

Beam Smoke Detector

6500E/6500SE



- **Loop technology with System Sensor 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 6500E 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 6500E does not need an external power supply and can be connected directly to the loop with System Sensor 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 6500SE corresponds to the Beam Smoke Detector 6500E in design and function. In addition, the 6500SE 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	1293-CPR-0683

Beam Smoke Detector 6500E

Order number	244420
Order name	Beam Smoke Detector/200 6500E

Beam Smoke Detector 6500SE with test activation

Operating voltage test unit	15 – 32VDC
Current consumption test unit	500mA
Order number	244421
Order name	Beam Smoke Detector+Test/200 6500SE

