EV-240V MRA

Installation Leaflet EV-240V MRA Issue 1

CABLING

An approved low voltage terminal block must be used. Unused wires must be terminated in an approved manner.

WIRING NOTES

- There are no user-required settings (such as switches or headers) on the EV-240V MRA.
- 2) All wiring must conform to the current edition of IEE Wiring Regulations and BS5839 part 1.
- 3) All conductors to be free of earths.
- For typical wiring configuration, see Figures 2 to 6.
- The GRY and PNK driver 'O' wires on the EV-240V MRA must not be used in 24V dc and 24V ac applications.
- 6) The EV-240V MRA must be mounted adjacent the EV-MIO or EV-OP. The maximum cable length can not be greater than 1 metre between the EV-240V MRA and the EV-OP/ EV-MIO.

ORDERING INFORMATION

EV-240V MRA F16N82024 High Voltage Relay Interface.

EV-OP F16N82027 Relay Interface Module EV-MIO F16N82026 Small Addressable Mulit-Input/Output module



Fig. 1 EV-240V MRA High Voltage Relay

INTRODUCTION

This document refers to EV-240V MRA with a manufacturing date code of 43-03 or later. When used with a EV-OP, EV-OP PCB must be Issue 9 or later.

The **EV-240V MRA** High Voltage Relay Interface is a non-addressable multi-voltage relay module (operating from 24V dc, 24V ac, 120V ac and 240V ac).

The encapsulated **EV-240V MRA** provides a 10 amp volt-free contact that can be used to extend the contact ratings of EV-OP Addressable Relay Module applications.

A maximum of four **EV-240V MRA** can be individually driven and controlled by an EV-MIO Small Addressable Multi-Input/Output module if all **EV-240V MRA** are powered by 120V ac or 240V ac.

For ac operation, no external dc power supply unit is required to operate the relay. When used to switch 24V dc, the must be provided with an external 24V dc supply which should be switched through the clean relay contacts of an EV-MIO or EV-OP. Installation Leaflet EV-240V MRA Issue 1

TECHNICAL SPECIFICATION EVOLUTION

System Compatibility: Use only with Evolution Fire Alarm Panels (CIE) which support this unit **Environment:** Indoor Application only **Operating Temperature:** -25°C to +70°C Storage Temperature: -40°C to +80°C **Operating Humidity:** Up to 95% non-condensing **Dimensions (HWD):** Module: 26.5 x 42 x 74mm **Electrical Characteristics:**

Input Voltages: 24V dc, 24V ac, 120V ac, 240V ac Contact Rating: 8A @ 28V dc 10A @ 28V ac and 120V ac 5A @ 240V ac (resistive)

ELECTROMAGNETIC COMPATIBILITY

The EV-240V MRA complies with the following:

Product family standard EN50130-4 in respect of Conducted Disturbances, Radiated Immunity, Electrostatic Discharge, Fast Transients and Slow High Energy EN61000-6-3 for emissions

FEATURES

The **EV-240V MRA** is contained on a single sided PCB which is fitted to a plastic tray and then potted (as Fig. 1).

MOUNTING

The EV-240V MRA may be mounted in any suitable

electrical box. Terminal blocks complying with the

EC Low Voltage Directive must be used when 120V

ac and 240V ac voltages are used. A warning label

must be fitted to the electrical box and EV-OP

In all 24V dc and 24V ac applications, all unused

In 120V ac and 240V ac applications,

mains voltages (120V ac 0R 240V ac)

unused wires. In all these applications

all unused EV-240V MRA wires must

be individually isolated and insulated

to prevent risk of electricak shorting

will be present on some of the

EV-240V MRA wires must be individually

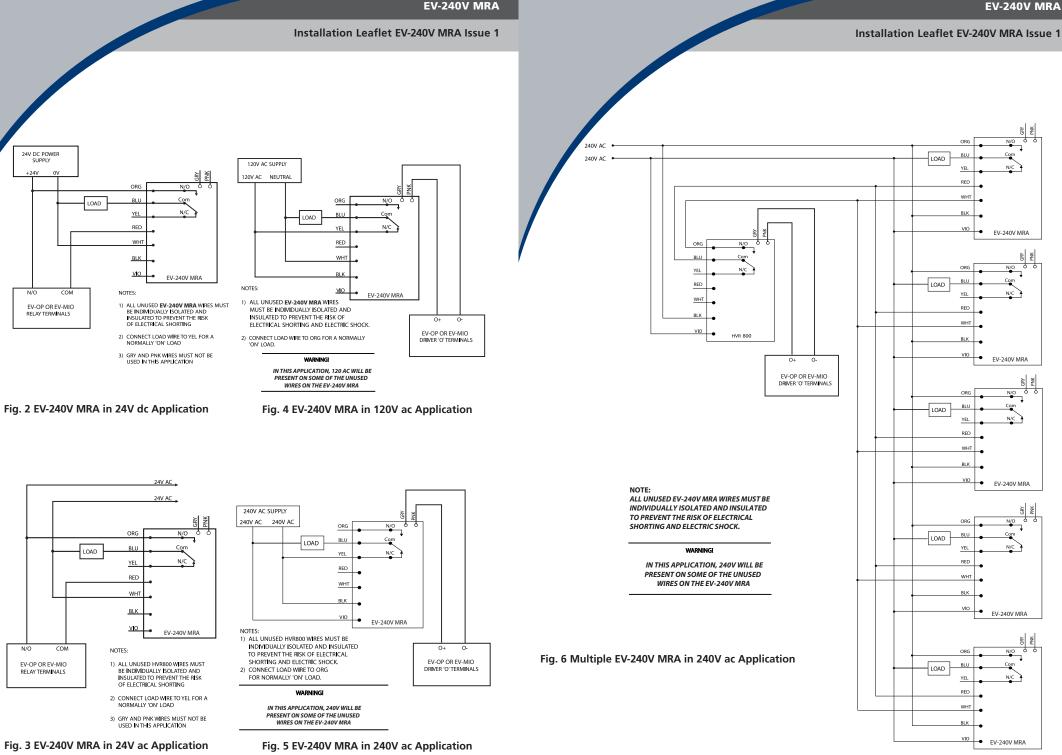
isolated and insulated to prevent the risk

and electric shock.

when mains voltages are used.

of electrical shorting.

Warning:



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