

FAAST™ Fire Alarm Aspiration Sensing Technology FAAST XS

Overview

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

Features

- Approved for use in Class A, B and C, according to EN54-20
- Provides Very Early Warning Fire Detection, as precise as 0.00095%/m 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
- 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



Description

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 up to Class A (according to EN54-20), in applications ranging from mission critical to harsh and extreme environments.

An installed FAAST XS device can administrate up to 170 m pipe length 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.

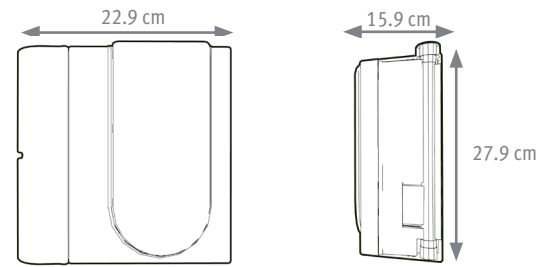
PipeIQ® is FAAST's intuitive design, configuration, and monitoring software. The all-in-one program can be used to create a pipe network tailored to meet site specific requirements, configure a FAAST device, and monitor an installed device - including live trending and reading of historic reports.

A complimentary download of PipeIQ is available at www.faast-detection.com.

Architect/Engineer Specifications

Physical Specification

Height	27.9 cm
Width	22.9 cm
Depth	15.9 cm
Cable Access	2.54 cm cable entry holes on top and back of the unit
Wire Gauge	Minimum 0.5 mm - 2.0 mm maximum
Pipe Length	170 m
Total Hole Numbers	Class A: 16 holes / Class B: 20 holes / Class C: 20 holes (all designs must be verified within PipelQ software)
Outside Pipe Diameter	25 mm
Internal Pipe Diameter	15-21 mm
Relays	5 form C, 3 AMP, programmable latching or non-latching



Operating Specification

Operating Temperature	0°C to 38°C; Factory Tested to 55°C
Sampled Air Temperature	-20°C to 60°C
Humidity	10 to 95% (non-condensing)
Sensitivity Range	0.00095% Obs/m to 20.5% Obs/m
IP Rating	IP30
Coverage Area	Up to 2,000 m ² (please consider regional standards and guidelines)
Air Movement	Max 20 m / s

Diagnostic Specification

Event Log	18,000 events stored
Trend Data Log	configurable sampling period 1 minute to 1 day
Service Log	300 customer user entries

Networking Specification

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	10/100 Mbps, MDI-X
Modbus	TCP or Serial RS-485
Email	6 recipients, selectable notifications
Webserver	Read Configuration, Live View, Logs

Electrical Specification

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

Configuration Specification

PipelQ	USB or Ethernet
Modbus	Ethernet or RS-485

Ordering Information

7100XE : FAAST XS Conventional
Various accessories available upon request



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.

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Installation information: In order to ensure full functionality, refer to the installation instructions as supplied.

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