

Beam Smoke Detector

6500/6500S

- **ADM loop technology with System Sensor/200 protocol**
- **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 6500 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.

The Beam Smoke Detector 6500 does not need an external power supply and can be connected directly to the ADM loop with System Sensor/200 protocol. An integrated dual-isolator can be activated by removing two jumpers.

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 6500S corresponds to the Beam Smoke Detector 6500 in design and function. In addition, the 6500S can be remotely activated from the fire detection control panel, allowing easy function testing during maintenance. This test simulates light obscuration by means of a motor-driven test filter. An external power supply is needed for the test unit, which can not be powered by the loop.



Specifications

Operating voltage	Supply through loop voltage
Current consumption from loop	2mA (quiescent), 8mA (active)
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 6500 200 x 230 x 10 (mm), Reflector (5m to 70m)
Protection class	IP54
Colour	cream
Weight	1.8kg
Approval	VdS G205033

Beam Smoke Detector 6500

Order number	244020
Order name	Beam Smoke Detector/Anal./SS 6500

Beam Smoke Detector 6500S with test activation

Operating voltage test unit	15 – 32VDC
Current consumption test unit	500mA
Order number	244021
Order name	Beam Smoke Detector/Test/Anal./SS 6500S

