## **SIEMENS**



**FDBZ292** 

Sinteso™ Synova™ AlgoRex Cerberus® PRO

# Air sampling smoke detection kit

CE

FD20, collective/SynoLINE600, AnalogPLUS/SynoLOOP, interactive

- Reliable monitoring of fresh air, used air and air re-circulation ducts for smoke in air conditioning and ventilation systems
- Suitable for air speeds of 1... 20 m/s
- Smoke detection with the Sinteso, AlgoRex and Synova 600 series smoke detectors
- Adaptable detection algorithms
- Simple installation with only one air flow tube
- Accessories for all shapes of duct

- The air sampling smoke detection kit is a passive monitoring system without its own fan. It makes use of the existing pressure difference in the ventilation system in order to supply a continuous flow of air through a bypass from the ventilation duct to the air sampling smoke detection kit.
- The air sampling smoke detection kit only works if the ventilation system is in operation and the air is circulating. The monitored air must be clean, i.e. free from dust and aerosols.
- When a smoke concentration set in the smoke detector is reached, the corresponding danger level is signaled to the fire alarm control unit which initiates the corresponding alarm.

### Design

## The air sampling smoke detection kit consists of:

- the air duct sampling chamber (grey plastic housing with transparent cover)
- the end plug for the air flow tube
- the sealing for the air flow tube
- all necessary screws

Air duct sampling chamber



End plug

Sealing





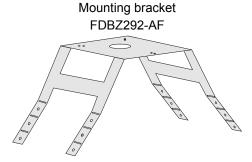
The smoke detectors and bases as listed below to be ordered separately.

Sinteso				
Base	Detector			
FDB201, FDB201-AA FDB221, FDB221-AA	FDO241			
	FDOOT241-8			
	FDOOT241-9			

AlgoRex / Synova			
Base	Detector		
DB1101A	DO1103A, DO1104A		
DB1131A / SO620A	DO1133A		
DB1151A	DO1153A		

Cerberus PRO		
Base	Detector	
DB1101A	DO1104A	

#### **Options**



for uneven, round and insulated ducts

Air flow tube
FDBZ292-AA,-AB,-AC

0.6 m, 1.5 m, 2.8 m (FDBZ292-AB,-AC with additional end gasket)

Sealing kit FDBZ292-AD

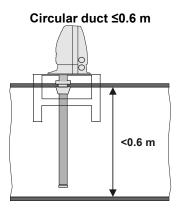


necessary at application with the mounting bracket and the longer air flow tubes

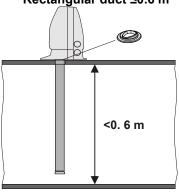
- The air sampling smoke detection kit is mounted in the ventilation system where air flow measuring devices are usually installed, i.e. where there is no air vortex, change of direction, duct branching, duct narrowing or duct extensions. The distance to the branching, bracket or bend must have 5 x the duct diameter.
- In order to guarantee smoke detection, mount the air duct sampling after the last air inlet.

#### Installation method

- The air duct sampling chamber is mounted on the outside of the air duct. Only the air flow tube is introduced through a hole drilled into the duct and shortened according to the diameter of the duct.
- Normally, the air duct sampling chamber is mounted on the air duct using metal screws. It can also be mounted without difficulty on uneven, round or insulated ducts using the mounting device.



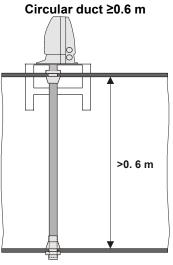
Rectangular duct ≤0.6 m



- FDBZ292-AD Sealing kit (1x)
- FDBZ292-AF Mounting bracket
- FDBZ292-AA Air flow tube 0.6 m
- FDBZ292 Air sampling smoke detection kit
   FDBZ292 Air sampling smoke detection kit

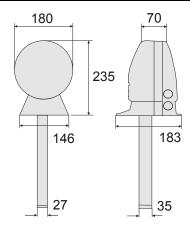
Rectangular duct ≥0.6 m

- FDBZ292-AA Air flow tube 0.6 m



- >0.6 m
- FDBZ292-AD Sealing kit (2x)
- FDBZ292-AF Mounting bracket
- FDBZ292-Ax Air flow tube 1.5/2.8 m
- FDBZ292 Air sampling smoke detection kit
   FDBZ292 Air sampling smoke detection kit
  - FDBZ292-AD Sealing kit (1x)
  - FDBZ292-Ax Air flow tube 1.5/2.8 m

#### **Dimensions**



## **Technical data**

ABS
IP54
grey, ~RA L7001
see table
Sinteso -> FDnet
AlgoRex -> interactive, AnalogPLUS, collective
Synova -> SynoLINE600, SynoLOOP
Cerberus PRO -> collective, in C-NET via
FDCIO223
Aluminum
1 20 m/s
≥1 m/s
-20 + 50 °C
≤95 % rel.
G207139 with smoke detector FDOOT241-8,
FDOOT241-9 with parameter set no 9

## **Details for ordering**

Туре	Part no	Designation	Weight
FDBZ292	A5Q00021362	Air sampling smoke detection kit	0.800 kg
FDBZ292-AA	A5Q00021363	Air flow tube, Length 0.6 m	0.353 kg
FDBZ292-AB	A5Q00021364	Air flow tube, Length 1.5 m	0.882 kg
FDBZ292-AC	A5Q00021366	Air flow tube, Length 2.8 m	1.647 kg
FDBZ292-AD	A5Q00021367	Sealing kit	0.030 kg
FDBZ292-AF	A5Q00021369	Mounting bracket	0.630 kg
DBZ1190-AB	BPZ:4942340001	Connection terminal 1 2.5 mm <sup>2</sup>	0.002 kg

Sinteso fire detectors see documents 007005, 008141

Synova, AlgoRex fire detectors see documents 001578, 001331

Siemens Switzerland Ltd
Industry Sector
Building Technologies Division
International Headquarters
Fire Safety & Security Products
Gubelstrasse 22
CH-6301 Zug
Tel. +41 41 724 24 24
www.siemens.com/buildingtechnologies

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