TROX® TECHNIK
The art of handling air

DUCT SMOKE DETECTOR
RM-O-3-D

TESTED TO VDI 6022

WITH TROXNETCOM AS
AN OPTION

RM-O-3-D

Duct smoke detector used to prevent smoke from spreading through the ducts of ventilation and air conditioning systems

- To provide the control input signal for fire dampers
- To provide the control input signal for smoke protection dampers
- Can be installed into the inspection access openings of rectangular fire dampers
- For airflow velocities up to 20 m/s
- For any airflow direction
- Contamination level indicator
- Automatic adjustment of the alarm threshold, hence long service life and little requirement for maintenance
- Volt-free signal and alarm relays

Optional equipment and accessories

- Integration into the central BMS with TROXNETCOM
- Voltage monitoring module (24 V DC)

Application

Application

- Duct smoke detectors of Type RM-O-3-D are used to control fire dampers with electric or electric-pneumatic release mechanisms (power off to close)
- Control of smoke protection dampers with electric spring return actuators
- Used to prevent smoke from spreading through the ducts of ventilation and air conditioning systems
- Integration into the central BMS with TROXNETCOM

Special characteristics

- Smoke detection based on the principle of light scattering
- For airflow velocities from 1 to 20 m/s
- For any airflow direction
- Can be fitted onto the FK-EU
- With volt-free signal and alarm relays
- Integral signal lamps
- Contamination level indicator and automatic adjustment of the alarm threshold, hence long service life
- Can be used with products of any make or model
- Annual maintenance

Classification

- Building inspectorate licence Z-78.6-67 from the DIBt, Berlin, Germany

Description

Variants

- RM-O-3-D: Duct smoke detector

Parts and characteristics

- Duct smoke detectors with power supply unit, sensor electronics, and sensor head
- Reset/Test push button
- Signal lamp, green – operation (system monitoring)
- Signal lamp, red – release (alarm)
- Signal lamp, yellow – pollution (indicates contamination)

Accessories

- Voltage monitoring module (24 V DC)

Materials and surfaces

- Plastic casing

Standards and guidelines

- Building inspectorate licence Z-78.6-125 from the DIBt, Berlin, Germany
- Guideline regarding fire protection requirements on ventilation systems (Lüftungsanlagen-Richtlinie, LüAR)

Maintenance

- The functional reliability of the duct smoke detector must be tested at least every 12 months; this has to be arranged by the owner of the ventilation system; functional tests must be carried out in compliance with the basic maintenance principles stated in EN 13306 and DIN 31051.
- Duct smoke detectors must be included in the regular cleaning schedule of the ventilation system
- For details on maintenance and inspection refer to the installation and operating manual