

## Universal smoke and heat detector for 12 V alarm systems

The **TSD-1** is a point detector designed to detect the early stages of a developing fire.

With TSD-1 detectors, an alarm system may provide both security and safety beyond intrusion detection. A successful detection of developing fire may allow for an early response and prevent both life threatening situation and a large property loss.

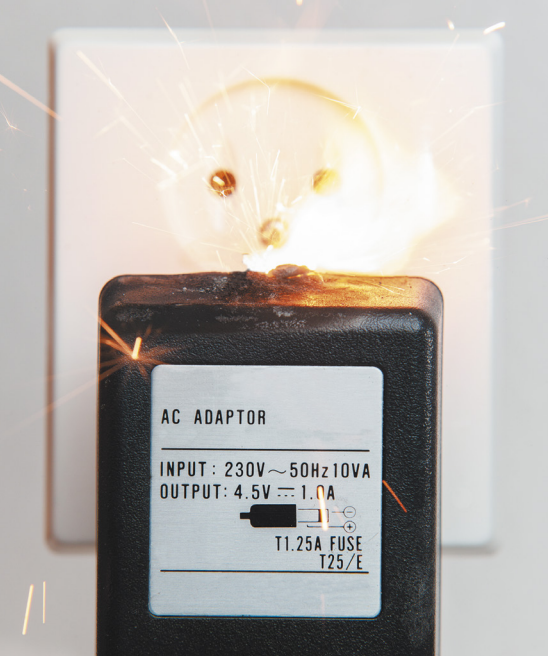


### Universal smoke and heat detector

Detector configuration with DIP-switches and built-in parametric end of line resistors facilitate **connection** of the detector **to** virtually **any control panel with a 12 V power supply**.

TSD-1 is equipped with a photoelectric sensor of visible smoke, as well as rate of rise temperature sensor. The unique design of the measuring chamber provides high sensitivity and omni-directionality, while a precise Hexamesh stainless steel filter protects the chamber from ingress of contamination and small insects.





## Product Features

- unique Swirl chamber for increased smoke sensitivity
- EN54-7 compliant smoke detection
- EN54-5 compliant heat detection
- selectable operating mode (smoke, heat, multisensor)
- line type configuration (NO/NC/2EOL) with DIP switches
- precision stainless steel Hexamesh filter
- smoke chamber dirt build-up indicator
- easy installation with detachable base
- compatible with all 12 V alarm panels



## TSD-1

### TECHNICAL DATA

Supply voltage	12 V DC
Enclosure dimensions	ø108 x 61 mm
Operating temperature range	-10...+55 °C
Standby mode current consumption	250 µA
Max. current consumption	24 mA
Weight	164 g
Relay contacts rated load (resistive)	40 mA / 16 V DC
Maximum humidity	93 ±3%
Class according to EN 54-5 (heat sensor)	A1R
Minimum static response temperature	54 °C
Maximum static response temperature	65 °C
Environmental class according to EN50130-5	II

**Satel**®

Budowlanych 66, 80-298 Gdansk, Poland  
tel. +48 58 320 94 00; fax +48 58 320 94 01  
e-mail: trade@satel.pl

[www.satel.eu](http://www.satel.eu)