ASD-PL3 SERIES

Addressable Photoelectric Smoke Detectors

> The Gamewell–FCI® ASD–PL3 Series feature a modern design and expanded color options support a variety of contemporary aesthetic demands. In addition, each detector is constructed for exceptional installation and maintenance efficiency.

The ASD-PL3 Series intelligent plug-in smoke detectors are designed for both performance and aesthetics, and are direct replacements for the ASD-PL2 Velociti 2 Series detectors. A new modern, sleek, contemporary design and enhanced optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources in accordance with more stringent code standards. The ASD-PL3 Series detector sensitivity can be programmed in the control panel software. Sensitivity is continuously monitored and reported to the panel. Point ID capability allows each detector's address to be set with rotary, decimal address switches, providing exact detector location for selective maintenance when chamber contamination reaches an unacceptable level. Dual electronic thermistors add 135°F (57°C) fixed temperature thermal sensing on the ASD-PTL3. The ASD-PL3R is a remote test capable detector for use with DNR Series duct detector housings.

For legacy installations, service detectors are available in the classic ivory color that will operate in both Velociti and CLIP protocol for backwards compatibility. Ivory models are designated by the -IV suffix that appears after the detector model.

Note: The E3 Series® and S3 Series panels support both the Velociti and CLIP protocols, and the GWF-7075 panel supports only the Velociti protocol. To obtain a complete list of panels that are listed to Velociti Series 3 detectors, refer to the Compatibility Addendum for Gamewell-FCI Manuals, P/N: 9000-0427-L8.

FEATURES AND BENEFITS

- Designed to meet UL 268 7th Edition
- Sleek and stylish contemporary design
- Stable communication technique with noise immunity
- Addressable by device
- Compatible with Velociti and CLIP protocol systems
- Rotary, decimal addressing (Refer to the Gamewell-FCI panel manuals for device capacity)
- Two-wire SLC connection
- LEDs blink every time the unit is polled
- 360°-field viewing angle of the visual alarm indicators (two bi-color LEDs); LEDs blink green in Normal condition and turn on steady red in Alarm
- Integral communications and built-in device-type identification
- Remote test feature from the panel
- Built-in functional test switch activated by external magnet
- Walk test with address display (an address of 121 will blink the detector LED 12-(pause)-1)
- Low standby current
- Built-in tamper-resistant feature
- Designed for direct-surface or electrical-box mounting
- Sealed against back pressure
- Plugs into separate base for ease of installation and maintenance
- Expanded color options
- SEMS screws for wiring of the separate base
- Optional remote, single-gang LED accessory
- Optional sounder, relay, and isolator bases

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INSTALLATION

The ASD-PL3 Series plug-in intelligent thermal detectors use a separate base to simplify installation, service, and maintenance. Installation instructions are shipped with each detector.

Mount base (all base types) on an electrical backbox which is at least 1.5" (3.81 cm) deep. For a chart of compatible junction boxes, see 9021-60540.

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

Note: When using relay or sounder bases, consult the M500X installation sheet I56-3629 for device limitations between isolator modules and isolator bases.

OPERATION

Each ASD-PL3 Series detector uses one of the panel's addresses (total limit is panel dependent) on the Signaling Line Circuit (SLC). It responds to regular polls from the control panel and reports its type and the status. If it receives a test command from the panel (or a local magnet test), it stimulates its electronics and reports an alarm. It blinks its LEDs when polled and turns the LEDs on when commanded by the panel. The ASD-PL3 Series offers features and performance that represent the latest in smoke detector technology.

PRODUCT LINE INFORMATION

Note: "-IV" suffix indicates Velociti and CLIP device, Ivory color.

