

FAAST XS (Model 7100XE)

FAAST™ 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.

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 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.



Agency Listings (pending). Pending

PipelQ® 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.

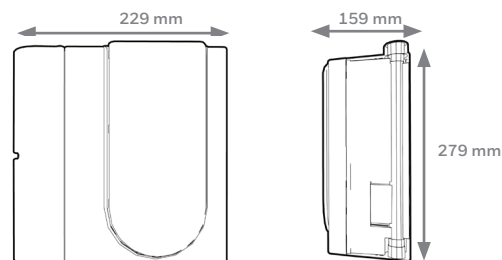
FEATURES

- 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

Technical Specification

| PHYSICAL SPECIFICATION | |
|--------------------------|---|
| DIMENSIONS (W X H X D) | 229 mm x 279 mm x 159 mm |
| CABLE ACCESS | 2.54 cm cable entry holes on top and back of the unit |
| WIRE GAUGE | 0.5 mm ... 2.0 mm |
| TOTAL PIPE LENGTH | 170 m (all designs must be verified within PipelQ software) |
| 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 ... 38°C; Factory Tested to 55°C |
| SAMPLED AIR TEMPERATURE | -20°C ... 60°C |
| HUMIDITY | 10 ... 95% (non-condensing) |
| SENSITIVITY RANGE | 0.00095% Obs/m ... 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/sec. |
| 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 V DC |
| 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 V DC, 0.5 A @ 125 V AC 8 form C, 3 AMP, programmable latching or non-latching |

| CONFIGURATION SPECIFICATION | |
|-----------------------------|--------------------|
| PIPEIQ | USB or Ethernet |
| MODBUS | Ethernet or RS-485 |
| CONFIGURATION SPECIFICATION | |
| 7100XE : FAAST XS | |



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.

For more information

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

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