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 3.88 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 (3.25%/ft. to 3.88%/ft. obscuration)
UL® 268 listed for Special Applications (0.02%/ft. to 3.24%/ft. obscuration)

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

Features and benefits

- Superior EMI protection
- Very Early Warning Fire Detection capability
- Analog communications
- Low standby current
- Rotary address switches
- 360° visibility of device status with dual LEDs
- On-board drift compensation
- Transient rejection algorithms
- Microprocessor design
- Communicates with either Velociti® or CLIP protocol systems
- New modern profile with expanded color options

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 268

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 (3.25%/ft. to 3.88%/ft. obscuration) UL 268 listed for Special Applications (0.02%/ft. to 3.24%/ft. obscuration)

FM Approved: 450564 | CSFM: 7272-1703:0504 | ISO 9001 Certification

Accessories



RA100Z Remote LED Annunciator



CK300-BL Color Kit



TR300 Trim Ring

Ordering Information

Part Number			Description
White	**Ivory**	**Black**	
ASD-LS3			High sensitivity photoelectric smoke detector
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		Remote LED annunciator, UL
M02-04-01			Detector test magnet
M02-09-00			Telescoping test magnet

Velociti® Series 3, ASD-LS3 Technical Specifications

Physical/Operating

Dimensions:

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:

Special Applications: 0 to 4000 ft./min. (0 to 1219.2 m/min.)

Open Air Protection: 0 to 300 ft./min. (0 to 91.44 m/min.)

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, 3.25%/ft. obscuration (0.06, 0.10, 0.16, 0.33, 0.66, 1.65, 3.24, 4.85, 10.66%/m obscuration)

Drift Compensation:

High sensitivity maintenance alert signal

Low sensitivity maintenance alert signal

Maintenance urgent signal

ELECTRICAL

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)

CAMWorks Tool 7.20 version is required

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

E3 Series®, Velociti®, Gamewell-FCI®, and System Sensor® are registered trademarks of Honeywell International Inc.

UL® is a registered trademark of Underwriter's Laboratories Inc.

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, ASD-LS3 and other products available by visiting www.Gamewell-FCI.com

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

9021-61033 C I 02/26

©2026 Honeywell International Inc.