



# FAAST XS Fire Alarm Aspiration Sensing Technology®

*FAAST XS aspirating smoke detectors deliver highly accurate Very Early Warning Fire Detection for the smaller applications and offer extensive communication capabilities.*

## Features

- Provides Very Early Warning Fire Detection, as precise as 0.00029%/ft obscuration
- Three alarm levels and three sensitivity modes provide application flexibility
- User configurable 3-speed fan, allowing for maximum coverage area or minimizing on current consumption
- Ultrasonic flow sensing and chamber airflow monitoring for precise system health information
- A single device covers up to 5,000 square feet (464 sq. m)
- Dual source optical detection chamber with enhanced algorithms provide high sensitivity with greater immunity to nuisance conditions
- Patented particle separator removes large, non-fire particulate, ensuring chamber health and extending the life of the field-replaceable filter
- TCP and Serial modbus for easy integration with building management systems
- Easy configuration via USB interface, no external power needed
- Onboard Ethernet interface enables remote monitoring, configuration, web server and e-mail notifications
- Multilingual LCD user interface allows for detailed device information and interaction such as: Active faults, precise airflow monitoring, reset of airflow baseline, test/reset/isolate, and more
- Configurable air flow fault thresholds and verification period
- Convenient wiring compartment
- Status-at-a-glance provides immediate alarm, fault and airflow status



**The FAAST XS** aspirating smoke detector combines advanced particle separation with unique dual source optical smoke detection technology to provide highly sensitive Very Early Warning Fire Detection while providing enhanced immunity to false alarms. This technology enables FAAST XS to accurately detect incipient fire conditions as early as 60 minutes before a fire actually starts when set for Early Warning and Very Early Warning Fire Detection in applications ranging from mission critical to harsh and extreme environments.

An installed FAAST XS device can protect up to 5,000 sq. ft. (464 sq. m) in standard coverage type applications and can be monitored in several different ways, including: Serial or TCP Modbus, Ethernet over a LAN or a direct connection, or via FAAST XS's onboard USB. When connected to a LAN, FAAST XS's email server can provide email event notification to appropriate personnel. FAAST XS also communicates alarm and notifications via form C relays.

PipeIQ® is FAAST XS's intuitive design, configuration, and monitoring software. The all-in-one program can be used to create a pipe network tailored to meet site specific requirements, configure a FAAST XS device, and monitor an installed device -- including live trending and reading of historic reports.

\*A complimentary download of PipeIQ is available at [systemsensor.com/faast](http://systemsensor.com/faast).

## Agency Listings (Pending)

SIGNALING



S911



**FAAST**  
FIRE ALARM ASPIRATION SENSING TECHNOLOGY™

## FAAST XS 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.   |
| Operating Current            | Fan High - 200mA, 4.8W; Fan Med - 151mA, 3.7W; Fan Low - 120mA, 2.1W                   |
| Alarm Current                | Fan High - 230mA, 5.6W; Fan Med - 172mA, 4.2W; Fan Low - 142mA, 3.5W                   |
| Relay Contact Ratings        | 3.0 A @ 30 VDC, 0.5 A @ 125 VAC 8 form C, 3 AMP, programmable latching or non-latching |
| Operating Specifications     |  |
| Operating Temperature        | 32°F (0°C) to 100°F (38°C); Factory Tested to 131°F (55°C)                             |
| Sampled Air Temperature      | -4°F (-20°C) to 140°F (60°C)   |
| Humidity Range               | 10 to 95% (non-condensing)   |
| Sensitivity Range            | 0.00029% Obs/ft to 6.25% Obs/ft (0.00095% Obs/m to 20.5% Obs/m)                        |
| IP Rating                    | IP30   |
| Coverage Area                | 5,000 sq.ft. (464 sq.m)  |
| Air Movement                 | 0-4,000 ft./min. (0-1,219 m/min.)  |
| Physical Specifications      |  |
| Height                       | 11.0 in (279mm)  |
| Width                        | 9.0 in (229mm)   |
| Depth                        | 6.25 in (159mm)  |
| Cable Access                 | 3 1-inch (2.54 cm) cable entry holes on top, and back of the unit                      |
| Wire Gauge                   | 12 AWG (2.05 mm) max. to 24 AWG (0.5 mm) min.  |
| Maximum Single Pipe Length   | 262 ft. (79.9 m) <i>*all designs must be verified within PipeIQ software</i>           |
| Outside Pipe Diameter        | 1.050 inches, IPS (25 mm)  |
| Internal Pipe Diameter       | 0.591 to 0.827 inches (15-21 mm)   |
| Relays                       | 5 form C, 3 AMP, programmable latching or non-latching                                 |
| Diagnostic Specifications    |  |
| Event Log                    | 18,000 events stored   |
| Trend Data Log               | Configurable sampling period 1 minute to 1 day.  |
| Service Log                  | 300 custom user entries  |
| Networking Specifications    |  |
| Communication Network        | Ethernet monitoring, 6 email address alerts, TCP and Serial Modbus                     |
| Network Services             | DHCP, SMTP, HTTP, MODBUS/TCP, AutoIP, NetBIOS-NS, Serial MODBUS                        |
| Ethernet                     | 10/100Mbps, MDI-X  |
| Modbus                       | TCP or Serial RS-485   |
| Email                        | 6 recipients, selectable notifications   |
| Webserver                    | Read Configuration, Live View, Logs  |
| Configuration Specifications |  |
| PipeIQ                       | USB or Ethernet  |
| Modbus                       | Ethernet or RS-485   |



### FAAST XS User Interface Display

The User Interface consists of 3 Alarm levels – Alert, Fire 1, and Fire 2, 10 Particulate levels, 10 Airflow indicators, 4 Fault indicators, LCD.

## Ordering Information

| Part No.    | Description   |
|-------------|---|
| 7100X       | System Sensor Conventional FAAST Fire Alarm Aspiration Sensing Technology |
| Accessories |   |
| Various†    | UL-Approved Pipe and Fittings   |

†Additional accessory information, including part numbers, can be accessed at [systemsensor.com/faast](http://systemsensor.com/faast)



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