

SPB-E Beam Detector.

The new dimension in smoke detectors.

FIRE ALARM

www.schrack-seconet.com

SCHRACK
S E C O N E T

SPB-E Beam Detector.

The new generation in security.

Innovation.

The SPB-E beam detector is a linear smoke detector. As a result of its special features, it is able to offer new opportunities concerning the early recognition of fires. Its compact case and external proportions make it simple to fit discretely. The beam detector proves to be the optimal solution for all areas where spot smoke detectors can not providing adequate monitoring. The possible areas for use range from buildings with extremely high ceilings, such as churches or aircraft hangars, through to historical buildings and warehouses.

Optimal Security.

The SPB-E beam detector is completely reliable even in extreme and constantly changing environmental conditions. Temperature, air humidity and other influences do not affect the precision of the detector's response characteristics in any way. One of the particular specialities of the beam detector is its automatic compensation of influences from the environment and the detector's surroundings. The integrated microprocessor ensures optimal security by permanently monitoring the entire system.

Functional principle.

The SPB-E beam detector consists of transmitter and receiver units, which are fitted opposite one another at a distance of up to 100 m from one another. The desired level of sensitivity is set exactly for every type of application. If smoke enters the monitoring area, then the intensity of the infrared beam of light that is received by the receiver unit is reduced, and the system detects, checks and filters these changes. It is thereby ensured that an alarm message is only triggered in the event of a fire. In comparison with automatic spot-type smoke detectors, the SPB-E beam detector is able to offer optimal early detection of a fire for a considerably larger area and to guarantee the highest degree of security against false and deceptive alarms.

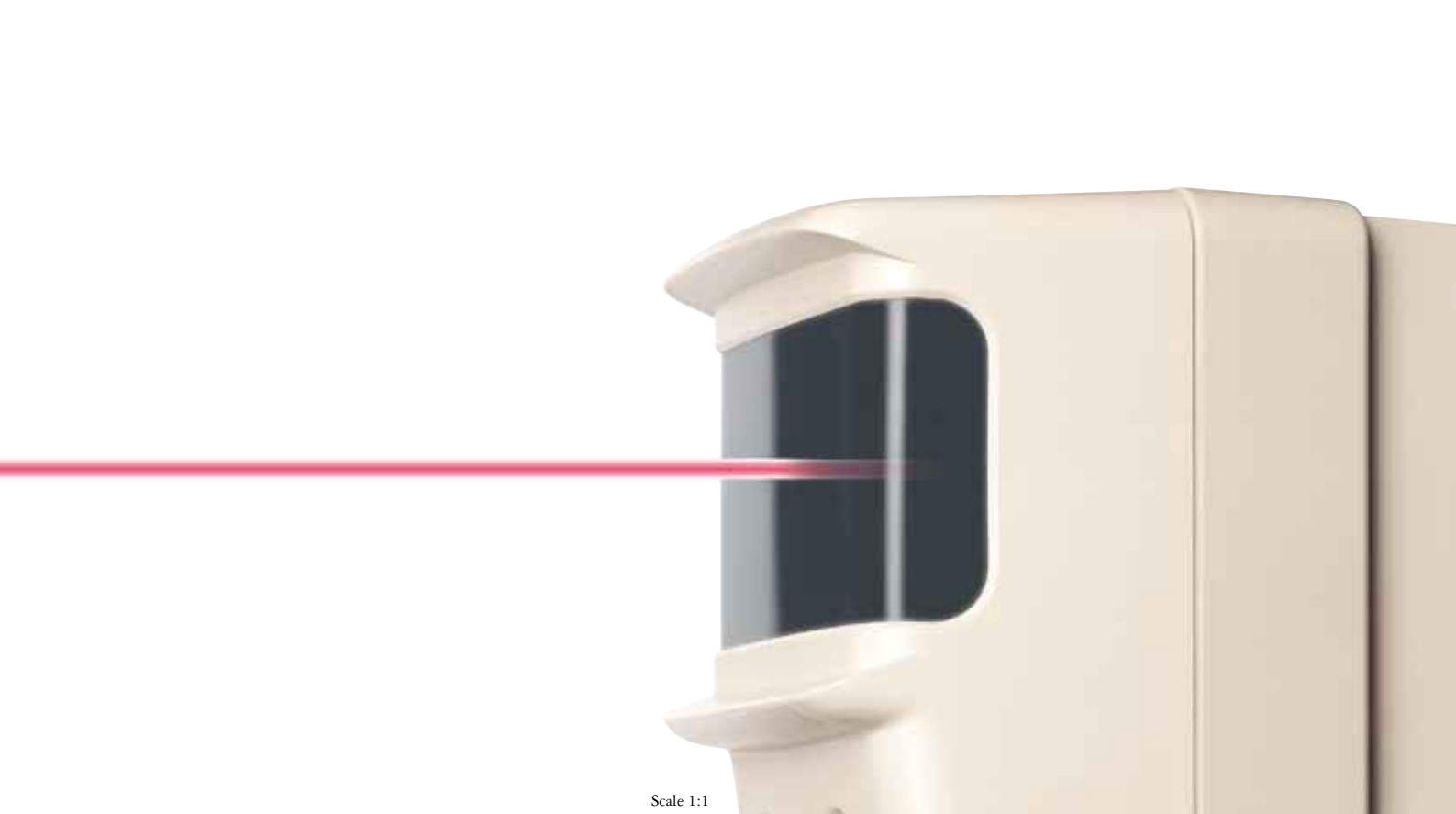
Reliability.

