

FTX-P1 FILTRETTM

INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR

PART OF THE *series* FAMILY

200^{PLUS}

FEATURES:

- High density filter removes particulate down to 32 microns
- Air delivery system is separately powered and fully supervised
- 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 *plus* intelligent photoelectric sensor
- Twin alarm LEDs provide 360° visibility
- Tested and approved to EN54-7:2000



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DESCRIPTION

The FiltrexTM 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.

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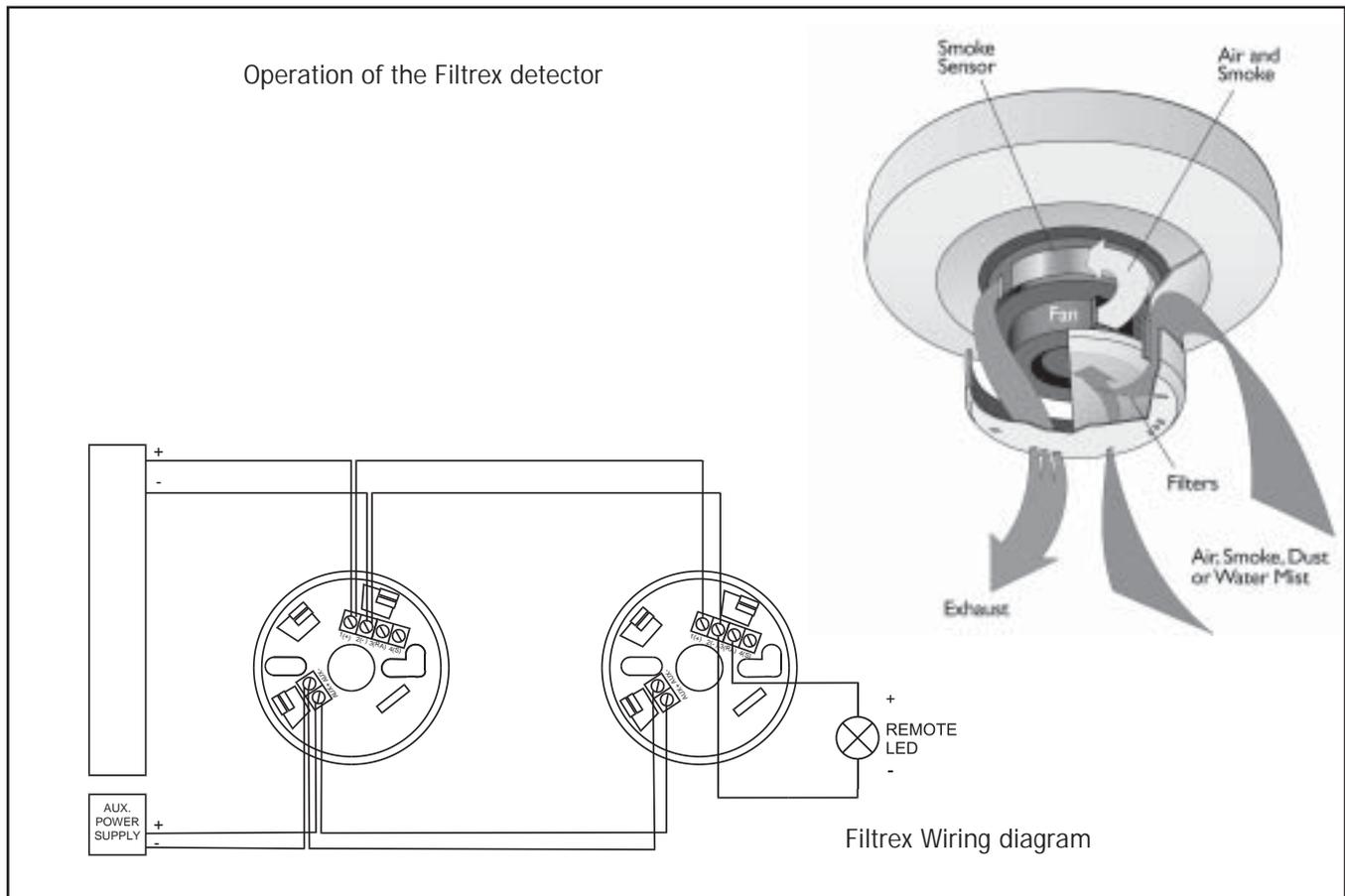
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**SYSTEM
 SENSOR**

FTX-P1 FILTREX™ INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR



SPECIFICATIONS

Electrical

Operating Voltage Range (detector): 15 to 32VDC

Operating Voltage Range (fan): 15 to 30VDC

Current Consumption

Detector: 230 μ A at 24VDC (without communication)
285 μ A at 24VDC (one communication every 5s, LED blinking enabled)

Air Delivery System: 6mA standby
60mA typical when checking for smoke (5s on, 30s off)
80mA typical when checking for proper airflow (15s on every 4 hours),
123mA maximum
27mA maximum average

Environmental

Operating Temperature: -10°C to 55°C

Operating Altitude: -300m to 1200m

Relative Humidity: 10% – 93% Relative Humidity (non-condensing)

Mechanical

Height: 89mm

Diameter: 102mm

Weight: 207g

Product Range

Mounting base: B524FTXE

Replacement Filter: RF-FTX

Water Resistant Dust Cover: B524-FTXE-WRC

Wet Base: WB1