



## SD-283ST Wired combined smoke and heat detector with built in siren

Detector is used to detect fire hazards in the interior of residential or commercial buildings. The detector is also suitable for installing in caravan trailers or mobile homes. The product is not designed to be installed in industrial premises.

- [Declaration of conformity - SD-283ST \(PDF 319.03 kB\)](#)
- [Declaration of performance - SD-283ST \(PDF 192.46 kB\)](#)

### Description

The detector indicates fire hazard using the built-in LED indicator and acoustic signalling. The detector can also be powered from an external 12 V DC source or from the alarm system control panel and it provides ALARM and TMP outputs. When the detector is used with inserted batteries (3x 1.5 V AA), it can continue operating as a stand-alone detector when the external 12 V power supply is disconnected.

The SD-283ST consists of two independent detectors – an optical smoke detector and a heat detector. The optical smoke detector works on the principle of scattered light. It is very sensitive to large dust particles which are present in dense smoke. It is less sensitive to smaller particles generated by the combustion of liquids such as alcohol. That is why the fire detector also contains a built-in heat detector which has a slower reaction but is much better at detecting fire which generates only a small amount of smoke.

### Technical specifications

**Power**

9 – 15 V DC/3.5 mA (150 mA during an alarm)  
 or 3 pcs of alkaline batteries AA (LR6) 1.5 V  
 Please note: Batteries are not included

**Typical lifetime**

approx. 3 years

**Smoke detection**

optical light scattering

**Smoke detector sensitivity**

$m = 0.11 - 0.13$  dB/m pursuant to EN 14604:2005, EN 54-7

**Heat detection**

class A1 according to EN 54-5

**Alarm temperature**

+ 60 °C to +65 °C

**Operating temperature range**

-10 °C to +70 °C

**Dimensions, weight**

diameter 126 mm, height 52 mm, 150 g

**Conformity**

EN 50130-4, EN 55022

**Recommended screw**

2x  $\varnothing$  3.5 x 40 mm (countersunk head)

