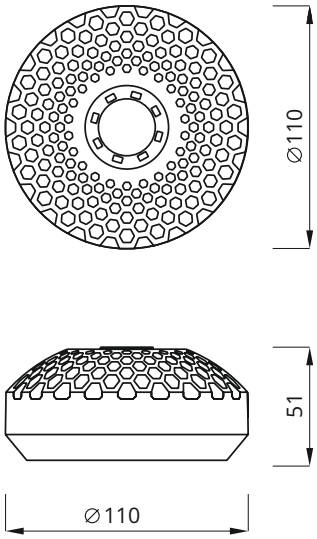
## FIRE DETECTORS

# SMOKE AND HEAT DETECTOR TS

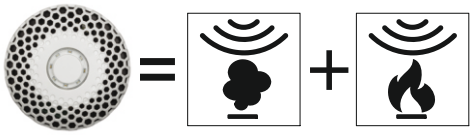
The heat and smoke detector is intended for detecting fires in their early phase. The detector has two sensors: heat and smoke. The application of two types of a sensor allows to detect all types of fires quickly and with certainty. The detector operates within the AWEX fire alarm system. The element can be installed on the detection loops or stub detection circuits.

The smoke and heat detector with two sensors is equipped with two sensors which detect fire. The smoke detection takes place in a detection chamber equipped with photoelectric diodes. Smoke goes to the chamber during fire. The particles of smoke reflect the light emitted by light emitting diodes which causes that an IR diode receives the signal and transmits it to a microprocessor. The heat detection takes place by means of 4-thermistor temperature measurement system. A fire alarm is generated when temperature limit is achieved, or in case of quick increase of temperature. Then, it recognises the type of alarm and transmits it to the detection circuits, and to the control unit.

**Dimensions (mm):**




**TS detector operation mode**



## Characteristics of the heat and smoke detector:

- Sensitivity degree and the temperature class comply with EN 54.
- Recognition of the state of soiling
- Regulation of alarm threshold which compensates the influence of the environment
- Smoke analysis supported by the heat analysis function
- The possibility of disconnection of particular detectors
- Indication of an alarm by means of the LED diode
- Additional LED diodes for the testing state
- External status indicator
- Integrated short-circuit isolator
- A casing with a low profile
- Operation in the addressable systems

| TECHNICAL DATA | |
|---|---|
| Name | Heat and smoke detector TS |
| Usefulness for test fires detecting | TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9 |
| Smoke detection | Optical, scattering, |
| Heat detector class | A1R |
| Heat detector detection | Overload, differential, |
| Working voltage | 24 V DC ± 25% |
| Quiescent current | <160 μA |
| Alarm current | <550 μA |
| Ambient temperatur | from -25°C to 55°C |
| IP rating | IP 20 |
| Acceptable relative humidity | 95% at the temperature of 35°C without condensation |
| Visual signalling | LED diodes, red, green |
| Dimensions | Ø110 x 50 mm |
| Weight | 200 g |
| Detector colour | White |
| Product code | FSD0000003 |