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ASD from Siemens – invisibly efficient

Innovative technology for early fire detection with outstanding reliability

The innovative detectors FDA221 and FDA241 take aspirating smoke detection to a new level. Due to the intelligent optical dual-wavelength detection technology and the patented detection chamber, they detect fire very early and with the highest accuracy.

New technology enables greater detection reliability

Aspirating smoke detection (ASD) offers early fire detection for a wide range of applications. Air samples from the areas requiring protection are continuously drawn via pipes with sampling holes and are evaluated in a detector chamber for the presence of smoke.

The new aspirating smoke detectors FDA221 and FDA241 from Siemens use two wavelengths to differentiate between smoke and deceptive phenomena. This enables increased detection reliability even in the most demanding environments. In addition, FDA221 and FDA241 can be directly integrated into a Cerberus™ PRO fire detection system from Siemens.

Typical application areas

The new aspirating smoke detectors are particularly suitable for application areas where environmentally challenging conditions prevail, where an aesthetically appealing solution is desired or where high detection sensitivity is needed. This is the case, for example, in

- large spaces such as lobbies, warehouses and industrial production areas,
- hard-to-access areas like cable ducts and metro stations,
- highly ventilated areas, including data centers or clean rooms.

Answers for infrastructure.



Intelligent classification of airborne particles

The optical detection technology uses two wavelengths – blue and infrared. This enables FDA221 and FDA241 to detect smaller airborne particles produced in the earliest stages of overheating or as found in open fires.

By determining the size and concentration of the airborne particles, the detectors differentiate between smoke, dust and steam. This results in greater detection reliability and a high immunity to deceptive phenomena which prevents downtimes and costs caused by false alarms.

For applications from clean to harsh
 FDA221 covers an area of up to 500 m² with a programmable sensitivity range of 0.14 – 20%/m. FDA241 covers up to 800 m² with a programmable sensitivity range of 0.03 – 20%/m. The detectors offer up to three modes of operation: ultrasensitive, auto-discrimination and robust. Furthermore, an alarm threshold can be defined and programmed.

FDA241 additionally offers a programmable purge functionality as well as a programmable 4 – 20 mA remote output that is able to display smoke and airflow rate. This makes the detectors ideal for challenging applications.

Easy installation and integration

FDA221 and FDA241 are designed for easy out-of-the-box installation. They can be installed directly onto the detector loop of a Cerberus PRO fire detection system from Siemens. Because all detectors and peripherals share the same loop, less cabling is needed.

Low maintenance and long product life cycle

The patented chamber inside the detectors was specially designed to keep dust ingress to an absolute minimum. The benefits include an extended product lifespan and less maintenance – even if the detectors are installed in dusty and dirty environments.

Highlights

- Highest detection reliability – immunity to deceptive phenomena prevents false alarms
- Ideal choice for difficult environments
- Direct integration into a fire detection system from Siemens
- Patented chamber design – resulting in low maintenance effort and a long product lifespan

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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