

## INTELLIGENT PHOTO/HEAT SENSOR

### DESCRIPTION

The Fike Intelligent Photoelectric/heat, spot-type smoke sensors (P/N 63-1053 & 63-1059) have sensing chambers that utilize the light scattering principle to detect smoke. In addition, the sensor is equipped with dual thermistors for heat sensing. The sensing chamber employs features that minimize the effect of settled dust on performance. The sensor is designed with tri-color LEDs to indicate detector status. The detector can be programmed to make the LEDs blink or be steady green, amber or red. A remote LED annunciator (P/N 02-3868) is available as an accessory. It can be configured to follow the sensor LED operation or be independently controlled. The isolator version (P/N 63-1059) provides complete short circuit isolation for NFPA 72, Style 7 wiring if used with an isolator base.



The detector is compatible with Fike's CyberCat and Cheetah Xi intelligent control panels. Its operating parameters are configured using the panel's programming software and are stored within non-volatile RAM in the detector. This on-board intelligence allows each detector to communicate its status directly to other devices connected to the panel. This peer-to-peer digital protocol results in less information that needs to be sent between the detector and the host control panel, resulting in faster, more reliable communication.

### SPECIFICATIONS

Normal Operating Voltage:	15 to 30 VDC
Standby Current:	481µA max. @ 24 VDC (continuous broadcasts)
Alarm Current:	2 mA max. @ 24 VDC (LEDs on)
Humidity Range:	10% to 93% Relative Humidity, non-condensing
Temperature Range:	32°F to 120°F (0°C to 49°C); 63-1053/63-1059 32°F to 100°F (0°C to 38°C)
Heat Detector:	135°F Fixed Temperature Electronic Thermistor
Height:	2.1 inches (51 mm) installed in 63-1054 Base
Diameter:	6.1 inches (155 mm) installed in 63-1054 Base 4.1 inches (104 mm) installed in 63-1055 Base
Weight:	5.2 oz. (147 g)
Detector Spacing:	30 ft. (9.1 m) maximum

### APPROVALS

- UL - S911
- FM - 3021590 (isolator) 3023166 (non-isolator)
- MEA - 7-05-E
- CSFM - 7272-0900:139

## ORDERING INFORMATION

<b>Fike P/N</b>	<b>Manf. Model No.</b>	<b>Description</b>
63-1053		Photoelectric with Thermal - Non-isolator
63-1059		Photoelectric with Thermal - Isolator
<b>Mounting Bases</b>		
63-1054/63-1060*		6" Flanged Mounting Base
63-1055/63-1061*		4" Flangeless Mounting Base
02-10373	RMK400	Recessed Mounting Kit
20-1083	SMK400E	4" Flangeless Surface Mounting Kit
20-1084	A10-29-400	6" Flanged Surface Mounting Kit
63-1063		Relay Base
63-1064		Sounder Base
<b>Accessories</b>		
20-1085	F110	Retrofit Flange
20-1405	RA100Z	Remote LED Annunciator
20-1087	XR2B	Detector Removal Tool (20-1089 included)
02-4986	XP-4	Extension for 02-4985 (5–15 ft)
20-1089	T55-127-000	Detector Removal Head
20-1090	BCK-200B	Black Detector Kit
55-051		Configuration IR Tool



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Form No. P.1.89.01-2 August, 2009 Specifications are subject to change without notice.