



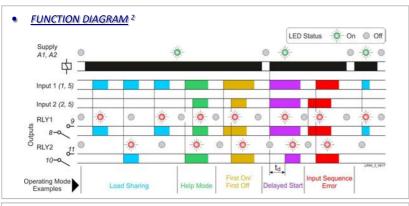
- Designed to balance the operation between motors, compressors, generators, etc
- "Help" function (allows 2nd relay to energise if required)
  - Microprocessor based

- Isolated power supply with wide auxiliary operating supply voltage - 100 - 230V AC/DC
  - Accepts up to 2, Voltage-free, N.O. contacts (i.e. pressure switches, relay contacts)
- Indicates error if inputs are applied in alternative sequence
- 2 x SPNO relay outputs 5A
- Green LED indication for supply status
- Individual Red LED indication for relay status
- Compact 44mm DIN Rail housing
- Other logic/switching patterns available on request<sup>2</sup>
  - Can replace existing M3FFR



<sup>1</sup> Also known as "Load Sharing Relay", "Alternating Relay" or "Flip Flop Relay"

Cert. No. 14125771



## **INSTALLATION AND OPERATION**

Installation work must be carried out by qualified personnel.

- BEFORE INSTALLATION, ISOLATE THE SUPPLY
- Connect the unit as shown in the diagram below and ensure the voltage of the supply to be connected to terminals "6" and "7" is within the voltage rating of this product.
- Connect the external contact for "Input 1" across terminals "1" and "5" and the contact for "Input 2" across terminals "2" and "5".
- The connections to the Output Relays (shown as "RLY1" and "RLY2") should be wired according to the external load they are controlling/switching.
- Note that the LED's correspond to the Relay Outputs as follows: "Output 1" LED = "RLY1" status and "Output 2" LED = "RLY2" status.

## Applying power

- Apply power and the green "Power supply" 6 LED will illuminate.
- If the external contacts are open both the red "Output 1" 10/"Output 2" 2 LED's will remain extinguished.

## Operating the unit (with power applied).

- Close the external contact connected to "Input 1" and "RLY1" relay will energise and corresponding red LED 1 illuminate. Open the contact and "RLY1" will de-energise and red LED extinguish.
- Close the same contact again and now "RLY2" relay will energise and corresponding red LED 2 illuminate. Open the contact and "RLY2" will de-energise and red LED extinguish.
- Next time "Input 1" contact is closed, "RLY1" will re-energise and the alternating sequence between the relays will continue

## "Help" function/feature

With one of the external contacts already closed and output relay energised, closing the second external contact will energise the other relay. This allows both loads to run simultaneously if required. Additionally, if two inputs close simultaneously, there is a 1 second delay (t<sub>d</sub>) in between the other relay energising.

# Troubleshooting

If the unit fails to operate correctly or as described, check the wiring is correct, supply voltage is present and within the operating limits specified. Please also see additional note in the Technical Specification column on the right.

