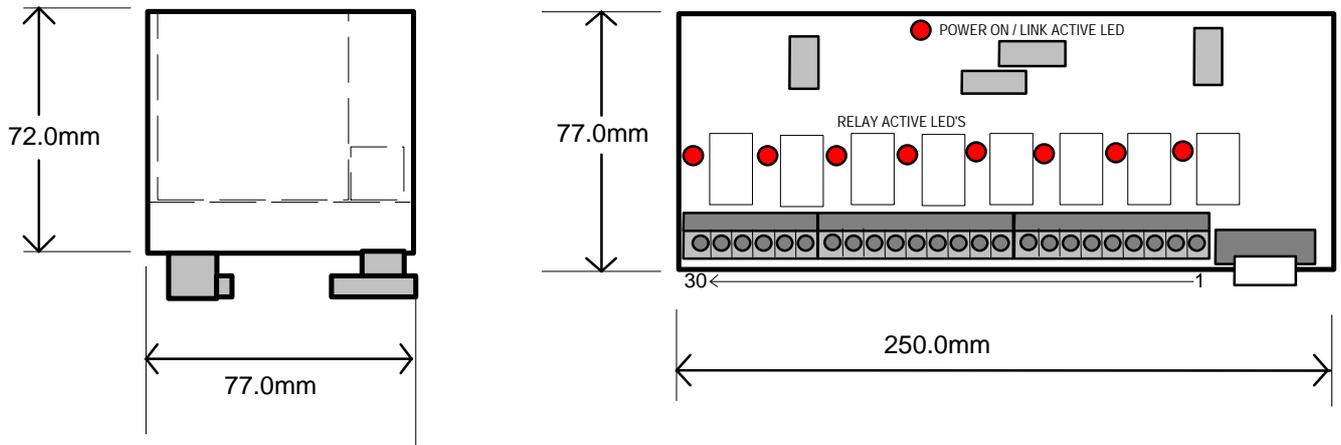
OPERATING TEMPERATURE RANGE:

-15 to +55°C

INDICATIONS:

Combined 'Power On' (*Steady*) and 'Link Active' (*Flashing*) LED
8 Relay active LED's

CASE DIMENSIONS



TYPICAL CONNECTIONS

