

**NO
EXCUSES!**



FE-50RU/ FE-100RU

Reflective Beam Detector

The system is comprised of a single unit incorporating an infra-red transmitter and receiver. The signal generated in the transmitter element and reflected by the prism 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 system is designed to be mounted so the beam will project between 1ft. (0.305 m) and 2ft. (0.61m) 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 18.288m x 100m).

Standard Features:

- Models for ranges of
 - 15 ft. to 160 ft. (5m to 50m)
 - 160 ft. to 330 ft. (50m 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

Applications:

Open areas where ceiling heights exceed 25ft. (Warehouses, Hotel Atriums, Industrial Plants and School Gymnasiums)
Public areas where cosmetics are of prime importance and detector heads need to be small and unobtrusive. (Shopping Malls, Libraries, Theaters and Churches)

Benefits:

Reduces installation costs where 6 or more spot detectors are required in a single area. Reduces service time by taking advantage of optional remote test station located at ground level for system test without disruption of the site.



1 Prism supplied for the FE-50RU
and 4 Prisms supplied for the FE-100RU



Space Age Electronics, inc.
www.1SAE.com
800.486.1723 Toll Free
508.485.0966 Local
508.485.4740 Fax

Specifications:

The projected beam type smoke detector shall be a 4-wire 12/24 VDC device to be used with a Nationally Recognized Testing Laboratory's Listed separately supplied 4-wire control panel. Unit shall be listed to U.L. 268 and shall consist of an integrated transmitter and receiver. The detector shall operate between a range of 15 ft. to 330 ft. (5m to 100m). The UL Listed temperature range of the beam shall be 32°F to 100°F (0°C to 37.8°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 include a wall mounting bracket. Testing shall be carried out by using a calibrated obscuration test filter. The Reflective beam type smoke detector shall be a Space Age Electronics, Inc. 50RU (160 ft./50m) or 100RU (330 ft./100m).

Beam Detector Spacing:

On smooth ceilings, up to 60 ft. (18.288m) between reflective beams and not more than one-half that spacing between a reflective beam and a sidewall. Other spacing may be used depending on ceiling height, airflow characteristics and response requirements. See NFPA 72 for further information.

Electrical Specifications:

Primary Input Power:
10.2 to 30 VDC

Standby Current:
4mA @ 24VDC

Alarm Current:
15 mA @ 24 VDC

Relay Contacts:
1A at 30 VDC Resistive

Reset Time:
5 Seconds maximum

Start Up Time:
10 Seconds

Optical Wavelength:
880nm.

Temperature Rating:
-22°F to 131°F (-30°C to 55°C)
32°F to 100°F (0°C to 37.8°C) UL

Relative Humidity:
10% to 93% RH non-condensing

Range:
50RU 15-160 ft. (5m to 50m)
100RU 160-330 ft. (50m - 100m)

Sensitivity:
25%, 35%, 50%

Dimensions:
8.25" H x 4.5" D x 4.75" W
(21.0cm H x 11.43cm D x
12.065cm W)

Unit shipping weight 3 lbs

Operational Specifications:

- Latching / Non Latching Alarm
- Fault condition (Trouble)
- 90% or more obscuration (Trouble)
- Automatic gain control
- Improper set up alignment (Trouble)
- Reflector targeting mode
- Microprocessor Controlled
- 3 Sensitivity Selections
- Alarm Indicator—Red LED
- Trouble Indicator—Amber LED

Approvals:

UL	UROX.S3417
ULC	UROXC.S3417
MEA	70-02-E
CSFM	7260-1508:102

This Product Manufactured by
Fire Fighting Enterprises

Ordering Information:

Part #	Description
FE-50RU	160FT Reflective Beam Detector
FE-100RU	330FT Reflective Beam Detector



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ED0517 LT10517 Rev.1 2/2