

# FSB-200 Series

## Reflected Beam Sensors



Intelligent/Addressable Devices

### General

The Notifier FSB-200 and FSB-200S are intelligent, addressable reflected beam smoke detectors for protecting open areas with high and sloping ceilings, and wide-open areas, where spot-type smoke detectors are difficult to install and maintain. Ideal applications are atriums, cathedral ceilings, aircraft hangars, warehouses, sporting arenas, concert halls, and enclosed parking facilities.

Installation of the single-ended reflective design is much quicker than a dual-ended projected beam detector. Alignment is easily accomplished with an optical sight and a two-digit signal strength meter incorporated into the beam detector. Listed for operation from  $-30^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ , the FSB-200 and FSB-200S are usable in open area applications where temperature extremes exceed the design limits of other types of smoke detection.

The FSB-200 and FSB-200S are a transmitter/receiver unit and a reflector. When smoke enters the area between the unit and the reflector it causes a reduction in the signal strength. When the smoke level (signal strength) reaches the predetermined threshold, an alarm is activated. The detectors have four standard sensitivity selections as well as two Acclimate<sup>®</sup> settings. When either Acclimate<sup>®</sup> setting is selected, the detector's advanced software algorithms automatically adjust to the optimum sensitivity for the specific environment.

The FSB-200S has an integral sensitivity test feature of a filter attached to a servomotor inside the detector optics. Activation of the RTS151 or RTS151KEY remote test stations moves the filter into the pathway of the light beam, testing the



detector's sensitivity. *This sensitivity test feature allows the user to quickly and easily meet annual maintenance and test requirements without physical access to the detector. The servomotor must be powered by an external +24 VDC power source.*

### Features

- Transmitter/receiver built into same unit.
- Six user-selectable sensitivity levels.
- 5m to 70m (use BEAMLRK 70m to 100m) protection range.
- Removable plug-in terminal blocks.
- Digital display — no special tools required.
- Built-in automatic gain control compensates for signal deterioration from dust buildup.
- Optional remote test station.
- Optional multi-mount kit.

### Approvals

CSIRO ActivFire listed to  
AS 1603.7 - 1996 (afp-2083)

## Specifications:

<b>Range:</b>	5 to 70m 70 to 100m using optional accessory BEAMLRK
<b>Sensitivity:</b>	25% to 50% Total Obscuration in 6 levels Level 1 = 25% Level 2 = 30% Level 3 = 40% Level 4 = 50% Level 5 = 30% to 50% (Acclimate) Level 6 = 40% to 50% (Acclimate)
<b>Test/Reset Features:</b>	Integral Sensitivity Test Filter (FSB-200S only) Sensitivity Filter (Incremental scale on reflector) Local Alarm Test Switch Local Alarm Reset Switch Remote Test and Reset Switch Capability (compatible with RTS451/RTS451KEY)
<b>Indicators:</b>	Alarm: Remote Output, Local LED (red) Trouble: Local LED (yellow) Blink Pattern Indicates Trouble Diagnostics Normal Operation: Local LED (flashing green with communication) Alignment Aids: Optical Gunsight (coarse adjustment) 00 to 99 Digital Display (fine adjustment) Relays: Alarm, Trouble Sensitivity: Digital Display Read-out in Percent Obscuration
<b>Environmental:</b>	Temperature: -30°C to 55°C Humidity: 10% to 93% RH Non condensing
<b>Mechanical:</b>	Mounting: Wall only without optional accessories Adjustment Angle: ± 10° Horizontal and Vertical
<b>Electrical:</b>	Voltage: 15 to 32VDC Average Stand-by: 2mA Max. (1 communication every 5 sec, LED flashing @24VDC) Max.Alarm (LED on): 8.5mA Max. Trouble: 4.5mA Max. Alignment: 20mA

## Ordering Information

FG-03-017	FSB200 Addressable beam smoke detector with 200mm reflector
FG-03-018	FSB-200S Addressable beam smoke detector with 200mm reflector and integral sensitivity test
FG-01-064	BEAMMMK Multi-mount kit (Provides ceiling or wall mount capability with increased angular adjustment)
FG-01-065	BEAMSMK Surface mount kit
FG-01-066	BEAMLRK Long range kit (70m - 100m)
FG-01-067	RTS451Key Remote test station with key lock

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