

FIK-2351 SERIES Addressable Photoelectric Smoke Detectors

The Fike-2351 Series photoelectric smoke detectors are designed for both performance and aesthetics. Detector sensitivity can be programmed in the control panel software, and sensitivity is continuously monitored and reported to the panel. Point ID capability allows each detector's address to be set with rotary decimal address switches, providing exact detector location for selective maintenance when chamber contamination reaches an unacceptable level. Dual electronic thermistors add 135°F (57°C) fixed temperature thermal sensing on the FIK-2351T. The FIK-2351R is a remote test capable detector for use with the DNR Series duct detector housings.



FEATURES

- Designed to meet UL 268 7th Edition
- Addressable by device
- Rotary, decimal addressing
- Two-wire SLC connection
- LEDs blink every time the unit is polled
- 360°-field viewing angle of the visual alarm indicators (two bi-colored LEDs); LEDs blink green in Normal condition and turn on steady red in Alarm
- Integral communications and built-in device type identification
- Remote test feature from the panel
- Built-in functional test switch activated by an external magnet
- Walk test with address display
- Designed for direct-surface or electrical box mounting
- Optional remote, single-gang LED accessory
- Optional sounder, relay, and isolator bases
- Plugs into a separate base for ease of installation and maintenance

AGENCY LISTINGS AND APPROVALS

- UL Listed
- Factory Mutual Approved
- CSFM

For exact certification listings, please reference the respective agency website.

SPECIFICATIONS

Physical/Environmental	
Sensitivity:	UL Applications: 0.5% to 4.0% per foot obscuration
Sensor Size:	2" (5.3 cm) high; base determines diameter
Base Size:	B300-6: 6.1" (15.6 cm) diameter B501: 4" (10.2 cm) diameter
Shipping Weight:	3.4 oz. (95 g)
Operating Temperature Range:	FIK-2351: 32°F to 122°F (0°C to 50°C) FIK-2351T: 32°F to 100°F (0°C to 38°C) FIK-2351R: -4°F to 158°F (-20°C to 70°C)
Detector Spacing:	UL approved for 30 feet (9.1 m) center to center. Space per NFPA 72
Velocity Range:	0 – 4000 ft/min (1219.2 m/min), suitable for installation in ducts
Relative Humidity:	10% to 93%, non-condensing
Thermal Ratings:	Fixed-temperature set point 135°F (57°C) Rate-of-rise detection 15°F (8.3°C) per minute
Electrical	
Voltage Range:	15 – 32 volts DC peak
Standby Current:	200µA @ 24 VDC maximum average (one communication every 5 seconds with LED enabled)
LED Current:	4.5 mA @ 24 VDC maximum (ON)

ORDERING INFORMATION

Part Number	Description
FIK-2351	White, low-profile intelligent photoelectric sensor
FIK-2351R	White, low-profile intelligent photoelectric sensor, remote test capable, for use with DNR
FIK-2351T	White, low-profile intelligent photoelectric/135°F fixed-temperature sensor
Bases	
B300-6	White, standard flanged low-profile mounting base
B300-6-BP	Bulk pack of B300-6, package contains 10
B300-6-IV	Ivory, standard flanged low-profile mounting base
B501-WHITE	White, standard European flangeless mounting base
B501-BL	Black, standard European flangeless mounting base
B501-IV	Ivory, standard European flangeless mounting base
B501-WHITE-BP	Bulk pack of B501-WHITE, package contains 10
B200S-WH	White, intelligent programmable sounder base
B200S-IV	Ivory, intelligent programmable sounder base
B200SR-WH	White, intelligent sounder based for retrofit applications
B200SR-IV	Ivory, intelligent sounder base for retrofit applications
B200S-LF-WH	White, low frequency intelligent programmable sounder base
BS200S-LF-IV	Ivory, low frequency intelligent programmable sounder base
B200SR-LF-WH	White, low frequency intelligent programmable sounder base for retrofit applications
B200SR-LF-IV	Ivory, low frequency intelligent programmable sounder base for retrofit applications
B224RB-WH	White, plug-in relay base
B224RB-IV	Ivory, plug-in relay base
B224BI-WH	White, plug-in isolator base
B224BI-IV	Ivory, plug-in isolator base
Accessories	
TR300	White, replacement flange for B210LP or B300-6 bases
TR300-IV	Ivory, replacement flange for B210LP or B300-6 bases
RA100Z(A)	Remote 3-32 VDC LED annunciator
M02-04-00	Test magnet
M02-09-00	Test magnet with telescoping handle
CK300	White, detector color kit, pack of 10
CK300-IV	Ivory, detector color kit, pack of 10
CK300-BL	Black, detector color kit, pack of 10