

# Beam Smoke Detector

## 6500R/6500RS

- **Conventional technology**
- **Transmitter and receiver unit integrated into one housing**
- **Detection of clear and dark smoke**
- **6 sensitivity levels selectable**
- **Test filter for optimum commissioning**
- **Automatic drift compensation**



### Description

With a range of 5m to 70m the Beam Smoke Detector 6500R serves for the monitoring of open spaces. The transmitter/receiver unit projects a pulsed infrared light beam through the area to be protected towards a reflector, which returns the light beam. The smoke detection is based on the attenuation of the light beam by means of smoke.

The detector uses intelligent evaluation algorithms to compensate for the influence of contamination of the optical measurement system. With that, the response sensitivity of the detector is kept constant for a long time – an effective step to avoid false alarms.

Conventional technology is used for alarm transmission to the fire detection control panel. The response sensitivity of the detector can be set to one of six levels.

Four levels have a fixed response threshold, whereas two further levels with variable response sensitivity allow to adjust the detector to changing environmental conditions.

The detector is delivered with a reflector, which can be used for ranges from 5m to 70m. A three-part reflector set, which extends the range of the detector to 100m, is available as accessory.

The Beam Smoke Detector 6500RS corresponds to the Beam Smoke Detector 6500R in design and function. In addition, the 6500RS can be remotely activated, allowing easy function testing during maintenance. This test simulates light obscuration by means of a motor-driven test filter.



## Specifications

Ambient temperature	-30°C to +55°C
Relative humidity	max. 95% (no condensation)
Dimensions W x H x D	190 x 254 x 84 (mm), Smoke Detector 6500R 200 x 230 x 10 (mm), Reflector (5m to 70m)
Protection class	IP54
Colour	cream
Weight	1.8kg
Approval	VdS G205034

### Beam Smoke Detector 6500R

Operating voltage	10.2 – 32VDC
Current consumption at 24V	17mA (quiescent), 38.5mA (active)
Order number	244022
Order name	Beam Smoke Detector/Conv./SS 6500R

### Beam Smoke Detector 6500RS with test activation

Operating voltage	15 – 32VDC
Current consumption at 24V	17mA (quiescent), 38.5mA (active)
Current consumption test unit	500mA
Order number	244023
Order name	Beam Smoke Detector/Test/Conv./SS 6500RS

