FAD-420-HS-EN Duct detector housing with base

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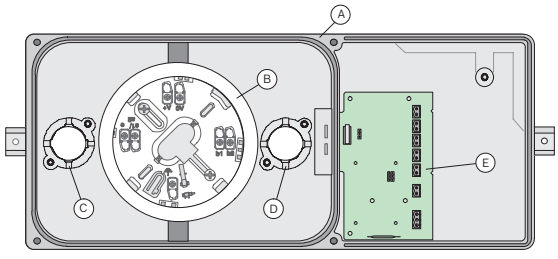
Invented for life

- Use in ventilation systems with air velocities from 1 m/s to 20 m/s
- For the activation of fans, door controls or external display devices an optional Relay Board can be installed
- A clear section on the frosted cover allows observing the alarm LED of the integrated FAD-425-O-R Detector
- Control to prevent unwanted removal of the cover
- Easy installation of the FAD-425-O-R Detector

The FAD-420-HS-EN Duct detector housing with base with integrated FAD-425-O-R Detector detects smoke in ventilation ducts. Smoke particles in the air are reliably detected and reported to the fire panel by the LSN improved bus system.

System overview



A Air sampling housing

B Detector Base for the FAD-425-O-R Detector

C,D Mounting flange for sample tube or ventilation tube

E Connection board

Functions

Air from the ventilation duct is constantly directed through the sample tube and the air sampling housing to the purpose-built FAD-425-O-R Detector.
Smoke particles in the air are reliably detected and reported to the fire panel by the LSN improved bus system.

Certifications and approvals

Region	Regulatory compliance/quality marks	
Europe	CPR	0786-CPR-21151 FAD-420-HS-EN
Germany	VdS	G 211088 FAD-420-HS-EN
Europe	CE	FAD-420-HS-EN, FAD-425-OR, FAD-RB-DIBT
Poland	CNBOP	063-UWB-0144 FAD-420-HS-EN

Installation/configuration notes

- Air velocities from 1 m/s to 20 m/s
- Horizontal or vertical mount of housing
- If a remote indicator is connected, the FAD-RB-DIBT Relay Board **must not** be used!

Parts included

Quantity	Component
1	Air sampling housing with connection board, Detector base and installation material
1	D344-1.5 sample tube (length 45.7 cm)
1	Ventilation tube
2	D344-TF air filter for sample and ventilation tube

Notice
Please note that the FAD-420-HS-EN does not come with the required FAD-425-O-R Detector. The FAD-425-O-R Detector has to be ordered in addition.

Technical specifications

FAD-420-HS-EN Duct detector housing with base

Electrical

Operating voltage	24 V DC (15 ... 33 V DC)
Maximum current consumption	Approx. 0.55 mA (approx. 0.75 mA when FAD-RB-DIBT Relay Board is installed)
Electromagnetic susceptibility (EMS)	EN 50130-4
Electromagnetic emission (EME)	EN 61000-6-3

Mechanics

Dimensions (H x W x D)	16.5 x 39.5 x 11 cm
Material and Color	
• Housing base	Plastic fiber reinforced, PPE + PS (UL94-V1), grey
• Housing cover	Plastic, PC (UL94-V2), clear
• Weight	Approx. 1.5 kg

Environmental Conditions

Permissible air velocity	1 m/s ... 20 m/s
Permissible operating temperature	0 °C ... 50 °C
Permissible storage temperature	-20 °C ... 60 °C
Permissible relative humidity	95 %, non condensing
Protection class as per EN 60529	IP 30

FAD-RB-DIBT Relay Board

Maximum contact load	2 A at 30 V DC
Weight	11 g

Ordering information

FAD-420-HS-EN Duct detector housing with base
air sampling housing with connection board and detector base for FAD-425-O-R. The detector must be ordered in addition.
Order number **FAD-420-HS-EN**

Accessories

FAD-425-O-R Duct detector, optical
Analog addressable optical detector for use in air sampling housing FAD-420-HS-EN
Order number **FAD-425-O-R**

FAD-RB-DIBT Relay board for DIBT application
relay board for DIBT applications
Order number **FAD-RB-DIBT**

D344-1.5 Sample tube, duct 1.5'/45.7cm
length 45.7 cm (1.5 ft)
Order number **D344-1.5**

D344-3 Sample tube, duct 3'/91.4cm
length 91.4 cm (3 ft)
Order number **D344-3**

D344-5 Sample tube, duct 5'/152cm
length 1.52 m (5 ft)
Order number **D344-5**

D344-TF Duct tube filters, 20pcs
Replaceable filters for duct detector sampling tubes, available in packages of 20
Order number **D344-TF**

FAA-420-RI-DIN Remote indicator for DIN application
For applications where the automatic detector is not visible, or mounted in false ceilings/floors.
This version complies with DIN 14623.
Order number **FAA-420-RI-DIN**

FAA-420-RI-ROW Remote indicator
For applications where the automatic detector is not visible, or mounted in false ceilings/floors.
Order number **FAA-420-RI-ROW**

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