SOE-24V PHOTOELECTRIC SMOKE DETECTOR

DESCRIPTION

The SOE-24 photoelectric smoke detector is a reliable, high-quality, UL 268 7th Edition listed Photoelectric Smoke Detector allowing it to be used in all open area and in-duct applications. The new multi-spectrum smoke categorization technology detects smoldering and flaming fires, including polyurethane fuels, while reducing nuisance cooking alarms.

STANDARD FEATURES

- High signal-to-noise ratio and sensitivity stability are effective in a wide range of environmental conditions
- Wide viewing angle alarm indicator
- Automatic drift compensation and maintenance indication
- Built-in magnetic test feature
- Break-away, hidden locking feature for use with NS bases
- Optimized reduction to false alarms and enhanced reaction time to real fires
- Hochiki FLAT RESPONSE™chamber technology responds consistently to fires of all types, both fast, flaming fires with dark smoke and smoldering fires with lighter-colored smoke ensuring reliable detection of any fire emergency

OPERATION

The SOE-24V Photoelectric Smoke Detector utilizes a Green/Red LED for indication of status. In a normal standby condition the LED flashes Green every 3 seconds. When the detector senses that its sensitivity has drifted outside the UL listed sensitivity window the LED will flash Red every 3 seconds. When the detector senses smoke and activates into an alarm state, the LED will latch on Red.

The detector utilizes an IR-LED and Blue LED to distinguish smoke characteristics.

DETECTOR SPACING

Smoke sensor spacing shall be in compliance with NFPA 72. For smooth ceilings and in the absence of specific performance-based design criteria, the distance between smoke sensors shall not exceed a nominal spacing of 30 ft. (9.1m) or all points on the ceiling shall have a sensor within a distance equal to or less than 0.7 times the nominal 30 ft. (9.1m) spacing. Sensors shall be located within a distance of one-half the nomi-nal spacing, measured at right angles from all walls or partitions extending upward to within the top 15 percent of the ceiling height. For additional instructions see NFPA 72

PRODUCT LISTINGS

SIGNALING UL LISTED S1383

FM APPROVED 455802

California State Fire Marshal 7272-0410:0509

Specifications subject to change without notice

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ISO 9001:2015 CERTIFIED

Find latest revision at **www.hochiki.com**

SOE-24V PHOTOELECTRIC SMOKE DETECTOR

SOE-24V Conventional Photoelectric Smoke Detector Specifications

Sensing Element	Smoke	IR LED, Blue LED, Photodiode
Supply Voltage	Operating Voltage Range	8-35VDC
	Absolute Max Voltage	42VDC
	Maximum Voltage Ripple	8200mVAC
	Maximum Input Capacitance	0.01uF
Current Consumption	Standby Current	59µA
	Remote Indicator Current	8.0mA (Internally Limited)
	Minimum Allowable Alarm Current	5mA
	Maximum Allowable Alarm Current	150mA
Startup	Time	25s (Max)
	Current	160uA (Max)
Reset	Time	100ms (Min)
	Voltage	2.5V (Min)
Smoke Density Range	1.82-3.16%/ft@ Open area	
	1.82-4.55%/ft@300FPM in Duct	
	1.82-3.96%/ft@1000FPM in Duct	
	1.82-4.19%/ft@2000FPM in Duct	
	1.82-4.07%/ft@3000FPM in Duct	
	1.82-4.20%/ft@4000FPM in Duct	
Compatible Bases	NS4-100, NS6-100, NS4-220, NS6-220, NS4 -221, NS6-221, NS4-224, NS6-224	
	HSC-220R, HSC-221R, HSC-224R, HSC-4R ,HSC-4R12	
Operating Temperature Range	32°F ~ 120°F (0°C ~ 49°C)	
UL Listed Ambient Temperature	32°F ~ 120°F (0°C ~ 49°C)	
Storage Temperature Range	-22°F ~ +140°F (-30°C ~ 60°C)	
Operating Humidity Limit	<95%RH at 104°F (40°C) <80%RH at 120°F (49°C)	
Dimension	3.94" diameter x 1.77" tall (10.0076cm x 4.50cm)	
Weight	3.4 oz. (96.39g)	
Color	Ivory	
Part Number	(0200-11280) SOE-24V Conventional Photoelectric Smoke Detector	**(www.hochikiamerica.com)**

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