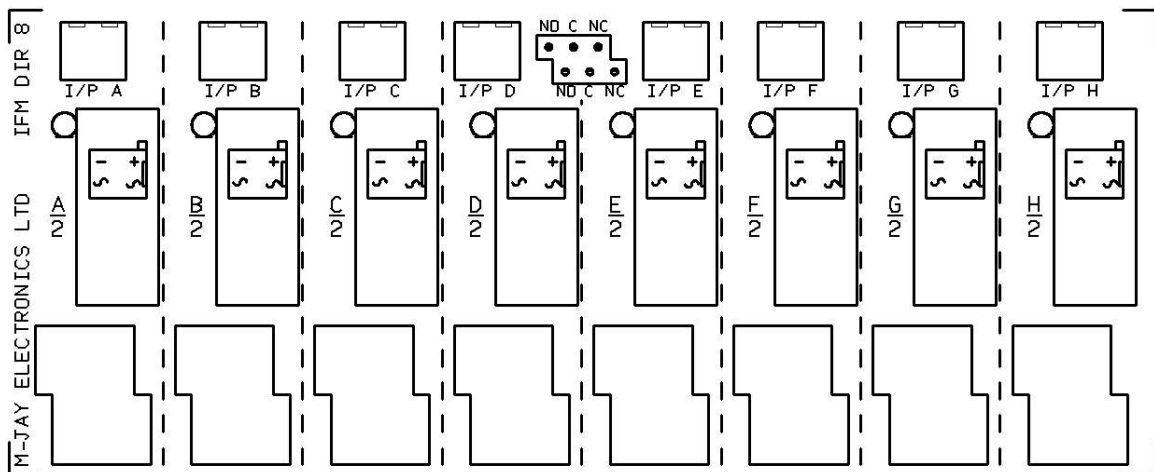


# M-Jay Electronics Limited



## Data Sheet DIR Interface Modules

A range of DIN rail mounting modules that provide 4 or 8 way independent Double Pole Change Over (DPCO) relay connections, with screw terminals on both the input and output that will accept cables upto 4.0mm<sup>2</sup>.

All ways have independent input voltages up to a maximum of 48V dependant on the relays selected. The input voltage can be either AC or DC. Each way offers an LED to indicate a voltage is present at the relay coil.

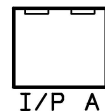
The DPCO relay allows for the selection of two closing contacts, opening contacts or contact change over when an input voltage is applied.

### Product Range

Product Code	N <sup>o</sup> . of ways	Length (mm)	Weight (gram.)	FEC product code
IFM DIR 4	4			382-2746
IFM DIR 8	8	177.5		382-2758

### Input Specification

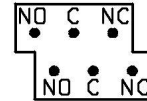
The input terminal blocks are marked I/P. The input voltage will depend on the relay selected, with a maximum voltage of 48V



Nominal Input Voltage	6V	12V	24V	48V
Typical Input Current	81mA	42.5mA	25mA	20mA

## Output Specification

The pin out of the relays are shown on the right. The top row represents one pole of the relay and the bottom row represents the other pole of the relay.



Current Rating            2A    (1mm track width and a 1.125mm gap between tracks)

**Please note** that the limiting factors are the size of the PCB tracks, the distance between adjacent tracks and the environment in which the unit is operating. Exceeding the PCB rating will cause the tracks to fuse, or to flash over between tracks. The maximum rating of the terminals cannot be obtained without damage to the PCB.

## Circuit Board Specification

PCB Material            FR4            1.6mm 35 $\mu$ M

## Housing Specification

Material                Self extinguishing polyamide 6.6 UL 94V-0  
Housing                72mm wide standard DIN rail mounting

## Installation Notes

This interface relay is intended to be accessible to authorised personnel only. It should therefore be installed in a electrical cabinet to which only authorised personnel have access. For the unit to be safely installed there must be no loose items or wires in other parts of the equipment. The interface relay should be mounted on DIN rail via its integral mounting foot.

Protection of the user from electrified parts shall be consistent with your obligations under the Electrical Equipment Safety Regulations and other relevant legislation. The following minimum creep age and clearance distances must be observed:

- 2mm between the interface relay and user accessible parts or parts conductively connected to them.
- 3mm between the interface relay and other parts.
- 6mm between the interface relay and any mains supply connections.

Before applying power to the interface relay, ensure that all connections have been securely made and that the correct input voltage has been selected for the application. Never make or break any connections to the interface relay while power is applied to either the input or output.

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