



«How warm air can prevent a fire.»

The SecuriSens® ADW linear heat detector

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Picture: Kursiv

«When it comes to safety, don't play with fire.»

Fires and explosions cause sharp increases in ambient temperatures: the warmed air expands. Securiton used this simple physical principle in its development of the SecuriSens® ADW heat detector. The device quickly and reliably detects even the slightest increase in temperature, and is indispensable in harsh environments – those involving corrosive gases, extreme humidity, high temperatures or contaminated air.

Installing SecuriSens® ADW can protect lives, prevent damage and reduce insurance liabilities. Thousands of customers around the world benefit daily from the high degree of safety provided by this fast fire detection system. Such effective fire protection is easy to achieve, made possible by the use of user-friendly programming and evaluation routines, combined with a maintenance-free and failsafe operation.

«Effective fire protection thanks to air – and high-tech.»

The SecuriSens® ADW is a linear heat detector. Sensor tubing, made of copper and extending to a distance of over 100 metres, contains trapped air that monitors the ambient temperature. An electronic pressure transducer at one end of the tubing detects a rise in the internal air pressure signalling higher temperatures. Connected via a serial interface, a computer in the evaluating processor unit continually analyses these air pressure values and immediately triggers an alarm if a defined threshold is exceeded.

The system leaves nothing to chance: a monitoring motor with a pressurising pump generates always the same amount of excess pressure within the sensor tubing at regular intervals. If the measured pressure increase deviates from the programmed nominal value, the computer immediately reports a fault. The SecuriSens® ADW heat detector always plays it safe.

The benefits of SecuriSens® ADW:

- 100% monitoring coverage – even over great distances
- Resistant to harsh environmental conditions
- Low maintenance thanks to fully automated monitoring
- Exhibits optimal response behaviour with heat differential and maximum temperature evaluation whatever the application
- Programmable preliminary alarm
- Response behaviour compliant to EN 54-5 A1
- VdS- and UL-certified
- Version available with ATEX approval

SecuriSens® ADW provides optimal safety in:

- Multi-storey and underground car parks
- Cable and transport ducts
- Gas and district-heating circuits
- Chemical production plants
- Manufacturing facilities and warehouses
- Conveyor systems, logistics and distribution centres
- Storage tank installations
- Road, railway and metro/subway tunnels