The SPB-E beam detector is setting precisely in accordance with the prevailing environmental conditions. Rooms in factories where a lot of dust is produced require a different setting to museums or churches. The sensitivity is set in percentage terms to the level of light obscuration.

Maintenance.

If the intensity of the infrared light beam exceeds the permitted threshold value, then the system sends out a fault signal. Every contamination of the system is detected and adjusted for accordingly. This presents a considerable advantage particularly in areas where there is a lot of dust accumulating. If the reference level is exceeded, then a message is sent to the fire alarm control panel, which indicates to the user that customer service must be called. Brief interruptions of the infrared light beam for a maximum of 30 seconds, such as by forklift trucks in warehouse areas, are automatically compensated. If the interruption of the infrared light beam lasts for more than 30 seconds, it is indicated by a fault signal. The system's normal operation is indicated by an LED.

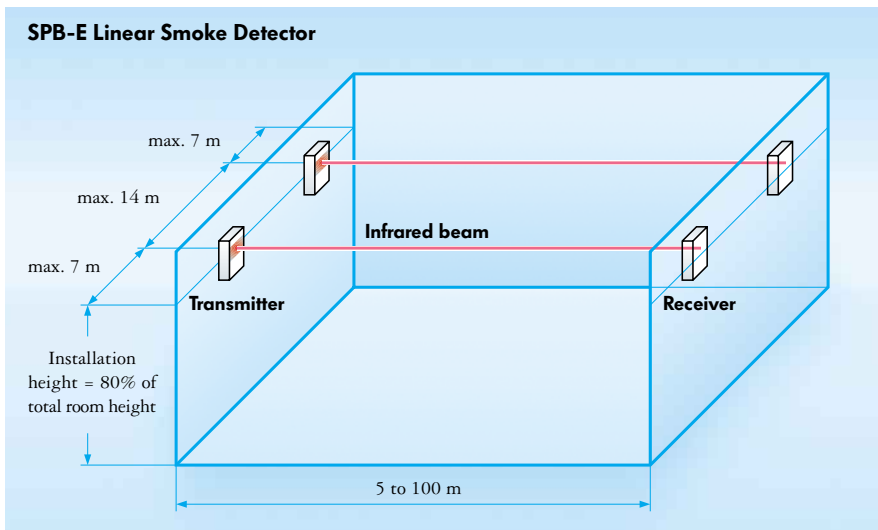




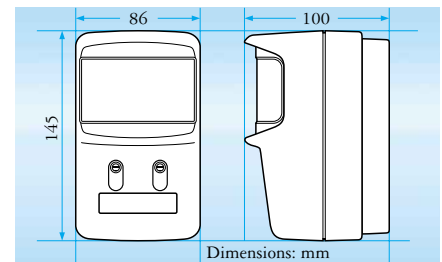
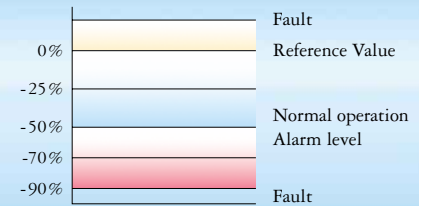
Scale 1:1



SPB-E Beam Detector.



Evaluation thresholds



The most important features.

- Automatic contamination compensation.
- Constant comparison with previous data.
- LED indicators denote operation, faults and alarms.
- A microprocessor is used to analyse the smoke.
- Particularly low current consumption.
- The beam detector can be connected to any Schrack fire alarm control panel using a standard fire alarm cable.
- Several sensitivity levels, which can be set according to environmental conditions.
