

# IFR3

## INTERFACE RELAY MODULE

### Introduction

The IFR3 is a simple, easy to use interface relay available as a Single Pole IFR3S or Double Pole IFR3D that can operate from a wide range of input voltages (AC or DC).

### Specification

PCB Dimensions 80 x 40 x 30 mm. IFR3S  
80 x 40 x 20 mm. IFR3D

Input Voltage 10 to 32V DC. Cut Link if Voltage is above 18V DC  
8 to 24V AC. Cut Link if Voltage is above 14V AC

Output IFR3S 1 x Changeover Voltage Free Relay contacts.  
Contact rating 240VAC 30VDC @ 10A.

IFR3D 2 x Changeover Voltage Free Relay contacts.  
Contact rating 240VAC 24VDC @ 5A.

### Connections

The 2 terminals marked PWR are connected to a voltage output either AC or DC in the range 10-32V DC or 8-24V AC. The input is not polarity conscious so can be connected either way round. The three way terminals marked NC, C, NO are voltage free changeover contacts.

### Operation

The IFR3 is used to convert a voltage input, AC or DC, from existing equipment to clean contact outputs. These can be used to operate additional equipment requiring a voltage free input or to switch an external power supply, for example to convert an AC output to switch a DC power supply. When a voltage is applied to the terminals marked PWR the relay will operate, when the voltage is removed the relay returns to its normal state. **If the Voltage applied to the PWR terminals exceeds 18Vdc or 14Vac ensure the LINK is cut. Failure to do this will cause damage to the relay.**

Wiring Example showing a method of operating a DC release from an AC lock output. With the second output (IFR3D only) to operate the trigger on an automatic gate controller.

