Description

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

The ASD-FILTREX-F 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 (2), high density filters remove particulate as small as 25 microns. One filter can be removed for field cleaning, while the second filter 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.

The Velociti™ Series use a communication protocol that substantially increases the speed of communication between the sensors and certain Gamewell-FCI analog addressable fire alarm controls. These devices operate in a grouped fashion. If one of the devices in the group has a status change, the panel's microprocessor stops the group poll and concentrates on the single device. The net effect is response speed up to five times greater than earlier designs.

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.

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Harsh Environment Analog Addressable Photoelectronic Smoke Sensor

ASD-FILTREX-F

Features

- Suited for harsh environments.
- High performance filter removes particulate of 25 microns.
- Compatible with most Gamewell-FCI analog addressable series fire control panels.
- Bicolor LEDs flash green whenever the sensor is addressed, and light steady red on alarm.*

Note: Only the red LED is operative in panels that do not operate in Velociti™ mode.

Ordering Information

Model	Description
ASD-FILTREX-F	Analog PE Smoke Sensor for Harsh Environments
ADB-FILTREX-F	Sensor Base, Flanged
RF-FTX	Replacement filters/caps for detector (6-pack)

An ISO 9001-2000 Company

SIGNALING

UL LISTED S1913   FM APPROVED 3023594   MEA Approved 219-02-E Vol.VI   07272-0694:263

Description (Continued)

While providing a solution for many hostile environments, the ASD-FILTREX-F is not considered applicable for use in corrosive, hazardous or explosive areas or conditions exceeding the ambient conditions specified in the table. Sensitivity is tested via a magnet placed against the housing per the Installation Instructions.

Specifications

Operating Voltage:	15 - 32 VDC
Standby Current (SLC):	.00036 A
Alarm Current (SLC):	.007 A
Current (Auxiliary):	.006 A standby,
	.060 A checking for smoke,
	.080 A when checking for airflow.
Operating/Installation Temperature:	32° to 120° F (0 to 49° C)
Operating Humidity:	10 to 93% (non-condensing)
Dimensions:	4 1/2" H x 4" W x 1 1/4"
	(11.4 x 10.1 x 3.2 cm)