

Overview

Features

- · Combined transmitter and receiver unit
- Unique servo-operated test filter
- Range 10 70 meters, 70- 100 meters with long range kit
- 4 x fixed sensitivity/threshold levels
- 2 x automatic variable sensitivity modes
- Operates in the Infra-Red light spectrum
- · Numerical indicators to aid beam alignment
- Standby, fault and alarm LED indicators visible from the front and bottom
- ±10° horizontal and vertical beam alignment
- Automatic drift compensation
- CPR approved to EN54 12:2015
- Extended Warranty





1293-CPR-0684

Description

The 6500RE and 6500RSE are conventional reflectortype linear optical beam smoke detectors designed to operate as components of conventional fire alarm systems. They operate primarily on the principle of light obscuration utilising an Infra-Red beam. Optical beam smoke detectors are particularly appropriate for protecting buildings with large open spaces such as warehouses, atriums etc.

The 6500RE and 6500RSE detectors are combined transmitter/receiver units that can be directly connected to a conventional detector circuit. The Infra-Red transmitter generates a beam of light towards a high efficiency reflector. The reflector returns the beam to the receiver where an analysis of the received signal is made. The change in the strength of the received signal is used to determine the alarm condition. The 6500RSE features Asuretest, the unique remote test capability that fully tests both the optics and the electronics of the device. An optical filter is automatically introduced in front of the optics, attenuating the returned beam and causing the unit to go into alarm.

Alignment of the detector is simplified with the aid of the detector's "gunsight" targeting device. Alignment of the detector with the reflector can then be "fine tuned" with the aid of a numerical signal strength indicator.

The sensitivity of the detector can be set to between 25% and 50% obscuration, providing application flexibility to suit the environment in which the detector will be installed. In addition to four fixed value alarm thresholds, there are two variable thresholds that automatically compensate for changes in the environment which could otherwise result in unwanted alarms while remaining within a known sensitivity range.

The detector incorporates automatic drift compensation, whereby the detector will adjust its detection thresholds in line with any long term signal reduction of the beam caused by contamination of the optical surfaces.

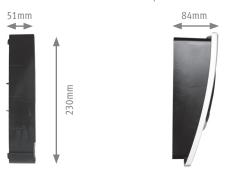
The detector can be adjusted up to 10° vertically and horizontally for alignment. Where greater angular adjustment is required, the multi-mount accessory enables the detector to move through 28° vertically and 360° horizontally when ceiling mounted or up to 23° vertically and 90° horizontally when wall mounted.

All System Sensor products are covered by our extended 3 year warranty.



Architect/Engineer Specifications

6500RE and 6500RSE Conventional Optical Beam Smoke Detectors





Installation Recommendations

Installation should be undertaken in accordance with recognised national or international standards and codes of practice. The recommendations detailed in our "Application Guide for Projected Beam Smoke Detectors" (A05-0095) should also be taken into consideration.

We would also recommend that simulated fire tests are conducted to ensure that the desired response time for a given installation are met.

Electrical Specifications

Operating Voltage Range	10.2 to 32VDC (12 or 24VDC nominal)*
Maximum Standby Current	17mA
Maximum Alarm Current (LED on)	38.5mA

Environmental Specifications

Application Temperature Range	-30°C to +55°C
Humidity	0 to 95% Relative Humidity (non condensing)
IP Rating	IP54

Mechanical Information

254mm, 6500-SMK backbox 230mm
84mm
Detector 190mm, 6500-SMK backbox 178mm
1.77kg
2.5mm ²
White trim, black box
Trim - Bayblend FR110, Lens cover - Lexan, Backbox - Noryl
200 x 230mm (5 – 70m range, supplied as standard)

Product Range

Accessories	
6500-LRK	Long Range reflector kit (70 – 100m range). 3 off 200 x 230mm.
6500-MMK	Multi-mount accessory for ceiling or wall mounting with additional mounting adjustment
	6500-SMK also required
6500-SMK	Surface Mount accessory
ВЕАМНК	Heater Kit for the beam
BEAMHKR	Heater Kit for the reflector
RTS151KEY	Reset and test station, flush mount
RTS151KIT	Reset and test station with surface mount back box

^{*6500}RE and 6500RSE requires 24 VDC supply to operate Asuretest (Remote test capability)

System Sensor (Technical Services)

System Sensor Europe Email: sse.technical@systemsensor.com www.systemsensoreurope.com

System Sensor Europe (Customer Services)

La Pièce 16,1180, Rolle, Switzerland Tel: +41 21 695 30 00 Email: orders@systemsensor.ci

Email: orders@systemsensor.com www.systemsensoreurope.com



