

# Optical Filtrex Detector

## FTX-P1

- **ADM loop technology with System Sensor/200 protocol**
- **For use in heavily contaminated areas**
- **Replaceable filter**
- **Constant response sensitivity**
- **Function testable with magnet**



### Description

The addressable Optical Filtrex Smoke Detector FTX-P1 uses the scattered light principle and was developed for the detection of smoke particles in heavily contaminated areas. The detector is used, for example, in industrial plants where dust is released by production or cleaning.

By means of an integrated fan, air samples are drawn into the sensing chamber through two separate filters. The fan is powered by a separate 24VDC supply and operates in a 15% duty cycle (5 seconds on, 30 seconds off), thus allowing low power consumption as well as precise evaluation of the air samples.

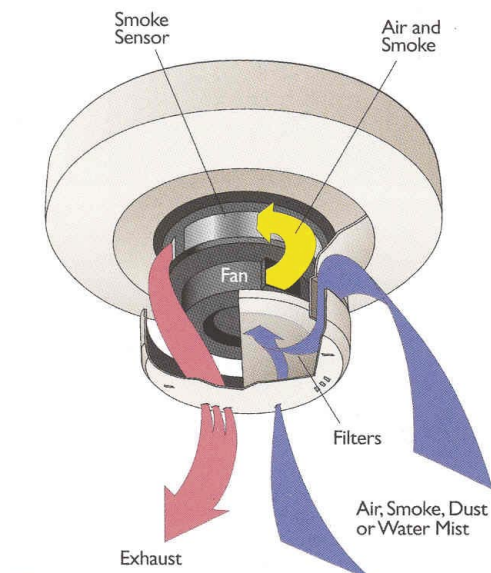
The filters are monitored for contamination. They are designed to let smoke reach the sensing chamber, whereas causes of deceptive alarms (dust particles and tiny drops of water) are kept away from it. The outer filter is removeable and can be cleaned or replaced by the operator. The modern design of the sensing chamber allows to reliably evaluate the characteristics of fire.

The proven ADM loop technology with System Sensor/200 protocol establishes a permanent communication between the fire detection control panel and the detector. That ensures a periodical function testing of the detector. In the control panel all types of fires are detected by continuously comparing fire patterns.

Intelligent evaluation algorithms use the current condition of the sensing chamber to predict the likely time of the next maintenance. Thus the alarm threshold is automatically adjusted within the permissible range, depending on the contamination. With that, the constant response sensitivity of the detector is ensured for the duration of its usage.

The two LEDs with 360° visibility indicate the activated condition of the detector. The detector address is selected with two decadic rotary switches, thus allowing to change the detector without additional tools.

A detector function test can be conveniently conducted using a magnet or test gas. The detector is attached to the base B524FTXE.



## Specifications

Operating voltage	Supply through loop voltage
Current consumption sensor	max. 230µA (quiescent)
Operating voltage fan	15 – 30VDC
Cyclic current consumption fan	6mA in quiescent state (30s), 60mA in operation (5s)
Ambient temperature	-10°C to +55°C
Relative humidity	10 – 93% (no condensation)
Dimensions ø × H	102 × 89 (mm)
Colour	cream
Weight	207g
Approval	DIFT 0845-CPD-232.1427 (Denmark)
Order number	241019
Order name	Optical Filtrex Smoke Detector/Anal./500/SS FTX-P1

### Detector Base/Filtrex

Dimensions ø × H	102 × 35 (mm)
Colour	cream
Weight	91g
Order number	246012
Order name	Detector Base Filtrex/Anal./500/SS B524FTXE

### Replacement Filter/Filtrex

Dimensions ø × H	80 × 19 (mm)
Colour	cream
Weight	10g
Order number	249047
Order name	Replacement Filter for Filtrex RF-FTX