



SS-Series Intelligent Detectors

The System Sensor SS-Series intelligent photoelectric and thermal detectors with integral communication provide point location for alarm communication and selective maintenance.



Features

- UL 268 7th Edition, UL 521, and/or UL 268A certified
- New modern profile
- Analog communications
- Low standby current
- Rotary address switches
- Dual LEDs for 360° visibility
- Expanded color options

SS-Series 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. SS-Series detectors support current SK, IDP, LiteSpeed™ and SS Protocol systems. Refer to the Addressable Detector and Sounder Base Compatibility Chart or the Intelligent Control Panel SLC Wiring Manual for specific panel compatibility. Detector sensitivity is continually monitored and reported to the fire alarm control panel. The modern design and expanded color options support contemporary aesthetic demands. In addition, each detector is constructed for exceptional installation and maintenance efficiency.

The System Sensor **SS-PHOTO** 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 SS-Series detectors can be programmed using the control panel software to suit the environment. The **SS-PHOTO-R** photoelectric detector is also remote test capable for use with a DNR (DNRW) duct smoke detector. The **SS-PHOTO-T** multi-sensor detector offers either photoelectric detection or thermal detection through dual electronic thermistors at 135°F (57°C) fixed temperature thermal sensing.

SS-Series thermal detectors provide cost-effective, intelligent property protection with a UL 521 listing: the **SS-HEAT** offers 135°F (57°C) fixed thermal detection; the **SS-HEAT-ROR** offers 135°F (57°C) fixed and rate-of-rise thermal detection; the **SS-HEAT-HT** provides fixed high-temperature detection at 190°F.

Agency Listings



SS-PHOTO Series: S911
SS-HEAT Series: S2101



SS-PHOTO Series:
7272-1653:0529
SS-HEAT Series:
7270-1653:0528

SS-Series Intelligent Detector Specifications

Physical/Operating Specifications	
Height	2.0 inches (51 mm)
Diameter	6.2 inches (156 mm) installed in B300-6 base; 4.1 inches (104 mm) installed in B501-WHITE/-IV/-BL base
Shipping Weight	3.4 oz (95 g)
Operating Temperature Range	Photo: 32°F to 122°F (0°C to 50°C) Photo with Remote Test: 32°F to 122°F (0°C to 50°C); -4°F to 158°F (-20°C to 70°C) in duct applications Photo with Thermal: 32°F to 115°F (0°C to 47°C) Heat - Fixed-temperature: -4°F to 115°F (-20°C to 47°C) Heat - Rate of Rise (ROR): -4°F to 115°F (-20°C to 47°C) Heat - High Temperature: -4°F to 150°F (-20°C to 66°C)
UL-Listed Velocity Range	Photo, Photo with Thermal, Photo with Remote Test: 0 to 4,000 fpm (0 to 1,219 m/minute) (suitable for installation in ducts)
Operating Humidity Range	10% to 93% non-condensing
Thermal Ratings	Fixed Temperature Setpoint: 135°F (57°C) Rate-of-Rise Detection: 15°F/min. (8.3°C/min.) High Temperature Heat: 190°F (88°C)
Sensitivity Range	SS-PHOTO, SS-PHOTO-R, SS-PHOTO-T: Open area 2.86–5.0%/FT. Special Application 0.5–2.86%/FT.
Electrical Specifications	
Voltage Range	15 to 32 VDC peak
Operating Current @ 24 VDC	200 uA (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)

Ordering Information

Part No.			Description
White	Ivory	Black	
SS-PHOTO	—	—	Photoelectric smoke detector
SS-PHOTO-R	—	—	Photoelectric smoke detector, remote test capable, for use with DNR(W) duct smoke detectors
SS-PHOTO-T	—	—	Photoelectric smoke detector with thermal
SS-HEAT	—	—	Fixed temperature thermal detector
SS-HEAT-ROR	—	—	Fixed temperature and Rate-of-rise thermal detector
SS-HEAT-HT	—	—	High temperature thermal detector
Bases			
B501-WHITE	B501-IV	B501-BL	4" Mounting base
B501-WHITE-BP	—	—	4" Mounting base, bulk pack (10)
B300-6	B300-6-IV	—	6" Flanged mounting base
B300-6-BP	—	—	6" Flanged mounting base, bulk pack (10)
B200S-WH	B200S-IV	—	Intelligent addressable sounder base
B200S-LF-WH	B200S-LF-IV	—	Intelligent addressable sounder base, low-frequency
B200SR	B200SR-IV	—	Intelligent sounder base
B200SR-LF	B200SR-LF-IV	—	Intelligent sounder base, low frequency
B224RB	B224RB-IV	—	Relay base
B224BI	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
M02-04-00	Detector test magnet		
M02-09-00	Telescoping test magnet		

Accessories

RA100Z
Remote LED
Annunciator



CK300-BL
Color Kit



TR300
Trim Ring



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