



## TUP-40 FIXED TEMPERATURE RATE-OF-RISE HEAT DETECTOR

### Overview

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The TUP-40 fixed temperature/rate-of-rise heat (temperature) detector is designed to detect a fire hazard in indoor premises, in which during the initial phase of a fire excessive or very fast rise of temperature can be observed, and where, due to existing conditions, installation of smoke detectors is not possible.

### Principle of operation

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The TUP-40 fixed temperature/rate-of-rise heat detector reacts to a rise in temperature occurring during a fire. The detector works as a fixed temperature detector when temperature exceeds the threshold pursuant to a given class, and as a rate-of-rise detector during a sudden rise in temperature. An electronic system with a measuring thermistor controls temperature changes in the surrounding area of the detector, which after differentiating the said changes transmits an appropriate alarm signal to the interoperating fire alarm control panel and switches on a red LED diode inside the detector. A fault of the detector's thermistor is signalled as a fire alarm.

An additional optical alarm signal of a detector or a group of detectors can be obtained by connecting the WZ-31 alarm indicator.

The TUP-40 detectors meet the requirements of the PN-EN 54-5 European standard. They are installed in the G-40 bases.

### Technical specifications

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Operating voltage	12 ÷ 28 V
Quiescent current	< 40 µA
Alarm current at 20 V	20 mA
Class of the detector (pursuant to EN 54-5)	A1R
Stable operating temperature	54 °C ÷ 65 °C
Typical operating temperature	25 °C
Operation temperature range	from -25 °C up to +50 °C
Relative humidity	up to 95 % at 40 °C
Dimensions:	
- with base	115 dia. x 54 mm
Mass	0.2 kg