

## INTELLIGENT PHOTOELECTRIC SENSOR

### DESCRIPTION

The Fike Intelligent Photoelectric, spot-type smoke sensors (P/N 63-1052 & 63-1058) have sensing chambers that utilize the light scattering principle to detect smoke. 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. 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 63-1058) 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)  |
| Height:                   | 2.1 inches (51 mm) installed in 63-1054 Base   |
| Diameter:                 | 6.1 inches (155 mm) installed in 63-1054 Base<br>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 - 7272-2010:0100

## ORDERING INFORMATION

| <b>Fike P/N</b>       | <b>Manf. Model No.</b> | <b>Description</b>                          |
|-----------------------|------------------------|---|
| 63-1052               |                        | Photoelectric Smoke Detector - Non-Isolator |
| 63-1058               |                        | Photoelectric Smoke Detector - Isolator     |
| <b>Mounting Bases</b> |                        |   |
| 63-1054               |                        | 6" Flanged Mounting Base - Non-Isolator     |
| 63-1060               |                        | 6" Flanged Mounting Base - Isolator         |
| 63-1055               |                        | 4" Flangeless Mounting Base - Non-Isolator  |
| 63-1061               |                        | 4" Flangeless Mounting Base - Isolator      |
| 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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