

Description

The FCI Velociti™ Series, multi-mod six signal output module (MMO-6SF) provides six (6), Style Y (Class B) or three (3), Style Z (Class A) supervised control circuits suitable for a wide range of signaling applications. Each supervised circuit may be used as a:

- Audio speaker circuit.
- Notification appliance circuit.
- Supervised control output.

The Velociti™ Series use a communication protocol that substantially increases the speed of communication between the sensors and certain FCI analog addressable fire alarm control panels. 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-6SF connects to the signaling line circuits (SLC) of the FCI analog addressable series fire alarm control panels. Each of the MMO-6SF supervised control circuits occupies its own address on the system's SLC allowing each to be fully programmable in its control-by-event sequence of operation.

The address of the first supervised output circuit is set with a pair of rotary dials. Each remaining circuit is automatically assigned to its own subsequent address. The MMO-6SF module includes an address disable jumper matrix that allows one, two, or three addresses to be turned off to free these addresses for other purposes. An additional jumper setting selects either Style Y or Style Z circuit configurations. A wide range of configurations are possible including 30 VDC, audio input at 25 or 70.7 V_{RMS}, 125 VAC, etc. More than one circuit can share a power supply if the current capacity does not exceed the power supply's output.

Velociti™ and E3 Series™ are trademarks of Fire Control Instruments.

Multi-MOD Six Signal Output Module



MMO-6SF

Features

- Each MMO-6SF module provides six (6), Style Y (Class B) or three (3), Style Z (Class A) individually addressable, individually programmable notification appliance or supervised output circuits.
- Removable wiring terminal blocks allow ease of installation and servicing.
- Terminal blocks can accommodate 12 to 18 AWG wire.
- Flexible jumper configuration feature allowing up to three (3), output circuit addresses to be disabled.
- Accommodates multiple external power inputs.
- External power monitoring.
- Short circuit protection of external power supplies.
- Sources providing AC, DC, or audio inputs.
- Designed for use with FCI analog addressable series fire alarm control panels.
- Individual LED indicators*.
- Ideal for retrofit applications.
- Two (2), mounting cabinets available for two (2), (MBB-2 cabinet) to six (6), (MBB-6 cabinet) units.

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

An ISO 9001-2000 Company

SIGNALING



MEA

LISTED

APPROVED

Approved

S1949

3023594

227-03-E Vol.IV

07300-0694:266



GAMEWELL-FCI

12 Clintonville Road, Northford, CT 06472 - Tel: (203) 484-7161 - Fax: (203) 484-7118

Specifications are for information only, are not intended for installation purposes, and are subject to change without notice. No responsibility is assumed by Gamewell-FCI for their use.

©2006 Gamewell-FCI. All rights reserved.

www.gamewell-fci.com

9020-0634 Rev. C page 1 of 2

Description (continued)

Each output circuit on the MMO-6SF monitors its own connection to its power supply and will indicate a fault condition by address if the power source should fail. The MMO-6SF is also provided with short circuit monitoring to protect the external power source from short circuits on the notification appliance circuit wiring. This feature can be disabled per individual circuit if the application requires.

(Note: power supply monitoring must also be disabled in such cases.)

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

Two (2), 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 a custom cabinet or can be mounted in the MBB-6 cabinet allowing up to six (6), multi-mod series modules in one cabinet.

The MMO-6SF is ideal for applications where centralized location of circuits is required. As many as thirty-six (36), supervised output circuits may be located in a cabinet that is only 12.63" H x 24" W x 6.5" D in dimension saving valuable wall space in mechanical rooms and electrical closets and reducing cost of installation.

Specifications

| | |
|-------------------------------------|--|
| Operating Voltage: | 15-32 VDC |
| Stand-by Current: | 2.25 mA |
| Alarm Current: | 40 mA (with all six LEDs lit) |
| Maximum IDC Wire Resistance: | 25 Ohms |
| Temperature Range: | 32° F to 120° F (0° to 49° C) |
| Humidity: | 10 to 85% (non-condensing) |
| Dimensions: | 6.8" H x 5.8" W x 1.25" D (17.3 x 14.7 x 3.2 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 x 60.1 x 16.5 cm) |
| External Supply Voltage | |
| DC Voltage: | 18-28 Volts, Power-limited |
| Ripple Voltage: | 0.1 Volts rms maximum |
| Current: | 90 mA per Module |

Contact Ratings

| 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 |

Ordering Information

| Model | Description |
|---------|-----------------------------------|
| MMO-6SF | Multi-Mod 6 zone interface module |
| MBB-2 | Backbox, 2 unit |
| MBB-6 | Backbox, 6 unit, requires MCH-6 |
| MCH-6 | 6-Unit mounting chassis |

GAMEWELL-FCI

12 Clintonville Road, Northford, CT 06472 - Tel: (203) 484-7161 - Fax: (203) 484-7118

www.gamewell-fci.com

9020-0634 Rev. C page 2 of 2