Velociti® Series ASD-PL2F and ASD-PTL2F

Description

The Gamewell-FCI Velociti® Series, analog address-able plug-in smoke sensors with integral communication provide features that surpass conventional sensors. Sensitivity can be programmed in the control panel software, and 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-PL2F photoelectric sensor's unique optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources. Dual electronic thermistors add 135°F (57°C) fixed-temperature thermal sensing on the ASD-PTL2F model.

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 a response speed up to five times greater than earlier designs.

Ordering Information

Model	Description
ASD-PL2F	Analog, addressable photoelectronic smoke sensor
ASD-PTL2F	Analog, addressable photoelectronic smoke sensor with thermal sensing

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Analog, Addressable Photoelectronic Smoke Sensor

ASD-PL2F   ASD-PTL2F

Features

• Sleek, low-profile design
• Visual rotary, decimal switch addressing (01-159)
• 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
• Analog addressable communication
• Stable communication technique with noise immunity
• Optional remote, single-gang LED Indicator (RA400Z)
• Suitable for installation in ducts
• Compatible with Gamewell-FCI analog addressable panels

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

An ISO 9001-2000 Company

SIGNALING

UL® LISTED S1913

FM APPROVED 3023594

MEA Approved 219-02-E Vol.VI

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Installation

ASD-PL2F 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 bases)
*   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 sensors 30 feet (9.1 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-FL base.
Shipping Weight:	5.2 oz. (147 g)
Operating Temperature:	ASD-PL2F: 32° F to 120° F (0° C to 49° C) ASD-PTL2F: 32° F to 100° F (0° C to 38° C)
UL®-Listed Velocity Range:	0-4000 ft./min. (1,219.2 m/min.), suitable for installation in ducts.
Relative Humidity:	10-93% (non-condensing)
Thermal Ratings:	Fixed-temperature setpoint 135° F (57° C)

Electrical Specifications

VoltageRange:	15 – 32 volts DC peak
Standby Current:	(max. avg.): .0003 A @ 24 VDC (one communication every 5 seconds with LED enabled)
Maximum Alarm Current:	.0065 A @ 24 VDC (LED) lit.

Bases and Options

ADB-FL	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. Dimensions: 6.2" x 1.2" (15.7 x 3.0 cm) **Maximum:** 25 devices between isolator bases.
RA400Z	Remote alarm indicator, LED.
BCK-200	Black detector covers (box of 10)