



**DUCT SMOKE DETECTOR**  
**RM-O-VS-D**



TESTED TO VDI 6022



WITH TROXNETCOM AS  
AN OPTION

## RM-O-VS-D

### FOR SMOKE DETECTION IN DUCTS WITH INTEGRATED AIRFLOW MONITORING

Duct smoke detector with airflow monitoring function 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
- 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
- Airflow monitor

Optional equipment and accessories

- Integration into the central BMS with TROXNETCOM

Application



## Application

- Duct smoke detectors of Type RM-O-VS-D are used to control fire dampers and smoke protection 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
- Airflow monitoring
- With volt-free signal and alarm relays
- Integral signal lamps
- Choice of four airflow directions (every 90°)
- Easily removable sensor head (simplifies functional testing)
- Contamination level indicator and automatic adjustment of the alarm threshold, hence long service life
- Airflow monitoring unit (warning threshold < 2 m/s)
- Annual maintenance
- Can be used with products of any make or model

## Classification

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

## Description

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## Variants

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

## Parts and characteristics

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

## Materials and surfaces

- Plastic casing

## Standards and guidelines

- Building inspectorate licence Z-78.6-67 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