

# Velociti® Series MMI-6SF

## Multi-Mod Six Zone Interface Module

### GENERAL

The Velociti® Series, multi-mod six zone interface module (MMI-6SF) provides six Style B (Class B) or three Style D (Class A) supervised initiating device circuits (IDC) suitable for use with UL® Listed conventional 2-wire smoke detectors as well as any normally open contact device.

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 MMI-6SF connects to the signaling line circuits (SLC) of the Gamewell-FCI analog addressable series fire alarm control panels. Each of the MMI-6SF initiating device 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 initiating device circuit is set with a pair of rotary dials. Each remaining circuit is automatically assigned to its own subsequent address. The MMI-6SF module includes an address disable jumper matrix to allow a maximum of two unused addresses to be turned off to free these addresses for other purposes. An additional pair of jumpers selects either Style B or Style D circuit configurations.

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 initiating device circuit of the MMI-6SF can support a maximum line resistance of up to 40 ohms allowing the use of linear heat detection devices. The MMI-6SF is ideal for applications where centralized location of circuits is required. As many as sixty initiating device 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.

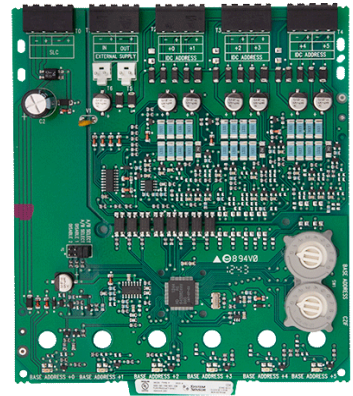
### Ordering Information

**MMI-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



MMI-6SF

## FEATURES & BENEFITS

- |   |   |   |  |  |
|---|---|---|--|--|
| <ul style="list-style-type: none"> <li>• Each MMI-6SF module provides six Style B (Class B) or three Style D (Class A) individually addressable individually programmable initiating Device circuits</li> </ul> | <ul style="list-style-type: none"> <li>• Suitable for use with UL® Listed, compatible 2-wire conventional smoke sensors and normally open contact devices</li> <li>• Includes removable wiring terminal blocks that allow ease of installation and servicing</li> </ul> | <ul style="list-style-type: none"> <li>• Terminal blocks can accommodate 12 to 18 AWG wire</li> <li>• Provides a flexible jumper configuration feature that allows one or two monitoring circuit addresses to be disabled</li> <li>• Displays individual LED indicators*</li> </ul> | <ul style="list-style-type: none"> <li>• Ideal for retrofit applications</li> <li>• Designed to contain as many as thirty-six initiating device circuits in one 12" x 24" x 6.5" cabinet</li> <li>• Offers two mounting cabinets available for two (MBB-2 cabinet) to</li> </ul> | <ul style="list-style-type: none"> <li>• six (MBB-6 cabinet) units</li> <li>• Bi-color LEDs flash green whenever the sensor is addressed, and light steady red on alarm*</li> </ul> <p>Note: *Only the red LED is operative in panels that do not operate in Velociti® mode.</p> |
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# Velociti® Series MMI-6SF Technical Specifications

## SYSTEM

**Operating Voltage:** 5-32 VDC

**Stand-by Current:** 2 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  
(32.1 x 70.0 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 circuit

## 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 MMI-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 Velociti® Series MMI-6SF and other products available by visiting [www.Gamewell-FCI.com](http://www.Gamewell-FCI.com)

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