

Velociti® Series 3, ASD-LS3

High-Sensitivity Photoelectric Spot Detector

General

The Velociti® Series 3, ASD-LS3 is a high-sensitivity photoelectric smoke detector designed for Very Early Warning Fire Detection. It is used to protect valuable assets and operations, where systems must remain functioning at all times.

The high-sensitivity detector features a smoke-sensing chamber and patented optic block designed to amplify signals from smoke, but diminish stray internal reflections that can cause false alarms. New LED technology allows the Velociti® Series 3, ASD-LS3 to achieve sensitivity levels from 0.02 percent-per-foot to 2 percent-per-foot obscuration – up to 25 times greater than a standard photoelectric detector. The extensive software processing includes multi-alert drift compensation, internal self-diagnostics, and superior transient signal rejection algorithms to produce unprecedented stability at ultra-high sensitivities across the full temperature range. The Velociti® Series 3, ASD-LS3 provides point identification of the fire location through addressability and offers complete supervision of both the wiring and detector.



- UL® 268 listed for Open Air Protection (0.5%/ft. to 2.0%/ft. obscuration)
- UL® 268 listed for Special Applications (0.02%/ft. to 0.5%/ft. obscuration)
- UL® 268A listed for Duct Applications allowing both in duct and within System Sensor models DNR and DNRW duct smoke detectors

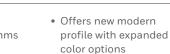
In addition, the new modern profile blends seamlessly with other Velociti Series 3 detectors, and offers expanded color options that support contemporary aesthetic demands.

The Velociti® Series 3, ASD-LS3,, is the ideal detection solution for sensitive environments that cannot tolerate even small amounts of smoke:

- Telecommunications switching facilities
- Cellular telephone infrastructure
- Integrated circuit fabrication facilities
- Computer rooms
- · Traffic control centers
- Data Centers

FEATURES & BENEFITS

- Provides superior EMI protection
- Designed with Very Early Warning Fire Detection capability
- Supports Analog communications
- Applies a low standby current
- Contains rotary address switches
- Has dual LEDs for 360° visibility
- Includes On-board drift compensation
- Uses Transient rejection algorithms
- Employs a Microprocessor design
- Communicates using either Velociti® or CLIP protocol





ASD-LS3

Accessories



Figure 1 RA100Z (Remote LED Annunciator)



Figure 2 CK300-BL Color Kit



Figure 3 TR300 Trim Ring

Ordering Information

		Description
lvory	Black	
		High sensitivity photoelectric smoke detector (laser replacement)
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B501-IV	B501-BL	4" Mounting base
		4" Mounting base, bulk pack
B300-6-IV		6" Flanged mounting base
		6" Flanged mounting base, bulk pack
B200S-IV		Intelligent sounder base
B200S-LF-IV		Intelligent sounder base, low-frequency
B200SR-IV		Intelligent sounder base
B200SR-LF-IV		Intelligent sounder base, low frequency
B224RB-IV		Relay base
B224BI-IV		Isolator base
SMB600		Surface Mounting Kit (flanged)
TR300-IV		Trim ring
CK300-IV	CK300-BL	Color Kit (includes cover and trim ring)
RA100Z		RA100Z Remote LED annunciator
		Detector test magnet
		Telescoping test magnet
	B501-IV B300-6-IV B200S-IV B200SR-IV B200SR-LF-IV B224RB-IV B224BI-IV SMB600 TR300-IV CK300-IV	B501-IV B501-BL B300-6-IV B200S-IV B200S-IV B200SR-IV B224RB-IV B224RB-IV SMB600 TR300-IV CK300-BL

Velociti® Series 3, ASD-LS3 Technical Specifications

SYSTEM

Physical/Operating Specifications:

Height: 2.0 inches (51 mm) installed in B300-6 base **Diameter:** 6.2 inches (156 mm) installed in B300-6

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4.1 inches (104 mm) installed in B501-WHITE/-IV/-BL base

Weight: 3.4 oz (95 g)

Operating Temperature Range: 14°F to 140°F (-10°C to 60°C)

Operating Humidity Range: 10% to 93% relative

humidity, non-condensing **Air Velocity:** 0 to 4,000 fpm (0 to 1219 m/minute)

Isolator Load Rating: 0.0063*

Self Diagnostics: Initiated by control panel

Activated by test magnet

Smoke Sensitivity: 9 levels: 0.02, 0.03, 0.05, 0.10, 0.20, 0.50, 1.00, 1.50, 2.00%/ft. obscuration (0.06, 0.10, 0.16, 0.33, 0.66, 1.65, 3.24, 4.85, 6.41%/m obscuration)

Drift Compensation: High sensitivity maintenance

alert signal

Low sensitivity maintenance alert signal

Maintenance urgent signal

Electrical Specifications:

Operating Voltage Range: 15 to 32 VDC Operating Current: @ 24 VDC 300 µA

(one communication every 5 seconds with green LED

blink on communication)

Maximum Current: 4.5 mA @ 24 VDC

(one communication every 5 seconds with amber LED solid on)

Maximum Alarm Current: 2 mA @ 24 VDC

(one communication every 5 seconds with red LED solid

STANDARDS

The Velociti Series 3, ASD-LS3, High Sensitivity Photoelectric Spot Detector is designed to comply with the following standard:

UL STANDARD

UL Standard: UL 864 9th Edition

AGENCY LISTINGS AND APPROVALS

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

UL Listed: UL 268 listed for Open Air Protection (0.5%/ft. to 2.0%/ft. obscuration)
UL 268 listed for Special Applications (0.02%/ft. to 0.5%/ft. obscuration)
UL 268A listed for Duct Applications

FM Approved: 450564 CSFM: 7272-1703:0504 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-FCl's Velociti® Series 3, ASD-LS3 and other products available by visiting www.Gamewell-FCl.com

Honeywell Gamewell-FCI

12 Clintonville Road Northford, CT 06472-1610 203.484.7161 www.honeywell.com

