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

1) There are no user-required settings (such as

switches or headers) on the EV-240V MRA.

3) All conductors to be free of earths.

2) All wiring must conform to the current edition

4) For typical wiring configuration, see Figures 2

5) The GRY and PNK driver 'O' wires on the

EV-240V MRA must not be used in 24V dc

6) The EV-240V MRA must be mounted adjacent

the EV-MIO or EV-OP. The maximum cable

between the EV-240V MRA and the EV-OP/

length can not be greater than 1 metre

of IEE Wiring Regulations and BS5839 part 1.

Installation Leaflet EV-240V MRA Issue 1





Fig. 1 EV-240V MRA High Voltage Relay

EVOLUTION

System Compatibility:

Fire Alarm Panels (CIE)

Operating Temperature: -25°C to +70°C **Storage Temperature:** -40°C to +80°C Operating Humidity: **Up to 95%**

Dimensions (HWD):

Module: 26.5 x 42 x 74mm

Electrical Characteristics:

Input Voltages: 24V dc, 24V ac, 120V ac, 240V ac

TECHNICAL SPECIFICATION

Use only with Evolution

which support this unit

Environment: Indoor Application only

non-condensing

Contact Rating: 8A @ 28V dc 10A @ 28V ac and 120V ac 5A @

240V ac (resistive)

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 when mains voltages are used.

In all 24V dc and 24V ac applications, all unused EV-240V MRA wires must be individually isolated and insulated to prevent the risk of electrical shorting.

Warning:

In 120V ac and 240V ac applications, mains voltages (120V ac 0R 240V ac) will be present on some of the unused wires. In all these applications all unused EV-240V MRA wires must be individually isolated and insulated to prevent risk of electricak shorting and electric shock.

ORDERING INFORMATION

EV-MIO.

and 24V ac applications.

CABLING

approved manner.

WIRING NOTES

EV-240V MRA F16N82024 High Voltage Relay Interface.

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

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.

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).

Installation Leaflet EV-240V MRA Issue 1

Installation Leaflet EV-240V MRA Issue 1

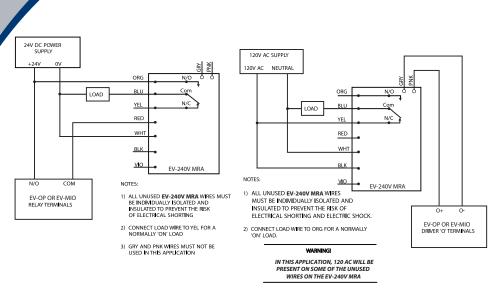


Fig. 2 EV-240V MRA in 24V dc Application

Fig. 4 EV-240V MRA in 120V ac Application

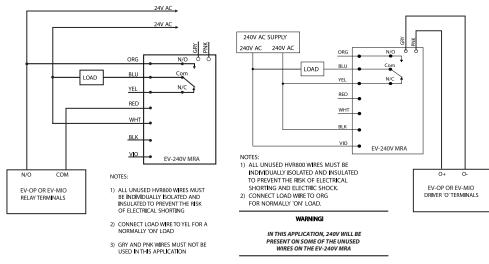


Fig. 3 EV-240V MRA in 24V ac Application

Fig. 5 EV-240V MRA in 240V ac Application

