



# Certificate of Compliance

## FIRE PROTECTION EQUIPMENT

This certificate is issued for the following Smoke Detector equipment:

Model FIK-FC351, OSI-RI-FIK Smoke Detectors

*Approval Guide* Listing Category:

Electrical Signaling Alarm Signal Initiating Devices Fire Detection, Smoke-Actuated Fire Detectors-Smoke

Fike Corp  
704 SW 10th Street,  
PO Box 610,  
Blue Springs, MO, 64015,  
United States

This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report(s), of the following FM Approval Standards and other documents:

| <i>Approval Standards</i> |             | <i>Other Standards</i>           |             |
|---------------------------|-------------|----------------------------------|-------------|
| <i>Class Number</i>       | <i>Date</i> | <i>Organization, Designation</i> | <i>Date</i> |
| 3230                      | 2018        |                                  |             |

Original Approval Job Identification:PR459209

Approval Granted: 30 March 2021

Subsequent Revisions: none

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

  
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Date 30 March 2021



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☑Electrical Signaling ☑Alarm Signal Initiating Devices ☑Fire Detection, Smoke-Actuated ☑Fire Detectors-Smoke

**Models FIK-FC351** is a field programmable analog addressable multi-criteria smoke detector.

|                                    |   |
|------------------------------------|---|
| <b>Compatible detector bases</b>   | B300-6, B501, B501-WHITE, B200S-LF, B200S, B200SR-LF, B200SR, B224BI, B224RB, B300-6        |
| <b>Sensitivity range</b>           | 1.13%/ft. to 3.89%/ft.  |
| <b>Maximum spacing</b>             | 9m by 9m (30ft by 30ft)   |
| <b>Heat detector</b>               | Fixed 57.2°C (135°F) sensor (two thermistors)   |
| <b>Infra-Red (IR) sensor</b>       | Supplemental with photoelectric smoke (one infrared light pipe)                             |
| <b>Carbon Monoxide (CO) sensor</b> | Supplemental with photoelectric smoke: separate signal for life safety detection            |
| <b>Operating voltage range</b>     | 15 to 32Vdc   |
| <b>Operating temperature range</b> | 0° to 38°C  |
| <b>Air velocity range</b>          | 0-91.4 m/min (0-300 fpm)  |
| <b>Maximum humidity</b>            | 15 to 90% RH, non-condensing  |
| <b>Power consumption</b>           | Standby : 200µA;<br>Alarm: 2mA (with a red LED on);<br>Alarm: 4.5mA (with an amber LED on); |
| <b>Outputs</b>                     | Multi-color LED;  |
| <b>Transmission method</b>         | Classic Loop Interface Protocol (CLIP);<br>FLASHSCAN Protocol                               |
| <b>Enclosure</b>                   | Indoor use only; tamper resistant   |

**Model OSI-RI-FIK** Reflector-type Linear Optical Beam Analog Addressable Smoke detector.

|   |  |
|---|--|
| <b>Compatible Fire Alarm Control Panels</b> | FM Approved fire Alarm Control Panels using FIKE Classic Loop Interface Protocol (CLIP); |
| <b>Sensitivity range</b>                    | 0.5%/ft. to 4.0%/ft.   |
| <b>Range</b>                                | 5m to 100m (16.4ft to 328ft)   |
| <b>Maximum spacing</b>                      | 9.1m to 18.3m (30ft to 60ft)   |
| <b>Response Time</b>                        | Alarm – 20 sec; Trouble – 30 sec.  |





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|                                       |   |
|---------------------------------------|---|
| <b>Trouble Reporting Capabilities</b> | Beam Blockage – 96% or more obscuration;<br>Improper Initial Alignment;<br>Self-compensation limit reached (“Service Needed”);<br>In Alignment/Commissioning Mode   |
| <b>Test/Reset Features</b>            | Electronic simulated smoke test from ground level Sensitivity Filter  |
| <b>Indicators</b>                     | ALARM – Remote Output, Local LED (red);<br>TROUBLE - Remote Output, Local LED (yellow), Blink Pattern indicates Trouble diagnostics;<br>NORMAL OPERATION – Local LED (flashing green);<br>ALIGNMENT AIDS – Laser pointer and optical intuitive alignment guidance with directional arrows |
| <b>Operation with FACP</b>            | Style 7 supervision provided by on-board isolators (may be disabled)  |
| <b>Operating voltage range</b>        | 15 to 32Vdc (24Vdc nominal)   |
| <b>Operating temperature range</b>    | -20° to 55°C  |
| <b>Maximum humidity</b>               | 0 to 95% RH, non-condensing   |
| <b>Power consumption</b>              | Standby : 20mA;<br>Alarm: 54mA (LED on);<br>Heater: 0.5A  |
| <b>Reset Time/Start-up Time</b>       | 0.5 sec/30 sec  |
| <b>Transmission method</b>            | Classic Loop Interface Protocol (CLIP);   |
| <b>Enclosure</b>                      | Indoor use only;  |
| <b>Adjustment Angle</b>               | Detector 50° horizontal and 20° vertical beam alignment;<br>Reflector ±10° horizontal and vertical  |



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