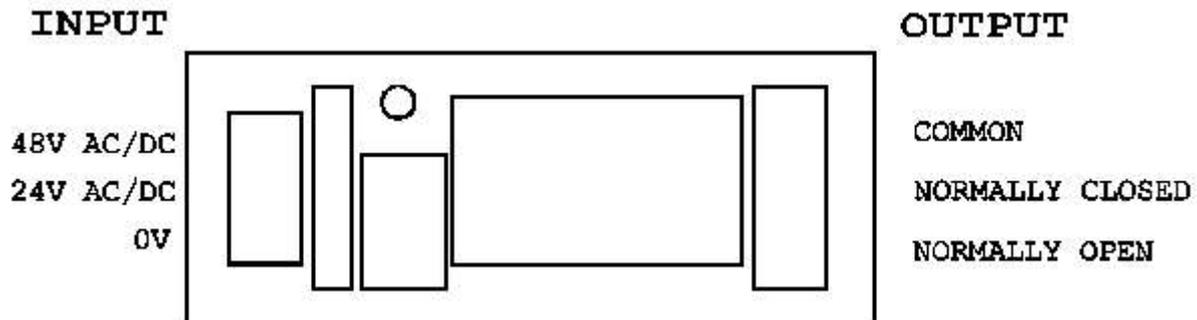


# UNIVERSAL INTERFACE RELAY

## UIR 1B



This DIN rail mounted universal interface, incorporates a single pole changeover relay. It offers two input voltages of 24 volts or 48 volts, which can be either A.C. or D.C. The LED illuminates when the relay coil is energised.

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

### Input Specification

Nominal Input Voltage (AC or DC)	24V	48V
Input Current	20mA	20mA

### Output Specification

Current Rating 3A (2mm track width and a 1.25mm 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.

### Relay Specification

Contact Arrangement	SPCO
Contact Rating	10A @ 240V AC, 30V DC.
Contact Material	Silver Nickel
Coil Consumption	500mW
Operate/Release Speed	10ms/7ms
Temperature range	-40°C to +85°C

### Circuit Board Specification

PCB Material	FR4	1.6mm 35µM
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## Housing Specification

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

## Installation Notes

The interface relays described in these installation notes are suitable for use in electrical equipment consistent with the input and output ratings defined in this data sheet.

This interface relay is intended to be accessible to authorised personnel only. It should therefore be installed in an 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 creepage 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 the correct input voltage has been selected for the application. Only one input voltage must be connected at a time. Never make or break any connections to the interface relay while power is applied to either the input or output.

M-Jay Electronics Limited  
Morley, Leeds, England  
LS27 8LY  
Phone +44 (0)113 252 4956  
FAX +44 (0)113 252 5542