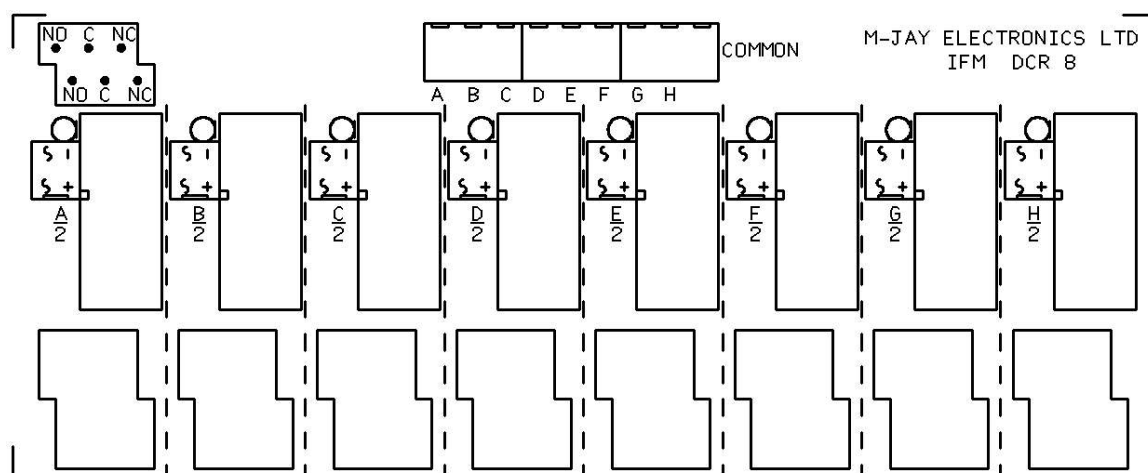


M-Jay Electronics Limited



Data Sheet DCR Interface Modules

A range of DIN rail mounting modules that provide 4 way or 8 way Double Pole Change Over (DPCO) relays connections, with screw terminals on both the input and output that will accept cables upto 4.0mm².

All ways share a common ground, with independent input voltages of 12V, 24V or 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.

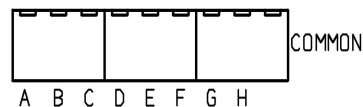
The DPCO relay allows for the selection of two closing contacts, opening contacts or contact change over when an input voltage is applied.

Product Range

Product Code	Number of ways	Length (mm)	Weight (gram.)	Farnell Product code
IFM DCR 4	4			382-2722
IFM DCR 8	8	177.5		382-2734

Input Specification

The input terminal block has 5 input terminals for a 4 way DCR, or 9 input terminals for an 8 way DCR.



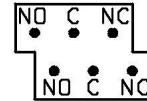
The terminal marked 'A' corresponds to the relay marked 'A', 'B' to 'B', etc.

The terminal marked 'COMMON', is the common ground shared by all the relay coils, and therefore needs to be connected to 0V.

Nominal Input Voltage	6V	12V	24V	48V
Typical Input Current		81mA	42mA	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 35μM

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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