

ANALOGUE - Photoelectric Smoke Detector

Model FTX-P1 Filtrex™

Overview

Features

- High density filter removes particulate down to 34 microns
- Air delivery system is separately powered
- Filter is easily field replaceable
- Approved for use in high airflow (20m/s)
- Optional remote LED
- Rotary decade address switches
- No modification required to panels compatible with Series 200 plus intelligent photoelectric sensor
- Twin alarm LEDs provide 360° visibility
- Tested and approved to EN54 – 7:2000 (Amendment 1)



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Description

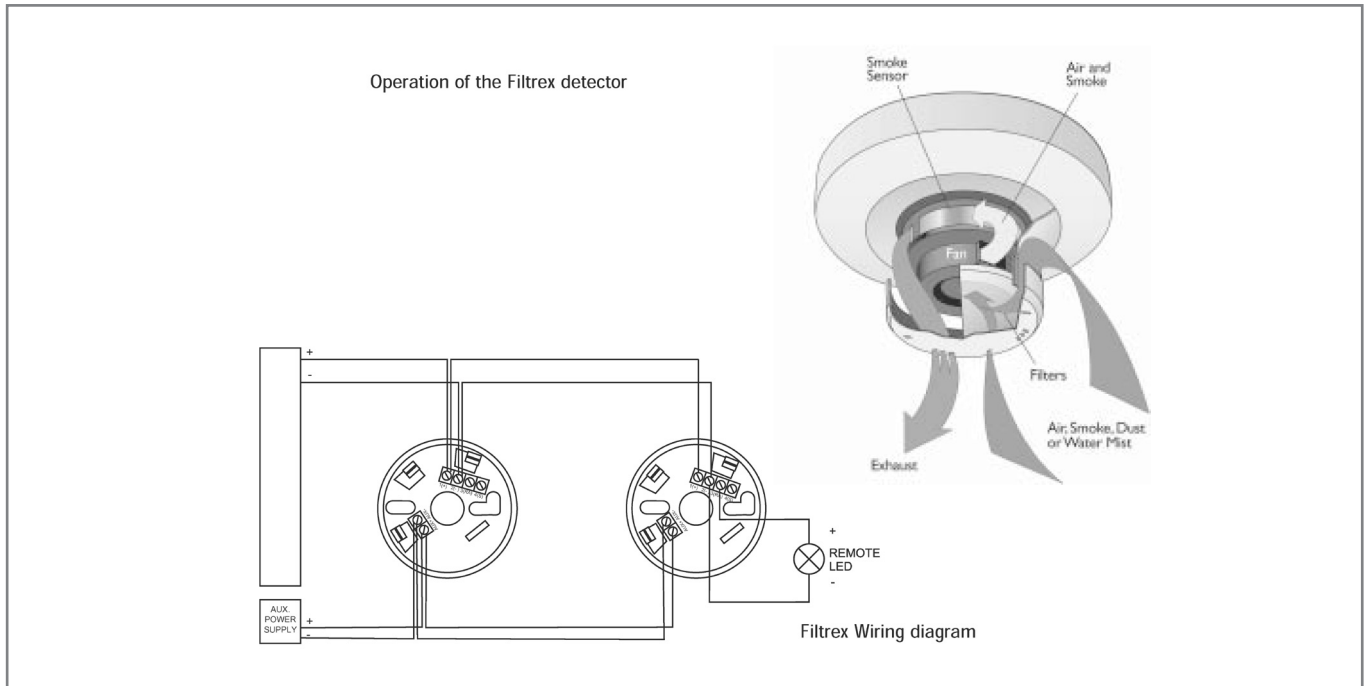
The Filtrex™ Smoke Detector provides early warning smoke detection in difficult environments where traditional smoke detectors are not practical. Using a small air intake fan and a high density replaceable filter, air and smoke are drawn into a photoelectric sensing chamber while dust is removed. This feature allows Filtrex to protect in difficult applications, such as textile or paper mills, where previously only thermal detectors could be used. A second non-removable filter protects the detector from dust whilst the primary filter is being replaced.

The fan in the Filtrex detector is powered from a separate 24V supply. In order to minimise current consumption, the fan is pulsed – 5 seconds on and 30 seconds off. The correct operation of the fan and filter is constantly supervised, and a fault signal is generated if the fan fails, or if the filter becomes blocked. Filtrex can be used with any panel compatible with existing 2251E detectors, but requires an external 24V power supply and should be mounted only in the special B524FTXE base.

Model FTX-P1 smoke detectors include a tamper feature that prevents removal from the base without the use of a tool.

Architect/Engineer Specifications

FTX-P1 FILTREX™ Photoelectric Smoke Detector



Electrical Specifications

Operating Voltage Range (detector)	15 to 32VDC
Operating Voltage Range (fan)	15 to 30VDC
Current Consumption Detector	250µA at 24VDC (without communication)
Air Delivery System	6mA standby 123mA maximum
Air Delivery System	60mA typical when checking for smoke 27mA average
Air Delivery System	80mA typical when checking for proper airflow.

Environmental Specifications

Application Temperature Range	-10°C to 55°C
Humidity	10% to 93% Relative Humidity (non-condensing)

Mechanical Information

Height	72mm (98mm including base)
Diameter	104mm
Weight	214g

Product Range

Mounting base B524FTXE	Replacement Filter RF-FTX
Water Resistance Dust Cover B524FTXE - WRC	Wet Base WB1

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 Installation information: in order to ensure full functionality, refer to the installation instructions as supplied.