KMH Design Ltd
Electronic Module Design and Manufacture

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.

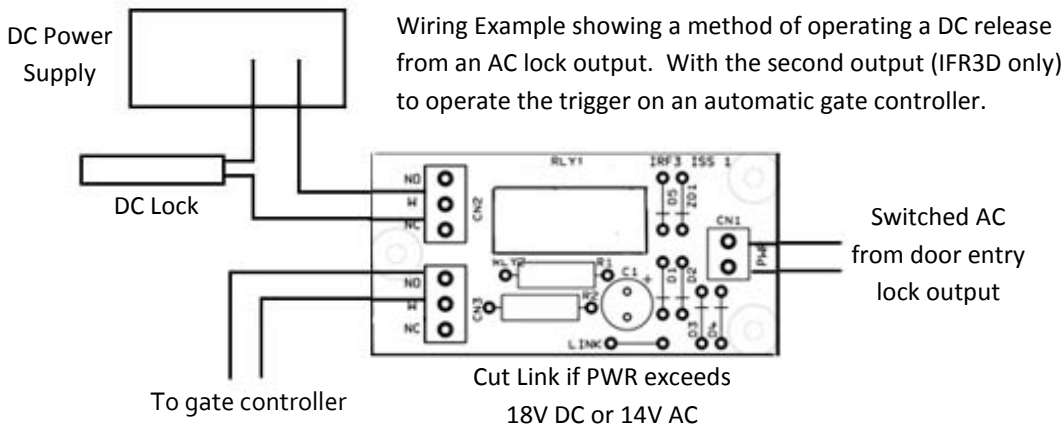
Connection

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 18V DC 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.

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