Honeywell | Addressable Devices

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.



ASD-LS3

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.

The Velociti® Series 3, ASD-LS3 detector complies with the following UL Standards:

- 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
- Offers new modern profile with expanded color options

Accessories



Figure 1 RA100Z (Remote LED Annunciator)



Figure 2 CK300-BL Color Kit



Figure 3 TR300 Trim Ring

Ordering Information

Part Number			Description
White	Ivory	Black	
ASD-LS3			High sensitivity photoelectric smoke detector (laser replacement)
BASES			
B501-WHITE	B501-IV	B501-BL	4" Mounting base
B501-WHITE-BP			4" Mounting base, bulk pack
B300-6	B300-6-IV		6" Flanged mounting base
B300-6-BP			6" Flanged mounting base, bulk pack
B200S-WH	B200S-IV		Intelligent sounder base
B200S-LF-WH	B200S-LF-IV		Intelligent sounder base, low-frequency
B200SR-WH	B200SR-IV		Intelligent sounder base
B200SR-LF-WH	B200SR-LF-IV		Intelligent sounder base, low frequency
B224RB-WH	B224RB-IV		Relay base
B224BI-WH	B224BI-IV		Isolator base
Accessories			
	SMB600		Surface Mounting Kit (flanged)
TR300	TR300-IV		Trim ring
CK300	CK300-IV	CK300-BL	Color Kit (includes cover and trim ring)
	RA100Z		RA100Z Remote LED annunciator
M02-04-01			Detector test magnet
M02-09-00			Telescoping test magnet

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 base

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 on)

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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For more information

Learn more about Gamewell-FCI's Velociti® Series 3, ASD-LS3 and other products available by visiting www.Gamewell-FCI.com

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9021-61033 | B | 08/18
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