NOTIFIER® by Honeywell

FSA-5000, FSA-8000 FSA-20000

Intelligent FAAST® Series Detectors



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Intelligent FAAST® Series aspirating smoke detectors deliver highly accurate early warning fire detection and standard fire detection.This meets the needs of a variety of environments, including mission-critical facilities like data centers where downtime from smoke or fires can be incredibly costly.

The ability to configure FAAST for standard fire detection allows FAAST to be used in harsh environments where standard spot detectors may be subject to nuisance alarm conditions. As FAAST can be easily tested via a test port within the pipe network it can simplify the testing associated with standard detectors.

The Intelligent FAAST® Series detectors combine dual-source optical smoke detection (blue LED and infrared laser) with advanced algorithms to detect a wide range of fires while maintaining enhanced immunity to nuisance particulates. The combination enables the detectors to accurately detect incipient fire conditions as early as 30 to 60 minutes before a fire actually starts.

Three models are available for use in different size & style of applications: FAAST XS, FAAST XM and FAAST XT. The specific model numbers are FSA-5000, FSA-8000 and FSA-20000. They provide standard detection coverage to protect the following areas:

- FSA-5000(A) (Intelligent FAAST XS): Up to 600 sq m through one pipe.
- FSA-8000(A) (Intelligent FAAST XM): Up to 1,000 sq m through one pipe.
- FSA-20000(A) (Intelligent FAAST XT): Up 2000 sq m through one to four pipes.

These detectors are listed for use with the Onyx™ AFP-3030 and operate in FlashScan® mode only.

An Intelligent FAAST® series detector connects to the SLC loop of compatible intelligent panels using FlashScan® protocol to communicate up to five levels of events for display and use in control-by-event system programming. Using the SLC connection, the system operator can also review real-time information on percent of alarm, drift compensation percent, and temperature.

The system operator can also put an Intelligent FAAST detector into service mode, or reset airflow baselines. Intelligent FAAST series detectors support multiple sensitivity modes - two for FAAST XM and FAAST XS; three for FAAST XT. In Acclimate® mode, the detector automatically adjusts itself to current environmental conditions to reduce nuisance alarms. Day/Night/ Weekend mode enables technicians to preset alarm thresholds based on routine changes in the environment.

Alternate or additional monitoring is supported in several different ways, including: Serial or TCP Modbus, Ethernet over a LAN or a direct connection, or via onboard USB. When connected to a LAN, FAAST series devices email server can provide email event notification to appropriate personnel.

PipeIQ® is intuitive design, configuration, and monitoring software used for all FAAST series devices.

The all-in-one program can be used to create a pipe network tailored to meet site specific requirements,

configure a FAAST device, and monitor an installed device. Live trending and historic reports are available.

Features & benefits

- Detection as precise as 0.00095%/m obscuration.
- Multiple alarm levels provide application flexibility: three on FAAST XS, and five on FAAST XM and, FAAST XT.
- In Acclimate® mode, the detector automatically adjusts itself to current environmental conditions to reduce nuisance alarms. Day/night/Weekend mode enables technicians to preset alarm thresholds based on routine changes in the environment. An Intelligent FAAST series detector can self-adapt to its environment in 24 hours.
- Comprehensive, simple and intuitive display has real-time, quick-read information at the device including alarm levels, particulate levels, air flow, power and a wide range of faults to quickly identify the problem for prompt correction.
- The onboard Ethernet interface enables monitoring from any compatible Internet browser, smart phone or mobile device with VPn capability. Detector can be configured to e-mail status updates to appropriate personnel.
- TCP and serial Modbus for easy integration with Building Management Systems.
- Fault indicators exhibit a broad spectrum of events.
- Unique air flow pendulum graph verifies pipe network functionality. Particulate graph displays subtle environmental changes for early problem indications.
- Approved for use in Class I, Division 2, Groups A,B,C, and D Hazardous Locations (FAAST XM, FAAST XT only).
- User configurable 3-speed fan, allowing for maximum coverage area or minimizing current consumption [FSA- 5000, FSA-20000 only].

FlashScan Capabilities

- FSA-5000, FSA-8000, and FSA-20000 connect to the Signaling Line Circuit (SLC) loop of OnYX AFP-3030 panels.
  - For FSA-8000(A), panel firmware version 20 or higher is required.
  - For FSA-5000 and FSA-20000, panel firmware version 23 or higher is required.
- Uses 5 detector SLC addresses, which support multiple event thresholds individually programmed for descriptive labels, and control by event logic. Sensitivity for all event thresholds are programmed with the PipeIQ utility.
  - FAAST XM, FAAST XT: Up to 5 event thresholds
  - FAAST XS: Up to 3 event thresholds.
- Detector fault reporting at panel.
- Supports setting one device as an Aspiration reference for other Intelligent FAAST sensors on the same SLC loop.

ONYX AFP-3030/NCA-2 Capabilities

- Displays the real-time read status of percent of alarm, drift compensation percentage, and temperature by point.
- Put Intelligent FAAST detectors into Service Mode, shutting the device down for maintenance.
- Reset airflow baselines for an Intelligent FAAST detector.
- Individual CBE activation of the 5 event relays on the Intelligent FAAST (relays also turn on based on the associated event level threshold).

