

AS2045-00 / AS2046-00

Photoelectric Smoke / Smoke & Heat Detector



Standard Features

- High signal-to-noise ratio and sensitivity stability effective in a wide range of environmental conditions
- Wide viewing angle alarm indicators
- Automatic drift compensation and maintenance indication
- Built-in magnetic test feature
- Break-away, hidden locking feature for use with NS bases
- UL 268 7th Edition listed
- Optimized reduction to false alarms and enhanced reaction time to real fires

Product Overview

The AS2045 and AS2046 are conventional multi-criteria Photoelectric Smoke Detectors. They can be used in all open areas where Photoelectric Smoke Detectors are required. The newly developed multi-spectrum smoke categorization technology detects smoldering and flaming fires fueled by traditional materials and polyurethane while reducing nuisance alarms.

The 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 goes into alarm status, the LED will latch on Red.

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

The AS2046 adds a heat sensing element to also detect 20°F/minute rate of temperature rise or 135°F temperature, whichever occurs first.





Technical Specifications

		AS2045	AS2046
Sensing Element		Smoke (IR LED, Blue LED, Photodiode)	Smoke (IR LED, Blue LED, Photodiode) Heat (Thermistor)
Supply Voltage	Operating Voltage Range	8-35 VDC	
	Absolute Max Voltage	42 VDC	
	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	160A (Max)	
Reset	Time	100ms (Min)	
	Voltage	2.5V (Min)	
Smoke Density Range		1.50 - 3.50%/ft @ 300 FPM Open Area 1.50 - 3.50%/ft @ 1000 FPM In Duct 1.50 - 3.50%/ft @ 2000 FPM In Duct 1.50 - 3.50%/ft @ 3000 FPM In Duct 1.50 - 3.50%/ft @ 4000 FPM In Duct	
Compatible Bases		AS2050-00 and AS2051-00	
Heat Sensitivity Range		NA	135°F or 20°F/ min rise (whichever occurs first)
Operating Temperature Range		32°F to 120°F	
UL Listed Ambient Temperature		32°F to 120°F	
Storage Temperature Range		-22°F to +140°F	
Operating Humidity Limit		<95%RH at 104°F, <80%RH at 120°F	
Dimension		3.94" diameter x 1.77" tall	3.94" diameter x 2.18" tall
Color		Ivory	
Weight		3.4 oz	