Fireray 5000 - MOTORIZED REFLECTIVE OPTICAL BEAM SMOKE DETECTOR

STANDARD FEATURES

- Up to 2 Detector Heads reporting to One Ground Level Controller
- Range of 50M (26.2 ft. to 164 ft.) / (8m to 50m)
  *For throws of 100M (164 ft. to 328 ft.) / (50m to 100m)
  Requires FireOPTIX LR Kit Part# 0200-08190
- Built in Laser assisted reflector mounting
- Auto-Alignment 2 to 4 minutes per head
- Auto-Optimize: Auto-Correction due to building shift
- Built-in electronic UL/ULC/FM obscuration-acceptance fire test
- Contamination compensation
- Separate Trouble and Alarm relays for each of the 2 channels
- Password protected settings
- Low current draw 5 to 8.5mA
- Built-in 1/2”/M-20 conduit knock-outs on the system controller
- Programmable alarm thresholds: 10% - 60% in 1% increments
- Programmable Fault and Alarm delay: 2-30 Seconds
- Logs the 50 most recent events per detector

PRODUCT LISTINGS

SIGNALING UL LISTED S3417

California State Fire Marshal PENDING

APPLICATIONS

The Fireray 5000 System is an auto-aligning, self-correcting infrared reflective beam smoke detector. Up to 2 detector heads can report to a single ground level controller. In addition, each system controller houses two pairs of fire and trouble relays, one per detector. Once the detector head is installed, using the easy fit mounting system an integral LASER can be activated. This allows the reflector to be located quickly and with confidence.

The Auto-Align function ensures proper alignment and maximum signal during the beam installation. Auto Optimize automatically steers and maintains the beam in the optimum position for reliable performance. 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 obscuration is reached.

The system is designed to be mounted so the beam will project between 19” (0.5m) and 24” (0.6m) below 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	IP54
Finish	Grey/Black
Knock Outs	Controller: 7.5” / M-20 Detector Head: 1.5” / M-20
Weight	Head & Controller 3.24 lbs (1.47 kg)
Dimensions	Head: 5.28” H x 5.16” L x 5.28” W (134mm H x 131mm L x 134mm W) Controller: 3.43” H x 9.06” L x 7.95” W (87mm H x 230mm L x 202mm W) Prism: 0.37” H x 4.13” L x 3.94” W (9.5mm H x 105mm L x 100mm W)
Primary Input Power	14 to 36 VDC
Standby Current	Low Current Mode: 5mA to 8.5mA @ 24VDC depending on number of detector heads used High Current Mode: 37mA @ 24VDC
Alarm Current	5mA to 8.5mA @ 24VDC depending on number of detector heads used
Relay Contacts	1A @ 30VDC Resistive
Reset Time	5 seconds maximum
Start Up Time	45 seconds
Optical Wavelength	850nm

Specifications subject to change without notice.

Continued on back.

Hochiki America Corporation
7051 Village Drive, Suite 100, Buena Park, CA 90621-2268
Phone: 714-522-2246 Fax: 714-522-2268
Technical support: 800-845-6692 or technicalsupport@hochiki.com

Fireray 5000 - MOTORIZED REFLECTIVE OPTICAL BEAM SMOKE DETECTOR

SPECIFICATIONS *Continued*

Alarm Threshold	10% - 60% (35% Default)
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	0% to 93% RH non-condensing
Range	26.25ft. to 330ft. (8m to 100m)
Cabling Between each Detector & Controller	18-14 AWG 1-Pair

ENGINEERING SPECIFICATIONS

The projected beam type smoke detector shall be listed to U.L. 268 and shall consist of up to two integrated transmitter, receiver detector heads and single low level remote control unit. The detector shall operate between a range of 50M (26.2 ft. to 164 ft.) / (8m to 50m) or 100M (164 ft. to 328 ft.) / (50m to 100m). The temperature range of the system shall be -4°F to 131°F (-20°C to 55°C). The beam detector heads shall include an integral built-in laser pointer to assist reflector mounting. The beam detector shall feature automatic gain control which will compensate for gradual signal deterioration from dirt accumulation on the lenses and reflectors. The beams detector heads shall include Auto Optimize self-correcting motorized head feature to ensure unit is always receiving maximum signal available, and shall automatically compensate for building shift. The unit shall include a low level remote display and control unit with LCD read-out for set-up, reporting and testing of up to 2 separate detector heads. The System shall have separate Trouble and Alarm relays for each of the 2 channels.

The system shall be capable of programming alarm thresholds of 10% to 60% in 1% increments. The system shall be capable of programming delay to fault and delay to alarm from 2 seconds to 30 seconds in 1 second increments. Test and acceptance of the system shall be carried out by using the UL/ULC/FM approved internal electronic obscuration fire test. The projected beam type smoke detector shall be a 4-wire 24VDC device to be used with a separately supplied 4-wire control panel. The Reflective beam type smoke detector shall be a Hochiki Fireray 5000.