Addressable Devices

Velociti® Series MMO-6RF

Multi-Mod Relay Output Module

General

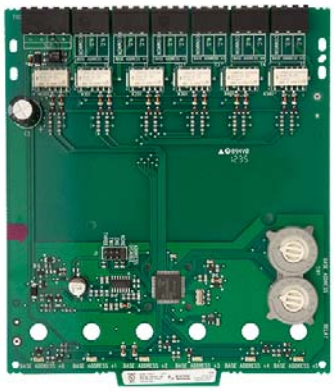
The Gamewell-FCI Velociti® Series, multi-mod six relay output module (MMO-6RF) provides six Form "C" control relay outputs on one board. Its compact design affords ease of installation while using a minimum of wall space.

The Velociti Series use a communication protocol that substantially increases the speed of communication between the sensors and certain Gamewell-FCI analog addressable fire alarm controls. These devices operate in a grouped fashion. If one of the devices in the group has a status change, the panel's microprocessor stops the group poll and concentrates on the single device. The net effect is response speed up to five times greater than earlier designs.

The MMO-6RF connects to the signaling line circuit (SLC) of the Gamewell-FCI analog addressable series fire alarm control panels. Each relay circuit on the MMO-6RF occupies its own address on the control panel's SLC and can be programmed to respond to its own individual control-by-event sequence of operation. The address of the first relay is set by a pair of rotary code switches on the MMO-6RF. Each remaining relay circuit is automatically assigned to its own subsequent address.

The MMO-6RF module includes an address disable switch that allows one, two, or three addresses to be turned off to free these addresses for other purposes.

Each relay has its own status LED that flashes to indicate proper polling and lights steady when the circuit has been activated.



MMO-6RF

Two multi-mod series units can be mounted in one MBB-2 cabinet. Additional mounting options include the MCH-6 chassis that can accommodate six multi-mod series modules. The MCH-6 chassis can be installed in custom cabinets or mounted in the MBB-6 cabinet.

The multi-mod series is suitable for use in applications where the centralized location of circuits is required. As many as thirty-six Form "C" relays may be located in a cabinet that is only 12.63" H x 24" W x 6.5" D in dimensions. This feature saves valuable wall space in mechanical rooms and electrical closets as well as reduces the cost of the installation.

Ordering Information

MMO-6RF: Multi-mod relay output

MBB-2: Backbox, 2 unit

MBB-6: Backbox, 6 unit, requires MCH-6

MCH-6: 6-Unit mounting chassis

FEATURES & BENEFITS

- Each module provides six individually addressed, individually programmable form "C" relays
- Includes removable wiring terminal blocks that allow ease of installation and servicing
- Terminal blocks can accommodate 12 to 18 AWG wire
- Provides a flexible jumper configuration feature that allows up to three relay addresses to be disabled
- Offers a wide range of contact ratings
- Designed for Gamewell-FCI analog addressable series fire alarm control panels
- Displays individual LED indicators*
- Suitable for retrofit applications
- Ideal for applications such as elevator control, AHU control, door holder release or similar functions requiring multiple relay outputs
- Contains two mounting cabinets available for two ((MBB-2 cabinet) to six (MBB-6 cabinet) units

Note: Only the red LED is operative in panels that do not operate in Velociti® mode.

Velociti® Series MMO-6RF Technical Specifications

SYSTEM

Operating Voltage: 15-32 VDC
Stand-by Current: 1.45 mA
Alarm Current: 32 mA (with all six relays activated and all six LEDs lit)
Relay Current: 30 mA/ relay pulse
Relay Contact Ratings: See Table 1
32° F to 120° F (0° to 49° C)
Temperature Range:
Humidity: 10 to 85% (non-condensing)
Dimensions: 6.8" H x 5.8" W x 1.0" D
(17.3 x 14.7 x 2.5 cm)
MBB-2: 12.25" H x 9.25" W x 3.32" D
(31.1 x 23.5 x 8.4 cm)
MBB-6: 12.63" H x 24" W x 6.5" D
(32.1 x 60.1 x 16.5 cm)

Current Rating	Maximum Voltage	Load Description	Application
3A	30 VDC	Resistive	Non-coded
2A	30 VDC	Resistive	Coded
1A	30 VDC	Inductive (L/R= 2ms)	Coded
0.5A	30 VDC	Inductive (L/R= 5ms)	Coded
0.9A	110 VDC	Resistive	Non-coded
0.9A	125 VAC	Resistive	Non-coded
0.7A	70.7 & VAC	Inductive (PF= 0.35)	Non-coded
0.5A	125 VAC	Inductive (PF= 0.35)	Non-coded

Table 1: Contact Ratings

TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

STANDARDS

The Velociti® Series MMO-6RF is designed to comply with the following standard:
UL Standard: UL 864 9th Edition

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.
UL: S1913
FM: 3023594
MEA FDNY: 219-02-E Vol. VI
CSFM: 7300-1703-0124
ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

For more information
Learn more about Gamewell-FCI's Velociti® Series MMO-6RF and other products available by visiting www.Gamewell-FCI.com

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