

# Velociti® Series 3 Detectors

## Photoelectric Detectors

### Description

The Gamewell-FCI, Velociti® Series 3 intelligent photoelectric detectors with integral communication provide point location for alarm communication and selective maintenance. Designed in a modern bright white color, the Velociti Series 3 is aesthetically pleasing for today's contemporary buildings.

The Velociti Series 3 smoke detectors are intelligent addressable detectors with point ID capability that enable each detector address to be set with rotary address switches providing exact device locations. The photoelectric detector continually monitors the detected temperature and reports it to the fire alarm control panel. The 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 Gamewell-FCI, ASD-PL3 photoelectric detector's re-designed optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources in accordance with more stringent code standards. The sensitivity of Velociti series detectors can be programmed using the control panel software to suit the environment. The ASD-PL3R photoelectric detector is also remote test capable that may be used with a DNR (DNRW) duct smoke detector housing. The ASD-PTL3 multi-sensor detector offers either photoelectric detection or thermal detection through dual electronic thermistors at 135°F fixed temperature thermal sensing.

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

**Note:** Although the E3 Series® and S3 Series panels support both the Velociti® and CLIP™ protocols, the GWF-7075 panel does not support the CLIP 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.



Photoelectric Detector

## FEATURES & BENEFITS

- Complies with UL® Standard 268 7th Edition
- Contains a built-in functional test switch activated by external magnet
- Provides rotary address switches (01-159)
- Includes dual LEDs for 360° visibility
- Offers expanded color options
- Designed with a new profile to offer modern and improved aesthetics
- Supports a low standby current
- Supplies optional relay, isolator, or sounder bases (standard or low frequency)

## Ordering Information

**NOTE:** "-IV" suffix indicates Ivory color model.

**NOTE:** "-BL" suffix indicates Black color model.

**NOTE:** "WH" suffix indicates Bright White color model.

**ASD-PL3:** Photoelectric smoke detector, bright white, Velociti

**ASD-PL3R:** Photoelectric smoke detector, remote test capable, for use with DNR(W) duct smoke detectors, bright white, Velociti

**ASD-PTL3:** Photoelectric smoke detector with thermal sensing, bright white, Velociti

**ASD-PL3-IV :** Photoelectric smoke detector, ivory, Velociti/CLIP

**ASD-PL3R-IV:** Photoelectric smoke detector, remote test capable, for use with DNR(W) duct smoke detectors, ivory, Velociti/CLIP

**ASD-PTL3-IV :** Photoelectric smoke detector with thermal sensing, ivory, Velociti/CLIP

### Intelligent Bases

For details on intelligent bases, refer to Data Sheet P/N: 9021-60540.

**Note:** "IV" suffix indicates Flashscan and CLIP devices. "WH" suffix indicates bright white

**B501-WHITE:** 4" Flangeless mounting base, bright white

**B501-WHITE-BP:** 4" Flangeless mounting base bulk pack, bright white

**B501-IV:** 4" Flangeless mounting base, ivory

**B300-6:** 6" Flanged mounting base, bright white

**B300-6-IV:** 6" Flanged mounting base, ivory

**B300-6-BP:** 6" Flanged mounting base bulk (Pack of 10)

**B200SR-WH:** Standard sounder base, bright white

**B200SR-IV:** Standard sounder base, ivory

**B200S-WH:** Intelligent addressable sounder base, bright white

**B200S-IV:** Intelligent addressable sounder base, ivory

**B200SR-LF-WH:** Standard low frequency sounder base, bright white

**B200SR-LF-IV:** Standard low frequency sounder base, ivory

**B200S-LF-WH:** Intelligent addressable low frequency sounder base, bright white

**B200S-LF-IV:** Intelligent addressable low frequency sounder base, ivory

**B224RB-WH:** Relay base, bright white

**B224RB-IV:** Relay base, ivory

**B224BI-WH:** Isolator base, bright white

**B224BI-IV:** Isolator base, ivory

**DNR:** Intelligent duct detector housing, non-relay

**DNRW:** Intelligent duct detector housing, non-relay, watertight

## Ordering Information

### Accessories

**SMB600:** Surface Mounting Kit (flanged)

**TR300:** Accessory Flange Ring for B300 6" Base, bright white

**TR300-IV:** Accessory Flange Ring for B300 6" Base, ivory

**RA100Z:** Remote LED annunciator, 3-32 VDC

The annunciator mounts to a U.S. single-gang electrical box. For use with B501 and B300-6.

**CK300:** Bright White detector kit (Pack of 10)

**CK300-IR:** White, detector color kit for use with MCS-COF Series Detectors. (Pack of 10)

**CK300-IV:** Ivory, detector color kit. (Pack of 10)

**CK300-IR-IV:** Ivory, detector color kit for use with MCS-COF Series detectors. (Pack of 10)

**CK300-BL:** Black detector kit. (Pack of 10)

**CK300-IR-BI:** Black, detector color kit for use with MCS-COF Series detectors. (Pack of 10)

**M02-04-01:** Detector test magnet.

**M02-09-00:** Test magnet with telescoping handle.

**XR2B:** Detector removal tool. Allows the installation and/or removal of the detector heads from the bases in high ceiling applications.

**XP-4:** Extension pole for XR2B. Shipped with three, 5-foot (1.524,m) sections.

# Velociti® Series 3 Detectors Technical Specifications

## SYSTEMS

**Photoelectric Intelligent Detector:**

### Physical Specifications

**Height:** 2.0 inches (51 mm) installed in B300-6 base

### Diameter:

6.1 inches (15.49 cm) installed in B300-6 base

4 inches (10.16 cm) installed in B501 base

**Shipping Weight:** 3.4 oz (96.4 g)

### Operating Temperature Range:

**Photo:** 32° F to 122° F (0° C to 50° C)

**Photo in Duct Applications:** -4° F to 158° F  
(-20° C to 70° C)

**Photo with Thermal:** 32° F to 100° F (0° C to 38° C)

**Operating Humidity Range:** 10% to 93%  
non-condensing

**Rate-of-Rise Detection:** Responds to greater than  
15°F/minute or 135°F (8.3° C/minute or 57°C)

**Air Velocity Range:** 0 to 4,000 ft/min  
(0 to 1219.2 m/min)

### Electrical Specifications

**Voltage Range:** 15 to 32 VDC

**Standby Current (@ 24 VDC):** 200 UA (one  
communication every 5 seconds with green LED  
enabled)

**Max Alarm Current (max.):** 2 mA @ 24 VDC (one  
communication every 5 seconds with red LED  
enabled)

**Max Current (max.):** 4.5 mA @ 24 VDC (one  
communication every 5 seconds with amber LED  
enabled)

**Isolator Load Rating:** 0.0063

## STANDARDS

The Velociti® Series 3 Photoelectric Detectors are designed to comply with the following standard:

**UL Standard:** UL 268

## 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:** S2332

**FM:** 3023594

**MEA FDNY:** COA-219-02-E Vol. VI

**CSFM:** 7272-1703:0501

**ISO 9001 Certification**

For a complete listing of all compliance approvals and certifications, please visit:  
<http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx>

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

## For more information

Learn more about Gamewell-FCI's Velociti® Series 3 Detectors and other products available by visiting [www.Gamewell-FCI.com](http://www.Gamewell-FCI.com)

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