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 relays.

CE · SIGNALING · UL LISTED S911 · FM APPROVED · ULC · VdS

Agency Listings (pending).   Pending

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.

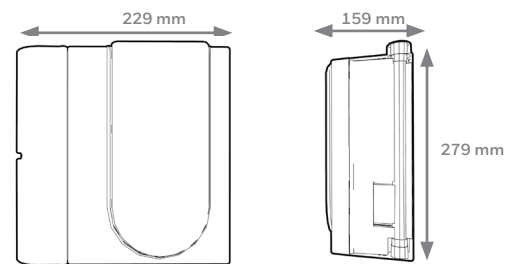A complimentary download of PipeIQ is available at www.faast-detection.com.

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

FAAST XS (Model 7100XE) Product Specifications

PHYSICAL SPECIFICATION	
HEIGHT	279 mm
WIDTH	229 mm
DEPTH	159 mm
WEIGHT	4 Kg
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
TOTAL PIPE LENGTH	170 m (all designs must be verified within PipeIQ software)
TOTAL HOLE NUMBERS	Class A: 16 holes / Class B: 20 holes / Class C: 20 holes (all designs must be verified within PipeIQ software)
OUTSIDE PIPE DIAMETER	25 mm
INTERNAL PIPE DIAMETER	15-21 mm
RELAYS	5 changeover , programmable latching or non-latching Alert, Fire (2), Fault, Isolated

OPERATING SPECIFICATION	
OPERATING TEMPERATURE	0ºC to 38ºC; Factory Tested to 55ºC
SAMPLED AIR TEMPERATURE	-20ºC to 60ºC
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 m2 (please consider regional standards and guidelines)
AIR MOVEMENT	0-1,219m/min

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

INTERFACE SPECIFICATION	
PIPEIQ	USB or Ethernet
MODBUS	Ethernet or RS-485

ORDERING INFORMATION	
PART NO	7100XE
DESCRIPTION	FAAST XS HIGH SENSITIVITY LASER
ACCESSORIES †	Various accessories are available upon request

† Additional accessory information, including part numbers, can be accessed at systemsensor.com/faast

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.

Honeywell