Specifications for all intelligent FAAST® series detectors

ELECTRICAL SPECIFICATIONS	
External Supply Voltage	18-30 VDC
Power Reset	1 sec
Relay Contact Ratings	3.0 A @ 30 VDC, 0.5 A @ 125 VAC

ENVIRONMENTAL RATINGS	
Operating Temperature	0°C to 38°C ; Factory Tested to 55°C
Sampled Air Temperature	-20°C to 60°C
Humidity Range	10 to 95% (non-condensing)
IP Rating	IP30
Air Movement	0-1,219 m/min
Sensitivity Range	0.00095% Obs/m to 20.5% Obs/m

PHYSICAL SPECIFICATIONS	
SLC Connection	Standard SLC connections
Communication Network	Ethernet monitoring, 6 E-mail address alerts, Modbus/TCP
Wire Gauge	2.05 mm max. to 0.5 mm min
Outside Pipe Diameter	25mm
Internal Pipe Diameter	15-21mm
Event Log	18,000 events stored

Specifications for specific models

FAAST XS FSA-5000	
Coverage	Up to 600sq m through one pipe
Cable Access	Three cable-entry holes located on top, side, and back of unit [1 inch (2.54 cm)]
Avg. Operating Current	Fan High - 200mA, 4.8W; Fan Med - 151mA, 3.7W; Fan Low - 120mA, 2.1W
Alarm	Fan High - 230mA, 5.6W; Fan Med - 172mA, 4.2W; Fan Low - 142mA, 3.5W
Relays	5 Form C, 3 A, programmable latching or nonlatching
Maximum Single Pipe	Length 54.8 m. All designs must be verified within PipeIQ software.
Total Pipe Length	91.5m. All designs must be verified within PipeIQ software.
Size	27.9 cm tall x 22.9 cm wide x 15.9 cm deep
Shipping Weight	3.99 kg includes packaging material.

FAAST XM FSA-8000(A)	
Coverage	1,000 sq m through one pipe
Cable Access	Four cable-entry holes located on top and bottom of unit [1 inch (2.54 cm)].
Avg. Operating Current	415 mA @ 24 VDC.
Alarm	25mm
Relays	8 Form C, 3 A, programmable latching or nonlatching
Maximum Single Pipe	80m All designs must be verified within PipeIQ software.
Total Pipe Length	137m All designs must be verified within PipeIQ software.
Size	33.7 cm tall x 33 cm wide x 12.7 cm deep
Shipping Weight	5.26 kg includes packing material.

FAAST XT FSA-20000	
Coverage	2,000 sq m through one to four pipes.
Cable Access	Four cable-entry holes located on top and bottom of unit [1 inch (2.54 cm)]
Avg. Operating Current	Fan High - 465mA, 11.2W; Fan Med - 340mA, 8.2W; Fan Low - 220mA, 5.3W
Alarm	Fan High - 493mA, 11.85W; Fan Med - 368mA, 8.85W; Fan Low - 248mA, 6W
Relays	8 Form C, 3 A, programmable latching or nonlatching.
Maximum Single Pipe	123m. All designs must be verified within PipeIQ software.
Total Pipe Length	320m. All designs must be verified within PipeIQ software
Size	33.8 cm tall x 33.3 cm wide x 19.1 cm deep
Shipping Weight	5.4 kg includes packing material.

User inter face display

- Up to five alarm levels.
  - FAAST XS: Three alarm levels (Alert, Fire 1, & Fire 2).
  - FAAST XM, FAAST XT, Five alarm levels (Alert, Action 1,
- Action 2, Fire 1, & Fire 2).
- Ten particulate levels.
  - FAAST XS: Three single-color flow with more info on the LCD
  - FAAST XM: Ten bi-color flow.
  - FAAST XT, Ten single-color flow with more info on the LCD.

Agency listings and approvals

The listings and approvals below apply to Intelligent FAAST® Series components. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- FSA-5000: AS1603.8 Activfire # afp-3014
- FSA-8000: AS1603.8 Activfire # afp-3020
- FSA-20000: AS1603.8 Activfire # afp-3018
- Approved for use in Class I, Division 2, Groups A,B,C, and D Hazardous Locations (FAAST XM, FAAST XT only)

Product line information

FSA-5000 (Intelligent FAAST XS): Intelligent aspiration smoke detector, covers up to 600 square metres. FlashScan mode.

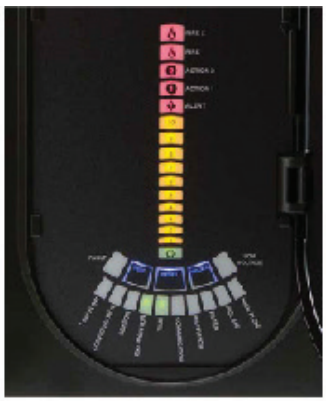
FSA-8000 (Intelligent FAAST XM): Intelligent aspiration smoke detector, covers up to 1,000 square metres. FlashScan mode.

FSA-20000 (Intelligent FAAST XT): Intelligent aspiration smoke detector, covers up to 2,000 square metres. FlashScan mode.

F-A3384-000: replacement Air Filter.



User Interface Display: Intelligent FAAST® XS



User Interface Display: Intelligent FAAST® XM



User Interface Display: Intelligent FAAST® XT

For more information
www.notifier.com.au

Honeywell Security & Fire
9 Columbia Way Baulkham Hills NSW 2153, Australia
Ph: 1300 234 234 (Australia)
Ph: +64 9 623 5050 (New Zealand
www.honeywell.com

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