FIRE DETECTORS

SMOKE AND HEAT DETECTOR WITH THE VISUAL SIGNALLING DEVICE TSF

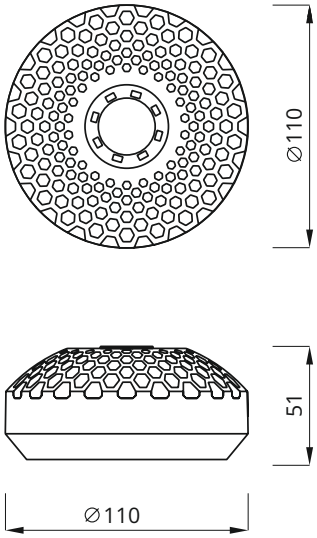
The heat and smoke detector is intended for detecting fires in their early phase. The detector has two sensors: heat and smoke. The application of two types of a sensor allows to detect all types of fires quickly and with certainty. The two-sensor detector operates within the AWEX fire alarm system. The element can be installed on the detection loops or stub detection circuits. Additionally, the detector has the flashing visual signalling devicebuilt-in due to which the detector fire alarm is visible from a large distance.
The two-sensor smoke and heat detector is equipped with two sensors for fire detection. 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.

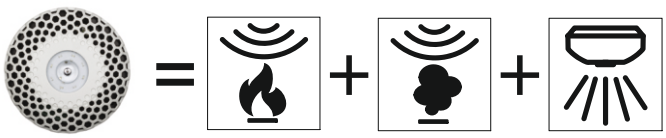
The heat detection takes place by means of 4-thermistor temperature measurement system. A fire alarm is generated when temperature limit is achieved, or in case of quick increase of temperature. Then, it recognises the type of alarm and transmits it to the detection circuits, and to the control unit.

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
- 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

Dimensions (mm):



TECHNICAL DATA	
Name	Heat and smoke detector with the visual signalling device TSF
Usefulness for test fires detecting	TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9
Smoke detection	Optical, scattering
Heat detector class	A1R
Heat detection	Overload, differential
Supply voltage	24 V DC ± 25%
Quiescent current	<160 μA
Alarm current	<2 mA
Ambient temperatur	from -25°C to 55°C
IP rating	IP 20
Acceptable relative humidity	95% at the temp. of 35°C without condensation
Visual signalling	green LED diode, red FLASH LED diode
Dimensions	Ø110 x 50 mm
Weight	200 g
Detector colour	White
Product code	FSD0000006

TSF detector operation mode