

FireOPTIX-50M/100M- REFLECTIVE OPTICAL BEAM SMOKE DETECTORS



STANDARD FEATURES

- 2 Models based on coverage:
 - 50M (16.4 ft. to 164 ft.) / (5m to 50m)
 - 100M (16.4 ft. to 328 ft.) / (5m to 100m)*
- Easy set up and alignment
- Single compact housing
- Calibrated obscuration test filter included
- 3 selectable alarm thresholds: 25%, 35% or 50%
- Microprocessor controlled
- Alarm latching or auto reset
- Automatic gain control
- 12 VDC or 24 VDC operation
- Separate alarm and trouble contacts
- Remote Test Station available

APPLICATIONS

The FireOPTIX-50M/100M systems are reflective beam smoke detectors, which comprise of a single unit incorporating an infra-red transmitter and receiver. The signal generated in the transmitter element and reflected by the reflector back to the receiver element is analyzed for the presence of smoke. The internal microprocessor determines an alarm condition when a predetermined level is reached.

The product is designed to be mounted so the beam will project between 19" (0.5 m) and 24" (0.6m) below and parallel to the ceiling. Lateral detection may be up to 30ft. (9.144m) on either side of the beam, providing a maximum total coverage area of up to 19,800 square feet (60ft. x 330ft. or 18.29m x 100m). For installations complying with UL268/NFPA72, the maximum distance of Detector and Reflector from the ceiling must be 10% of the distance between floor and ceiling.

SPECIFICATIONS

Housing	Flame Retardant ABS
IP Rating	IP50
Finish	Grey/Black
Weight	1.5 lbs (0.68kg)
Dimensions	8.25" H x 4.5" D x 4.75"W (210mm H x 114.3mm D x 120mm W)
Primary Input Power	10.2 to 30 VDC
Standby Current	4mA @ 24VDC
Alarm Current	15 mA @ 24VDC
Relay Contacts	1A at 30VDC Resistive
Reset Time	5 Seconds maximum
Start Up Time	10 Seconds
Optical Wavelength	880nm.
Alarm Threshold	25%, 35%, 50%
Temperature Rating	-4°F to 131°F (-20°C to +55°C) For UL Listed Installations, 32°F to 100°F (0°C to 38°C)
Relative Humidity	10% to 93% RH non-condensing
Range	50M (16.4 ft. to 164 ft.) / (5m to 50m) 100M (16.4 ft. to 328 ft.) / (5m to 100m)

PRODUCT LISTINGS



California State
Fire Marshal
7260-0410:0502

*Achieved by using added prisms (provided)

Specifications subject to change without notice.

Continued on back.



FireOPTIX-50M/100M - REFLECTIVE OPTICAL BEAM SMOKE DETECTOR

ENGINEERING SPECIFICATIONS

The projected beam type smoke detector shall be a 4-wire 12/24 VDC device to be used with a separately supplied 4-wire control panel. The Optical Beam Smoke Detector shall be listed to UL 268 and shall consist of an integrated transmitter and receiver. The FireOPTIX-50M detector shall operate between a range of 16.4 to 164 feet (5 to 50 meters) using one reflector or for the FireOPTIX-100M over the range of 160 to 328 feet (50 to 100 meters) using four reflectors mounted in a 8.1" x 8.1" (205mm x 205mm) square. The temperature range of the beam shall be -4°F to 131°F (-20°C to +55°C). The beam detector shall feature automatic gain control which will compensate for gradual signal deterioration from dirt accumulation on the lenses. The unit shall be capable of mounting directly to the wall or to a surface back box. Testing shall be carried out by using a calibrated obscuration test filter. The Reflective beam type smoke detector shall be a Hochiki FireOPTIX-50M (16.4 ft. to 164 ft.) / (5m to 50m) or FireOPTIX-100M (16.4 ft. to 328 ft.) / (50m to 100m).

