

DESCRIPTION

The FCI Model ASD-FILTREX™ photoelectronic analog addressable smoke sensor provides early warning smoke sensing in harsh environments where traditional smoke sensors are impractical.

The ASD-FILTREX™ sensor combines traditional smoke photoelectronic sensing technology with a unique smoke sampling system. A small intake fan draws air and smoke into the sensing chamber where a filter removes airborne contaminants and water mist from the air. Two high density filters remove particulate as small as 25 microns. One filter can be removed for field cleaning, while the second is permanent and provides sensor protection during cleaning. The fan cycles on and off in a 15% duty cycle to increase service life and reduce current consumption. The air delivery system is fully supervised, with internal circuitry to detect a clogged filter, fan failure, loss of power or communications. If a filter clogs, the user is alerted to service the unit. Power-up is automatic when the unit is cleared.

This feature allows the sensor to sense smoke while remaining unaffected by dust, dirt or occasional water over-spray encountered in hostile environments, which otherwise would create nuisance alarms or “very dirty” indications in regular analog sensors.

The rugged construction makes the sensor resistant to water spray where occasional hosing-down cleaning is performed.

While providing a solution for many hostile environments, the ASD-Filtrex™ is not considered applicable for use in corrosive, hazardous or explosive areas or conditions exceeding the ambient conditions specified below.

Sensitivity is tested via a magnet placed against the housing per the installation instructions.



FEATURES

- **Suited for Harsh Environments**
- **High Performance Filter Removes Particulate of 25 Microns**
- **Compatible with FCI 7100/7200 Series Analog Controls**
- **Fully Supervised Air Delivery System**
- **Remote LED annunciator (Optional)**
- **Field Replaceable Filter**
- **Water Vapor Resistant -Allows Hose-Down Cleaning**

TECHNICAL INFORMATION

Operating voltage	15 - 32 VDC
Standby current (SLC)	.00036 A
Alarm current (SLC)	.007 A
Current (Auxiliary)	.006 amp. standby, .060 amp. checking for smoke, .080 amp. when checking for airflow.
Operating /Installation temperature	32 to 120° F (0 to 49° C)
Operating Humidity	10% to 93% non-condensing
Dimensions	3.5" H x 4.0" Dia. (8.9 cm x 10.2 cm)

ORDERING INFORMATION

Part No.	Model	Description
112-90017	ASD-FILTREX™	Analog PE Smoke Sensor for Harsh Environments
112-90018	ADB-FILTREX™	Sensor Base, Flanged
270-90001	RF-FTX	Replacement filters/caps for detector (6-pack)

FILTREX™ is a Trademark of System Sensor Div.

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