Velociti® Series
ASD-IL2F

Description

The Gamewell-FCI Velociti® Series, analog address-able plug-in smoke sensors with integral communi-cation provide features that surpass conventional sensors. Sensor sensitivity can be programmed in the control panel software. Sensitivity is continu-ously monitored and reported to the panel. Point ID capability allows each sensor's address to be set, providing exact locations for selective maintenance when the chamber contamination reaches an unac-ceptable level. The ASD-IL2F ionization sensor incorporates a unique single-source, dual-chamber design to respond quickly and dependably to a broad range of fires.

The Velociti® Series use a communication protocol that substantially increases the speed of communi-cation 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.

Ordering Information

Model	Description
ASD-IL2F	Analog, Addressable Ionization Smoke Sensor

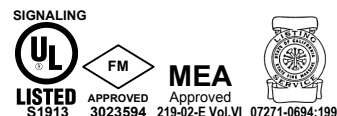## Analog, Addressable Ionization Smoke Sensor

ASD-IL2F

Features

- Sleek, low-profile design
- Visual rotary switch addressing
- Built-in functional test switch activated by an external magnet
- Bicolor LEDs flash green whenever the sensor is addressed, and light steady red on alarm*
- Optional relay, isolator, or sounder bases
- Low standby current
- Addressable-analog communication
- Stable communication technique with noise immunity
- Optional remote, single-gang LED accessory RA400Z
- Suitable for installation in ducts

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

An ISO 9000-2000 Company

SIGNALING

UL LISTED S1913   FM APPROVED 3023594   MEA Approved 219-02-E Vol.VI   07271-0694:199

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Installation

ASD-IL2F plug-in sensors use a separate base to simplify installation, service, and maintenance. A special tool allows maintenance personnel to plug-in and remove the 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 B501BH or B501BHT base, use a 4.0" (10.2 cm) square box.
- With B224RB or B224BI base, use 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 spacing sensors in compliance with NFPA 72. In low airflow applications with smooth ceilings, space detectors 30 feet (9.144 m). For specific information regarding sensor spacing, placement, and special applications, refer to NFPA 72.

Specifications

Size	2.1" (5.1 cm) high x 4.1" (10.4 cm) diameter installed in B501 base, 6.1" (15.5 cm) diameter installed in ADB-FLF base
Shipping Weight	5.4 oz. (154 g)
Operating Temperature	32° F to 120° F (0 to 49° C)
UL®-Listed Velocity Range	0-1200 ft./min. (365.8 m/min.)
Relative Humidity	10-93% (non-condensing)

Electrical Specifications

Voltage Range	15 – 32 volts DC peak.
Standby Current	.0003A @ 24 VDC (One communication every 5 seconds with LED enabled)
Maximum Alarm Current	.0065A @ 24 VDC (LED lit)

Bases and Options

ADB-FLF	6.1" (15.5 cm) diameter
B501	4.1" (10.4 cm) diameter
B501BH or B501BHT	Sounder base assembly (B501BHT produces a Temporal Pattern) Includes B501 base
B224RB Relay Base	**Screw terminals:** Up to 14 AWG (2.0 mm^2) **Relay type:** Form-C **Rating:** 2.0A @ 30 VDC resistive 0.3 A @ 110 VDC inductive 1.0 A @ 30 VDC inductive
B224RB Relay Base Dimensions	6.2" x 1.2" (15.7 x 3.0 cm)
B524BI Isolator Base Dimensions	6.2" x 1.2" (15.7 x 3.0 cm) Maximum: 25 devices between isolator bases.
RA-400Z	Remote alarm indicator, LED
BCK-200	Black detector covers (box of 10)