



DFA05 mini40

High sensitivity air sampling detection

- EN54-20 certified
- CE certified according to CPD

DFA05 mini40 is a high sensitivity air sampling detector, ideal to monitor small areas. It takes continuous air samples via one sampling pipe tube networks, then supply the samples to one smoke sensors. Thanks to this detection method and the product's excellent properties under severe ambient conditions, DFA05 aspirating smoke detector is used wherever problems are to be expected related to a **difficult access to a monitored area or other variable disturbance so optimal protection can no longer be guaranteed with regular fire detectors.**

DFA05 mini40 exists in 1 smoke detection zone. The zone is monitored by the means of an aspirating system and a smoke analysing detector which sensitivity is suitable between 0,002%/m to 10%/m, according to the class of fire detection to fulfil.

DFA05 mini40 is perfect used for lift shafts, Data centres, clean rooms, archive rooms, ventilation ducts, false ceiling or floor, high risks areas (laboratories, computer rooms), discrete installation (Prisons, museums)...

Optional 5-relay interface module and memory card module for memory events storage are also available.

The configuration of the device and the pipe network design can be done through a complete set of software: **Sampling Pipe Config engineering software for **calculation** allowing to **engineer EN54-20 compliant systems**.**



Main characteristics

- Early and accurate smoke detection
- 1 sampling line with air flow monitoring
- 1 detection channel
- One sensitivity for detection 0,002-10%/m
- Online dirty status compensation
- Option 5-relay board for information repetition
- Option SD memory card to save memory events
- Calculation software: Sampling Pipe Config
- Low noise level, compliant with ISO 11690-1
- Elegant design and discrete installation

Power supply specification

	DFA05 mini40
Main supply voltage	14 to 30 VDC
Nominal	24V
Fault	75 mA
Alarm	75 mA
Additional RIM35	7 mA (per optional board)
Additional MCM35	10 mA (per optional board)

Mechanical characteristics

Unit weight	max. 1.950 Kg
Unit dimensions (in mm)	195 x 290 x 140 mm
Unit row material and color	ABS Blend / Grey - anthracite violet
Noise level (at fan speed level 3)	<32 dB
IP rating	54

Climatic characteristics

Detector housing temperature range	-10 to +55°C
Max approved temperature fluctuation	20°C (fluctuation between sampling pipe and housing)
Ambient pressure difference	Must be identical (from housing to sampling pipes environment)
Detector housing humidity	95 % rel.hum. without condensation (ambient condition)
Humidity ambient temperature	70 %rel.hum.

General characteristics

Detector sensitivity range	0,002-10%/m
Display	Leds for power, alarm, fault, dirty status
Relay contacts	Fault, Alarm line (50 VDC, 1A, 30W)
Communication port	Doesn't need

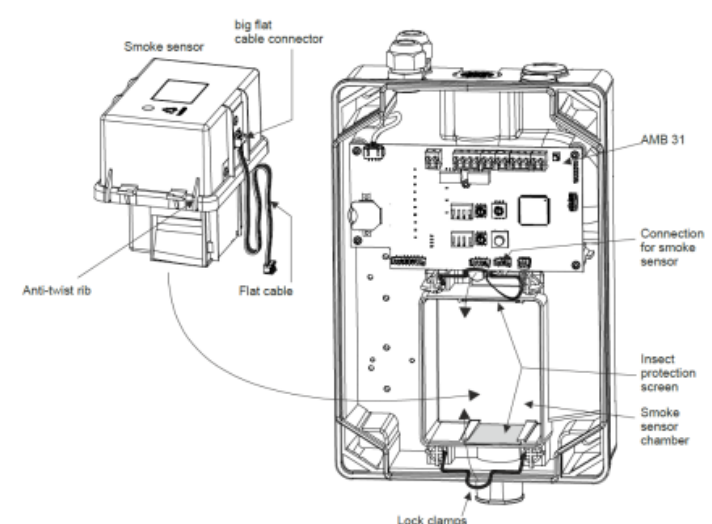




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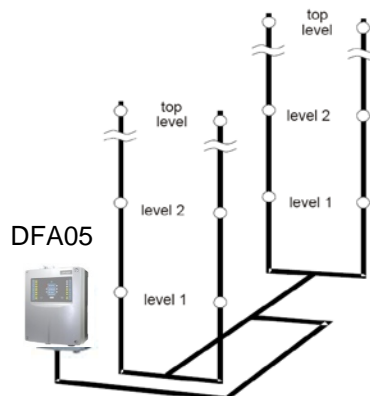
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Operating principle generality



Example of pipe configuration Easy Configuration

Forme H- vertical



PIPE NETWORK			
Tube diameter	25mm		
Max. Number of holes	Class A: 6	Class B: 8	Class C: 12
Max. length per pipe network:	Class A: 75m	Class B: 75m	Class C: 75m
Max. area to cover (12 holes)*:	60m ² /hole: 360 m ²	60m ² /hole: 480 m ²	60m ² /hole: 720 m ²
Configuring/Modelling	Predefined as per EN54-20 (Basic Config) Application specific (Sampling Pipe Config)		

REFERENCE

DFA05 mini40
SSD 535-3
RIM35
Sampling Pipe Config

DESCRIPTION

Conventional single channel high sensitivity detector base
High sensitivity smoke detector module, alarm sensitivity range 0,002%/m to 10%/m
Relay interface module
System design software

