# Velociti® Series
# ASD-IL2F

## Description

The Gamewell-FCI Velociti® Series, analog addressable plug-in smoke sensors with integral communication provide features that surpass conventional sensors. Sensor sensitivity can be programmed in the control panel software. Sensitivity is continuously 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 unacceptable 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 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 identifies the single device with the status change. The net effect is response speed up to five times greater than earlier designs.

## 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 B200S or B200SR base, mounted on a 4.0" (10.2 cm) octagonal or square box.
- With 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, the 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.

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Analog, Addressable Ionization Smoke Sensor



ASD-IL2F

## Features

- Designed with a sleek, low-profile design.
- Has a visual rotary address switch setting 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 lights steady red on alarm.*
- Includes optional relay, isolator, or sounder bases.
- Shows low standby current.
- Supports addressable-analog communication.
- Uses a stable communication technique with noise immunity.
- Offers an optional remote, single-gang LED accessory RA100Z.
- Suitable for installation in ducts.
- Compatible with the Gamewell-FCI analog addressable panels.

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

SIGNALING UL LISTED S1913 FM APPROVED 3023594 MEA Approved FDNY COA #:219-02-E Vol.VI 7271-1703:0104

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS

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## Specifications

**ASD-IL2F**

| | |
|---|---|
| **Dimensions:** | 2.1" (5.1 cm) Height<br>4.1" (10.4 cm) diameter, installed in the B501 base.<br>6.1" (15.5 cm) diameter, installed in the B210LP base. |
| **Shipping Weight:** | 5.4 oz. (153 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 VDC |
| **Standby Current :** | .0003A @ 24 VDC<br>(One communication every 5 seconds with LED blink enabled). |
| **Maximum Alarm Current:** | .0065A @ 24 VDC (LED lit) |

## Specifications (Continued)
## 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, SPDT. |
| **Screw terminals:** | Up to 14 AWG (2.0 $mm^2$). |
| **Relay type:** | Form-C.<br>**Rating:**<br>2.0A @ 30 VDC resistive.<br>0.3 A @ 110 VDC inductive.<br>1.0 A @ 30 VDC inductive. |
| **Dimensions:** | 6.1" (15.5 cm) diameter. |
| **B524BI** | Isolator Base |
| **Dimensions:** | 6.1" (15.5 cm) diameter.<br>Maximum: 25 devices between isolator bases. |
| **B200S** | Intelligent sensor sounder base. |
| **Dimensions:** | 6.875" (17.5 cm) diameter. |
| **B200SR** | Standard sounder base, UL 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). |

## Ordering Information

| Part Number | Description |
|---|---|
| **ASD-IL2F** | Analog, Addressable Ionization Smoke Sensor |

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