



by Honeywell

# 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.

## Ordering Information

### Part Number 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 RA100Z
- Suitable for installation in ducts

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

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SIGNALING



LISTED S1913



APPROVED 3023594

MEA

Approved

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### GAMEWELL-FCI

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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 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, 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.

## Specifications

### ASD-IL2F

**Dimensions:** 2.1" (5.1 cm) Height x  
4.1" (10.4 cm) diameter, installed in the B501 base  
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

(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, SPDT

### Screw terminals:

Up to 14 AWG (2.0 mm<sup>2</sup>)

**Relay type:** Form-C

### Rating:

2.0A @ 30 VDC resistive

0.3 A @ 110 VDC inductive

1.0 A @ 30 VDC inductive

**Dimensions:** 6.1" (15.5 cm) diameter

**B524BI** Isolator Base

**Dimensions:** 6.1" (15.5 cm) diameter

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

6.875" (17.5 cm) diameter

### RA-100Z

Remote LED Annunciator

### BCK-200

Black detector covers (box of 10)

### GAMEWELL-FCI