



by Honeywell

# MR and PAM Series

## Description

The Gamewell-FCI, MR and PAM Series both offer multi-voltage control relays with SPDT or DPDT 10.0 amp (7.0 amp with PAM-2) contacts which may be operated by one of four input control voltages. A single relay may be energized from any of the following voltage sources when you wire to the appropriate input terminals.

- 24 VDC
- 24 VAC
- 115 VAC
- 230 VAC

Each relay position contains a red LED which indicates that the relay coil is energized. The relays are available in a four-module assembly and the relays may be snapped apart and used independently.

The PAM relays are encapsulated multi-voltage devices, providing 10.0 amp Form-C contacts (7.0 amp with PAM-2). The relay may be energized by any one of the following three voltages.

- 24 VDC
- 24 VAC
- 115 VAC

The relay is supplied with a red LED which indicates that the coil is energized.

## Standard Application

The MR and PAM Series are ideal when remote relays are required for control, general purpose switching, or status feedback. They are suitable for use in the following applications.

- fire alarm
- security
- lighting control
- HVAC
- energy management

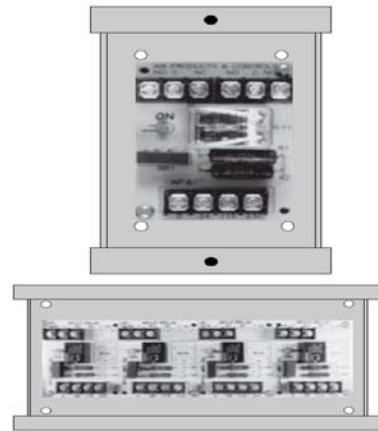
## Installation

The MR Series relays may be mounted in a control panel or supplied with either a four-position or single-position metal enclosure.

To mount the PAM relays, you can use any of the following:

- Double-sided adhesive tape
- Self-drilling screw
- Loosely installed in a backbox

## Multi-Voltage Control Relays



MR and PAM Series

## Features

- Complies with the UL-Listed Standard for a Control Unit Accessory.
- Available in dust-proof metal enclosure with an LED viewing port.
- Includes the track-mounting hardware to facilitate ease of installation.
- Suitable for use with fire alarm, HVAC, energy management and lighting control systems.
- Contains a red LED annunciation when the relay coil is energized.



## Specifications

### Input Power

MR-101	MR-210	PAM-1
24 VDC	24 VDC	24 VDC
24 VAC	24 VAC	24 VAC
115 VAC	115 VAC	115 VAC
230 VAC	230 VAC	

### Contact Rating

MR Series	PAM-1	PAM-2
10.0 A @ 115 VAC	10.0 A @ 115 VAC	7.0 A @ 115 VAC
	7.0 A @ 28 VDC	7.0 A @ 28 VDC
	250 NA @ 5 VDC	250 NA @ 5 VDC

**Temperature Rating:** -50°C to 85°C (-58°F to 185°F)

### Dimensions:

<b>MR-101/T, MR201/T</b>	2.125" W x 3.0 H x 1.5" D (cm: 7.62 H x 5.398 W x 3.81 D)
<b>MR-104/T, MR-204/T:</b>	3.0" H x 8.5" W x 1.5" D (cm: 7.62 H x 21.59 W x 3.81 D)
<b>MR-101/CR, MR-210/CR:</b>	6.125" H x 3.25" W X 2.5" D (cm: 15.556 H x 16.51 W x 6.35 D)
<b>MR-104/CR, MR-204/CR:</b>	6.125" H x 6.5" W x 2.5" D (cm: 15.556 H x 16.51 W x 6.35 D)
<b>PAM-1:</b>	1.15" H x 1.0" W x 5.75" D (cm:3.0 H x 2.54 W x 14.605 D).

## Ordering Information

### Part Number

<b>MR-101/T</b>	Single SPDT relay with LED and track-mounting hardware.
<b>MR-101/CR</b>	Single SPDT relay with LED mounted in metal enclosure.
<b>MR-104/T</b>	Four-position SPDT relay with LEDs and track-mounting hardware.
<b>MR104/CR</b>	Four-position SPDT relay with LEDs mounted in metal enclosure.
<b>MR-201/T</b>	Single DPDT relay with LED and track-mounting hardware.
<b>MR-201/CR</b>	Single DPDT relay with LED mounted in metal enclosure.
<b>MR-204/T</b>	Four-position DPDT relay with LEDs mounted in track-mounting hardware.
<b>MR-204/CR</b>	Four-position DPDT relay with LEDs mounted in metal enclosure.
<b>PAM-1</b>	Single SPDT relay with LED, double-sided adhesive, mounting screw, 12" (30.48 cm) leads and 6 wire nuts.
<b>PAM-2</b>	Single SPDT relay with LED, double-sided adhesive, mounting screws, 12" (30.48 cm) leads and six wire nuts.

### GAMEWELL-FCI