



by Honeywell

Velociti[®] Series MCS-ACCLIMATE2F

Description

The Gamewell-FCI Velociti[®] Series, MCS-ACCLIMATE2F sensor is an analog, addressable, multi-sensing, low-profile sensor designed for use with the Gamewell-FCI analog addressable fire alarm control panels.

The MCS-ACCLIMATE2F sensor uses a combination of photoelectronic and thermal sensing technologies that are designed to increase immunity to false alarms. Unlike traditional addressable devices, the MCS-ACCLIMATE2F sensor has a microprocessor in the sensor head that processes alarm data. As a result, the MCS-ACCLIMATE2F sensor automatically adjusts its sensitivity, without requiring operator intervention.

Areas where the MCS-ACCLIMATE2F sensor is especially useful include office complexes, schools, college campuses, manufacturing and industrial facilities, and anywhere else where the use of a particular area may change. One day a conference room, tomorrow a kitchen, the next day a copy machine room — the MCS-ACCLIMATE2F sensor automatically adjusts its sensitivity to the environment!

The Velociti[®] Series uses a communication protocol that substantially increases the speed of communication between the sensors and 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 identifies the single device with the status change. The net effect is response speed up to five times greater than earlier designs.

Multi-Criteria Analog, Addressable Sensor



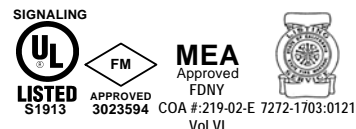
MCS-ACCLIMATE2F

Features

- Designed with a sleek, low-profile design.
- Has a visual rotary, decimal switch addressing range of (01-159).
- Built-in functional test switch activated by an external magnet.
- Displays bicolor LEDs flash green whenever the sensor is addressed, and light steady red on alarm.*
- Automatically adjusts sensitivity levels without the need for operator intervention or programming sensitivity increases with heat.
- Provides microprocessor-based, combination photo and thermal technology.
- Capable of heat-only alarm mode, enabled by a special command from the E3 Series[®] or S3 Series panel, and smoke alarms are then ignored.
- Low-temperature signal at 45°F (7.2°C) +/- 10°F (5.5°C).
- Compatible with the Gamewell-FCI analog addressable panels.
- Suitable for installation in ducts.
- Offers the relay, isolator and sounder base options.

*Only the red LED is operative in panels that do not operate in Velociti[®] mode.

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12 Clintonville Road, Northford, CT 06472-1653 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

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Installation

MCS-ACCLIMATE2F plug-in sensors use a separate base to simplify installation, service, and maintenance. A special tool allows maintenance personnel to plug-in and remove sensors without using a ladder.

Mount the base on a box which is at least 1.5" (3.8 cm) deep. Suitable mounting base boxes include:

- 4.0" (10.2 cm) square box.
- 3.5" (8.9 cm) or 4.0" (10.2 cm) octagonal box.
- Single-gang box (except relay or isolator base).
- With the B200S or B200SR base, mounted on an octagonal or a 4.0" (10.2 cm) square box.
- With the B224RB or B224BI base, mounted on a 3.5" (8.9 cm) octagonal box, or a 4.0" (10.2 cm) octagonal or square box.

NOTE: Because of the inherent supervision provided by the SLC, end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class "B") wiring.

Sensor Spacing

GameWell-FCI recommends that the spacing sensors be used in compliance with NFPA 72.

Application Note

The MCS-ACCLIMATE2F sensor has the unique ability to adjust sensitivity according to the environment, based on heat and smoke levels. Avoid installing these sensors in locations that are susceptible to high or rapidly fluctuating temperatures. An example of an incorrect application would be near or in line with the output of a heating unit.

Specifications

MCS-Acclimate2F:

Dimensions: 1.7" (45 mm) Height
Diameter: 4.1" (104 mm) installed in the B501 base.
6.1" (155 mm) installed in the B210LP base.
6.875" (17.46 cm) installed in the B200/B200SR base.
Shipping weight: 5.0 oz. (142 g)

Operating Temperature Range: 32° F to 100° F (0° to 38° C)
UL®-Listed Velocity: 0-4,000 ft./min. (1219.2 m/min.), suitable for installation in ducts.
Relative Humidity: 10-93% (non-condensing)
Thermal Ratings: Fixed-temperature setpoint 135° F (57° C)

Electrical Specifications

Voltage Range: 15 – 32 volts DC
Standby Current: .0003A @ 24 VDC
(One communication every 5 seconds with LED blink enabled).

Maximum Alarm Current: .0065A @ 24 VDC (LED lit)

Bases and Options

B501 Plug-in sensor base without flange
Dimensions: 4.1" (10.4 cm) diameter
B210LP Flanged mounting base
Dimensions: 6.1 (15.5 cm) diameter
B210LPBP Flanged mounting base bulk pack
Dimensions: 6.1" (15.5 cm) diameter
B224RB Plug-in sensor base with auxiliary relay,
Relay Base SPDT, rated 2 amps @ 30 VDC (resistive).
Screw Up to 14 AWG (2.0 mm²)
Terminals: 2 coil latching relay 1 Form C contact UL/CSA Rating:
0.9 A @ 125 VAC, inductive
0.9 A @ 110 VDC, inductive
3 A @ 30 VDC, resistive
Dimensions: 6.1"(15.5 cm) diameter
B224BI Isolator Base
Maximum: 25 devices between isolator bases.
Dimensions: 6.1" (15.5 cm) diameter
B200S Intelligent sensor sounder base
Dimensions: 6.875" (17.5 cm) diameter
B200SR Standard sounder base, UL Standard 864 9th Edition compliant, ULC Listed.
Dimensions: 6.875" (17.5 cm) diameter
RA-100Z Remote LED Annunciator
BCK-200 Black detector covers (box of 10)

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