

Filtrex™ Intelligent Photoelectric Smoke Detector



Models

FTX-P1
FTX-P1A

Base

B501B-FTX
B501B-FTXA

Accessories

RF-FTX
RA400Z
M02-04-01
M02-09-00



Product Overview

Intelligent communications

High density filter removes particulate down to 32 microns

Air delivery system is separately powered and fully supervised

Filter is easily field replaceable

Resistant to water spray in applications where occasional hose-down cleaning is performed

Optional remote LED accessory

Rotary decade address switches

Compatible with 200 and 500 Series products' protocol

No modification required to panels compatible with System Sensor intelligent photoelectric smoke detectors

System Sensor Filtrex Smoke Detector provides early warning smoke detection in difficult environments where traditional smoke detectors are not practical. Filtrex provides protection in dirty, dusty environments that tend to cause false alarms with standard smoke detectors.

Operation:

Using a small air intake fan and a high density replaceable filter, air and smoke are drawn into a photoelectric sensing chamber while airborne particulate and water spray are removed. When the filter becomes too clogged to draw adequate air into the sensing chamber, power is cut from the detector, causing a trouble signal at the fire alarm control panel. When the filter is replaced, power-up is automatic.

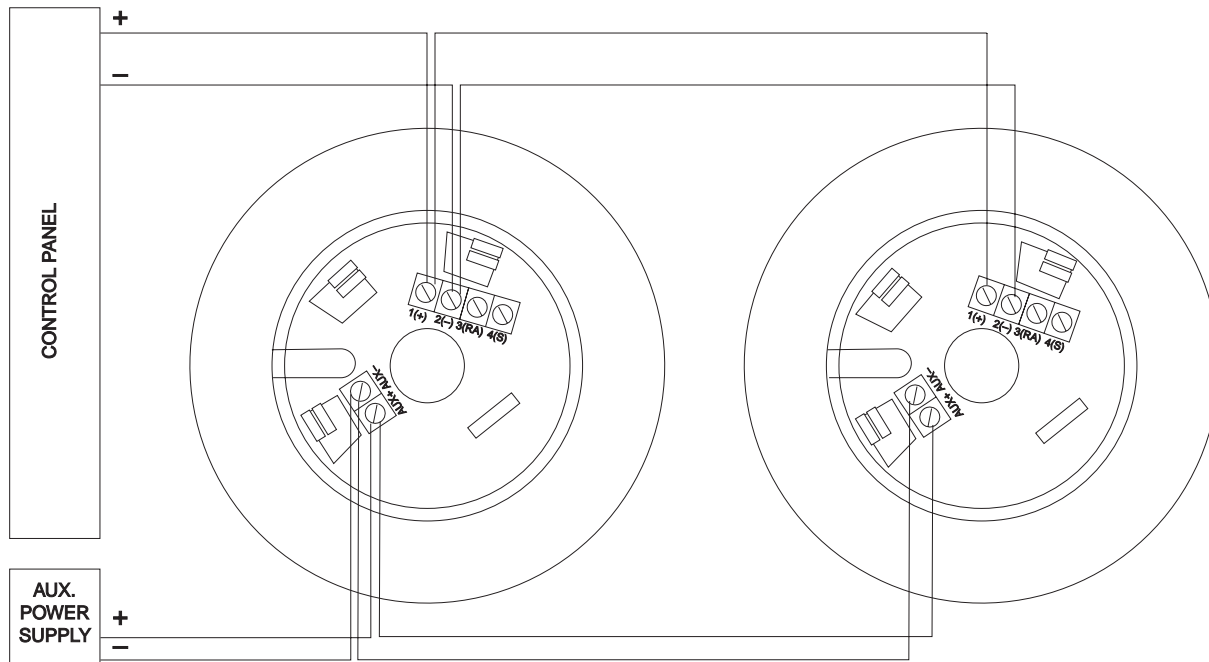
Applications:

Animal research facilities
Institutional laundry facilities
Amusement parks
Zoos
Performance theatres
Loading docks
Paper mills
Textile mills

Specifications

Size 3.5" (8.9 cm) H x 6.1" (15.5 cm) diam, in B501B-FTX base	External/Auxiliary Power Supply Voltage Range 15–30 VDC (filtered)	Air Intake Fan On 5 seconds every 30 seconds
Weight 7.3 oz. (207 grams)	External/Auxiliary Power Supply Maximum Current 123 mA	Filter Airflow checked every 4 hours
Signaling Line Circuit Supply Range 15–32 VDC	External/Auxiliary Power Supply Avg. Current 27 mA	
Detector Current (max. avg.) 250 μ A @ 24 VDC (without communication) 360 μ A @ 24 VDC (one communication every 5 seconds with LED enabled)	Temperature Range 32° to 122°F (0° to 50° C)	
	Relative Humidity 10% to 93% noncondensing	

Filtrex Wiring Diagram



Ordering Information

Model	Description
FTX-P1	Photoelectric smoke detector
FTX-P1A	Photoelectric smoke detector, (Canadian)
B501B-FTX	Flanged adapter base, 6.1" (15.5 cm)
B501B-FTXA	Flanged adapter base, 6.1" (15.5 cm), (Canadian)
RF-FTX	Replacement filter cover assembly (6 pack)
RA400Z	Remote LED annunciator, fits U.S. single gang electrical box
M02-04-01	Test magnet
M02-09-00	Test magnet with telescoping handle

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