- Compact case and light weight make installations simple and problem-free.

Technical details.

Signal processing: 8 bit microprocessor
 Operating voltage: 24 V
 Quiescent Current: 250 μ A
 Peak current: 2.5 mA
 Fault signal: 20 mA
 Alarm signal: 20 mA
 Sensitivity: 3 levels:
 25, 50, 70 %
 Temperature range: -10° to +50° C
 Dimensions: 86 x 100 x 145 mm
 Weight: Receiver: 900 g
 Transmitter: 600 g

SCHRACK SECONET AG

Headquarter Austria: A-1122 Vienna, Eibesbrunnergasse 18 • Tel.: +43-1-81157-0 • office@schrack-seconet.com

Technical support Fire Alarm Systems Tel.: +43-1-81157-570 • Technical support Health Care Systems Tel.: +43-1-81157-525

Branch offices Austria:

A-6850 Dornbirn, Sebastianstraße 13a • Tel.: +43-5572-51199-0

A-8055 Graz, Neuseiersberger Straße 157 • Tel.: +43-316-407676-0

A-6021 Innsbruck, Valiergasse 56 • Tel.: +43-512-365366-0

A-9020 Klagenfurt, Feldkirchner Straße 138 • Tel.: +43-463-429362-0

A-4060 Leonding-Hart, Kornstraße 16 • Tel.: +43-732-677900-0

A-5020 Salzburg, Vogelweiderstraße 44a • Tel.: +43-662-887122-0

Czech Rep. • CZ-100 00 Prag 10, V Úžlabině 1490/70 • Tel.: +420-2-74784422

Hungary • H-1119 Budapest, Fehérvári út 89-95 • Tel.: +36-1-4644300

Poland • PL-02-583 Warschau, ul. Woloska 9 • Tel.: +48-22-3300620-23

Russia • RU-129626 Moskau, Ul. Staroalexejevskaja 5 • Tel.: +7-495-510 50 15

Slovakia • SK-83003 Bratislava 33, P.O. Box 31, Odborárska ul. 52 • Tel.: +421-2-44635595

Sweden • SE-141 75 Kungens Kurva, Månskärsvägen 9 • Tel.: +46-8-680 18 60

Turkey • TR-34 722 Kadiköy-Istanbul, Sokak no.: 5/12 • Tel.: +90-216-345 51 99

Partner in (BG) (BY) (CY) (DK) (EST) (F) (GR) (HR) (I) (IL) (IND) (IR) (NL) (P) (RO) (RUS) (SGP) (SLO) (TR) (UA) (UAE) (VR)

FIRE ALARM

www.schrack-seconet.com

SCHRACK
S E C O N E T