ASD-PL3: White, low-profile photoelectric sensor, Velociti only

ASD-PL3-IV: Ivory, low-profile intelligent photoelectric sensor, Velociti and CLIP

ASD-PTL3: White, same as ASD-PL3 but includes a built-in 135°F (57°C) fixed-temperature thermal device, Velociti only

ASD-PTL3-IV: Ivory, same as ASD-PL3-IV but includes a built-in 135°F (57°C) fixed-temperature thermal device, Velociti and CLIP

ASD-PL3R: White, low-profile intelligent photoelectric sensor, remote test capable, for use with DNR/DNRW, Velociti only

ASD-PL3R-IV: Ivory, low-profile intelligent photoelectric sensor, remote test capable, for use with DNR/DNRW, Velociti and CLIP

B300-6: White, standard flanged low-profile mounting base

B300-6-BP: Bulk pack of B300-6, package contains 10

B300-6-IV: Ivory, standard flanged low-profile mounting base

B501-WHITE: White, standard European flangeless mounting base

B501-BL: Black, standard European flangeless mounting base

B501-IV: Ivory, standard European flangeless mounting base

B501-WHITE-BP: Bulk pack of B501-WHITE, contains 10

B200S-WH: White, Intelligent, programmable sounder base

B200S-IV: Ivory, Intelligent, programmable sounder base

B200SR-WH: White, Intelligent sounder base for retrofit applications

B200SR-IV: Ivory, Intelligent sounder base for retrofit applications

B200S-LF-WH: White, Low Frequency Intelligent, programmable sounder base

B200S-LF-IV: Ivory, Low Frequency Intelligent, programmable sounder base

B200SR-LF-WH: White, Low Frequency Intelligent sounder base for retrofit applications

B200SR-LF-IV: Ivory, Low Frequency Intelligent sounder base for retrofit applications

B224RB-WH: White, plug-in System Sensor® relay base

B224RB-IV: Ivory, plug-in System Sensor relay base

B224BI-WH: White, plug-in System Sensor isolator detector base

B224BI-IV: Ivory, plug-in System Sensor isolator detector base

ACCESSORIES

TR300: White, replacement flange for B210LP or B300-6 bases

TR300-IV: Ivory, replacement flange for B210LP or B300-6 bases

RA100Z(A): Remote 3 – 32 VDC LED annunciator, mounts to a U.S. single-gang electrical box, for use with B501 and B300-6 bases only

M02-04-00: Test magnet

M02-09-00: Test magnet with telescoping handle

CK300: White, detector color kit, pack of 10

CK300-IV: Ivory, detector color kit, pack of 10

CK300-BL: Black, detector color kit, pack of 10

ASD-PL3 SERIES TECHNICAL SPECIFICATIONS

PHYSICAL/ENVIRONMENTAL

Sensitivity:

- –UL Applications: 0.5% to 4.0% per foot obscuration.
- –ULC Applications: 0.5% to 3.5% per foot obscuration

Size: 2.0" (51mm) high; base determines diameter

- –**B300-6:** 6.1" (15.6 cm) diameter
- –**B501:** 4" (10.2 cm) diameter

For a complete list of detector bases, see 9021-60540.

Shipping weight: 3.4 oz. (95 g)

Operating temperature range:

- ASD-PL3 Series: 32°F to 122°F (0°C to 50°C)
- ASD-PTL3 Series: 32°F to 100°F(0°C to 38°C)
- ASD-PL3R Series installed in a DNR/DNRW: -4°F to 158°F (-20°C to 70°C)

UL/ULC Listed Velocity Range: 0-4000 ft/min. (1219.2 m/min.), suitable for installation in ducts

Relative humidity: 10% – 93% non-condensing

Thermal ratings: fixed-temperature set point 135°F (57°C), rate-of-rise detection 15°F (8.3°C) per minute, high temperature heat 190°F (88°C)

ELECTRICAL SPECIFICATIONS

Voltage range: 15 - 32 volts DC peak

Standby current (max. avg.): 200µA @ 24 VDC (one communication every 5 seconds with LED enabled)

Max current: 4.5 mA @ 24 VDC ("ON")

DETECTOR SPACING AND APPLICATIONS

Gamewell-FCI recommends spacing detectors in compliance with NFPA 72. In low airflow applications with smooth ceiling, space detectors 30 feet (9.1m). For specific information regarding detector spacing, placement, and special applications refer to NFPA 72. A *System Smoke Detector Application Guide*, document SPAG91, available at **www.systemsensor.com.**

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document.In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. *Consult factory for latest listing status.*

- **UL Listed:** S1195
- **FM Approved**
- **CSFM:** 7272-1703:0501

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