

FAAST™

Fire Alarm Aspiration Sensing Technology



Conventional Smoke Detector

General

The FAAST 8100 aspirating smoke detector combines dual source (blue LED and infra-red laser) optical smoke detection with advanced algorithms to detect a wide range of fires while maintaining enhanced immunity to nuisance particulates. This enables FAAST to accurately detect incipient fire conditions as early as 30 to 60 minutes before a fire actually starts for Early Warning Fire Detection and Very Early Warning Fire Detection. For initial system creation, the PipeIQ software guides users through pipe layout. The software also provides intuitive control over system configuration and ongoing system monitoring. An installed device can be monitored through its integral display, from a computer connected to the device, or remotely through a computer browser or mobile device when the detector is connected to the Internet via its Ethernet port. When Internet-connected, FAAST can also e-mail status updates to appropriate personnel. The detector can communicate alarm levels, urgent and minor faults, and isolate inputs via eight form C relays. To enable a full detection strategy, FAAST combines its advanced communications capabilities with an extensive range of customizable settings. The detector provides five alarm levels that can be programmed for latching or non-latching relays. To accommodate specific codes or environments, alarm delays can be set anywhere between 0 to 60 seconds. FAAST also supports two sensitivity modes: 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.

Features

- Detection as precise as 0.00046 %/ft obscuration
- Five alarm levels and two sensitivity modes provide application flexibility
- Dual flow detection including both ultrasonic and electronic-sensing for pipe and chamber air flow measurement
- A single device protects up to 8,000 square feet
- Advanced detection algorithms reject common nuisance-conditions
- Patented particle separator and field-replaceable filter remove contaminants from the system
- PipeIQ™ software provides intuitive system layout, configuration, and monitoring all in one package
- Using the onboard Ethernet interface, you can monitor the detector from any internet browser, smart phone or mobile device with VPN capability. You can also configure the detector to e-mail status updates to appropriate personnel.
- 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
- 5 programmable alarm levels for latching or non-latching as well as a 0 to 60 second delay to best accommodate local codes or environments
- At startup FAAST self-adapts to its environment in just 24 hours, not weeks. The exclusive Acclimate mode automati-



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cally adjusts within your specified parameters to reduce nuisance alarms and adjust to current conditions.

- Comprehensive, simple and intuitive display has real-time, quick-read information at the device including 5 alarm levels, 10 particulate levels, air flow, power and a wide range of faults to quickly identify the problem for prompt correction.

Specifications

ELECTRICAL SPECIFICATIONS

External Supply Voltage: 18-30 VDC

Remote Reset Time: External monitor must be pulled low for a minimum of 100 ms

Power Reset: 1 sec.

Avg. Operating Current: 500 mA @ 24 VDC

Alarm: 650 mA – All relays active, all alarm levels displayed. Voltage @ 24 VDC

Relay Contact Ratings: 3.0 A @ 30 VDC, 0.5 A @ 125 VAC

ENVIRONMENTAL RATINGS

Operating Temperature: 32°F (0°C) to 100°F (38°C)

Sampled Air Temperature: -4°F (-20°C) to 140°F (60°C)

Humidity Range: 10 to 95% (non-condensing)

IP Rating: IP30

Coverage Area: 8,000 sq. ft. (743 sq. m)

Air Movement: 0-4,000 ft./min. (0-1,219 m/min.)

PHYSICAL SPECIFICATIONS

Height: 13.25 inches (33.7 cm)

Width: 13.0 inches (33 cm)

Depth: 5.0 inches (12.7 cm)

Cable Access: 4 1-inch (2.54 cm) cable entry holes on top and bottom of unit

Wire Gauge: 12 AWG (2.05 mm) max. to 24 AWG (0.5 mm) min.

Maximum Single Pipe Length: 262 ft. (80 m)

Maximum Branched (2) Pipe Length: 165 ft. (50 m) each branch

Maximum Air Inlet Holes: 40 holes

Network Outside Pipe Diameter: 1.050 inches, IPS (25 mm)

Internal Pipe Diameter: 0.591 to 0.827 inches (15-21 mm)

Sensitivity Range: 0.00046 %/ft. obs – 4.0 %/ft. obs

Relays: 8 form C, 3 AMP, programmable latching or non-latching

Event Log: 18,000 events stored

Communication Network: Ethernet monitoring, 6 E-mail address alerts

Shipping Weight: 8.5 lbs. (3.8 kg), includes packing material



FAAST User Interface Display - The User Interface consists of 5 Alarm levels - Alert, Action 1, Action 2, Fire 1, and Fire 2, 10 Particulate levels, 10 Bi-color Flow and Fault graph.

Agency Listings and Approvals

The listings and approvals below apply to FFAST 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.

- **UL** Listed: S911
- **ULC** Listed: S911 (8100A)
- **FM** approved
- **CSFM:** 7259-1653:0215
- **Maryland State Fire Marshal:** Permit # 2244

Product Line Information

8100: FFAST Conventional Fire Alarm Aspiration Sensing Technology

F-A3384-000: Replacement Air Filter

F-LCARD-SP: Language Card - Spanish

P-PIPE-210: CPVC Pipe (210 feet total)

P-COUPLING: Coupling (15 each)

P-ELB-45: 45° Elbow (10 each)

P-ELB-90: 90° Elbow (20 each)

P-ENDCAP: End Cap (25 each)

P-TEE: Tee (15 each)

P-UNION: Union (10 each)

P-LABEL-P: Pipe Label (100 each)

P-LABEL-T: Sampling Point Labels (100 each)

P-SAMP-KT: Sampling Point Kit (10 sets)

HP300ULX: Power Supply, 12/24VDC, 2.4 A DC

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