Addressable Devices

Velociit® Series MMO-6SF

Multi-MOD Six Signal Output Module

General

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

• Audio speaker circui • 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 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-6SF connects to the signaling line circuits (SLC) of the Gamewell-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 that allows 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.


MMO-6SF

FEATURES & BENEFITS

- Each MMO-6SF module provides six Style Y (Class B) or three Style Z (Class A) individually addressable, individually programmable notification appliance or supervised output circuits
- Includes removable wiring terminal blocks allow ease of installation and servicing
- Terminal blocks can accommodate 12 to 18 AWG wire
- Contains external power monitoring
- Provides a flexible jumper configuration feature that allows up to three output circuit addresses to be disabled
- Accommodates multiple external power inputs
- Ideal for retrofit applications
- Short circuit protection of external power supplies
- Sources providing AC, DC, or audio inputs
- Designed for use with Gamewell-FCI analog addressable series fire alarm control panels
- Displays individual LED indicators*
- Offers 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.

General

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 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 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 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.

Ordering Information

MMO-6SF: Multi-Mod 6 zone interface module
MBB-2: Backbox, 2 unit
MBB-6: Backbox, 6 unit, requires MCH-6

Velociit® Series MMO-6SF Technical Specifications

SYSTEMS

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:
- **MCH-6:** 6-Unit mounting chassis
  12.25" H x 9.25" W x 3.32" D
  (31.1 x 23.5 x 8.4 cm)
- **MBB-6:** 6.8" H x 5.8" W x 1.25" D
  (17.3 x 14.7 x 3.2 cm)
- **MBB-2:** 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,
  Class 2 Power-Limited
- **Ripple Voltage:** 0.1 Volts rms maximum
- **Current:** 90 mA per module

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-6SF 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. IV
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

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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 Velociit® Series MMO-6SF and other products available by visiting www.Gamewell-FCI.com

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