GENERAL DESCRIPTION

The 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 air-borne 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 missing device 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

FEATURES

- **Intelligent communications**
- **High density filter removes particulate down to 25 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 MRI-200 and MRI-500 Series products' protocol**
- **Appears like an MRI-2251 Photosmoke Detector to panel**

TECHNICAL DATA

Voltage, addressable loop	15 to 32 VDC
Current, addressable loop	360 µA max. avg.
Voltage, external	15 to 30 VDC
Current, external	27 mA avg.; 123 mA max.
Air Intake Fan	on 5 seconds every 30 seconds
Filter	Airflow checked every 4 hours
Temperature range	0° to 50°C (32° to 122°F)
Humidity range	10% - 93% RH non-condensing
Dimensions	8.9 cm (3.5") H by 15.5 cm (6.1") diam. in MRI-B501B-FTX base
Weight	207 g (7.3 oz.)

ORDERING INFORMATION

Model	Description
MRI-FTX-P1	Photoelectric smoke detector
MRI-B501B-FTX	Flanged mounting base, 15.5 cm (6.1") dia.
MRI-RF-FTX	Replacement Filters, Pack of 6
MRI-M500X	Isolator module
MRD-M02	Test magnet
MRD-RA400Z	Remote LED annunciator

Wiring Diagram

Air Handling System
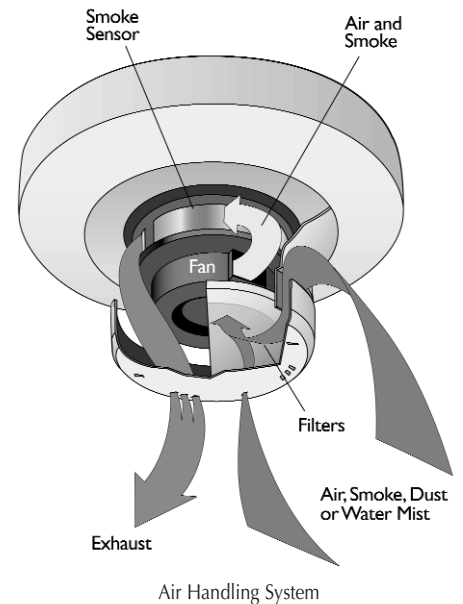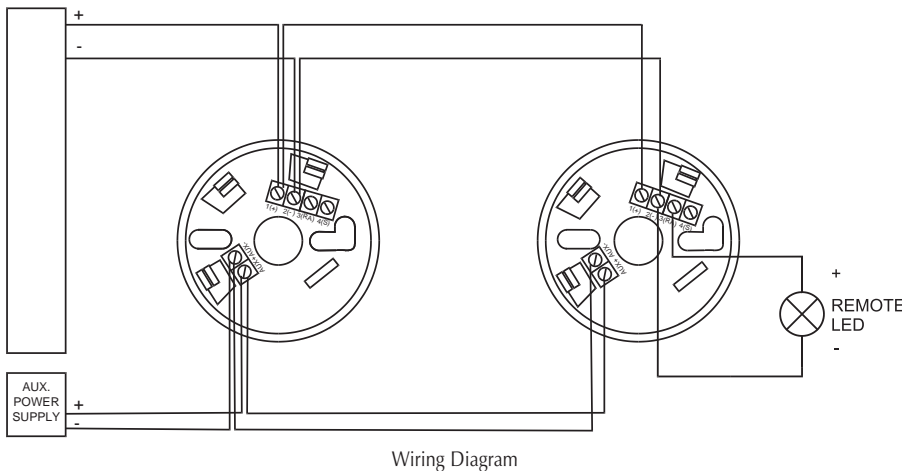
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MODUL-R MRI-FTX-P1 Analog Photoelectric Smoke Detector