

INTELLIGENT FAAST XT

DESCRIPTION

The Fike Intelligent FAAST XT, P/N 68-302, 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 XT 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.

The FAAST detector is fully integrated into Fike's family of intelligent fire alarm and releasing control systems and reports just like other Fike devices.

Current status of the detector can be displayed in various ways:

- Displayed at Fike's alarm control systems
- Integral display at the detector
- Internet via ethernet port using various devices (computer, iPad, etc)
- Integration with Precise® Vision event management software

The FAAST detector is compatible with Fike's Cheetah® Xi 50, Cheetah Xi 1016, CyberCat® 50, CyberCat 254, and CyberCat 1016 control panels with firmware version 6.10 and higher. Its operating parameters and configuration are completed by the panels C-Linx® programming software. The on-board intelligence allows each FAAST detector to communicate its current status directly to other devices connected to the panel. The digital communication between the detector and host control panel provides fast response and reliable communication.

To enable a full detection strategy, FAAST combines its advanced communications capabilities with an extensive range of customizable settings. The detector provides 5 configurable set point 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 enable technicians to preset alarm thresholds based on routine changes in the environment.

PipeIQ® is FAAST XT'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 XT 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.

FEATURES

- Provides Very Early Warning Fire Detection, as precise as 0.00046%/ft obscuration
- Five 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 for each pipe inlet and chamber airflow monitoring for precise system health information
- A single device covers up to 28,800 square feet
- 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-replacable 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

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 - 465mA, 11.2W; Fan Med - 340mA, 8.2W; Fan Low - 220mA, 5.3W



APPROVALS:

- UL
- ULC
- FM Approved



Alarm Current: Fan High - 493mA, 11.85W; Fan Med - 368mA, 8.85W;
 Fan Low - 248mA, 6W
 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 133°F (55°C)
 Sampled Air Temperature: -4°F (-20°C) to 140°F (60°C)
 Humidity Range: 10 to 95% (non-condensing)
 Sensitivity Range: 0.00046% Obs/ft to 6.25% Obs/ft (0.0015% Obs/m to 20.5% Obs/m)
 IP Rating: IP30
 Coverage Area: 28,800 sq.ft. (2,676 sq.m)
 Air Movement: 0-4,000 ft./min. (0-1,219 m/min.)

Physical Specifications

Height: 13.3 in (338 mm)
 Width: 13.1 in (333 mm)
 Depth: 7.5 in (191 mm)
 Cable Access: 4 1-inch (2.54 cm) cable entry holes on top, bottom, and back of the unit.
 Wire Gauge: 12 AWG (2.05 mm) max. to 24 AWG (0.5 mm) min.
 Maximum Single Pipe Length: 400 ft. (123 m)
 Total Pipe Length: 1050 ft. (320 m)
 Network Outside Pipe Diameter: 1.050 inches, IPS (25 mm)
 Internal Pipe Diameter: 0.591 to 0.827 inches (15-21 mm)
 Relays: 8 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 mod bus
 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 XT 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.

ORDERING INFORMATION

Fike P/N	Mfg. Model	Description
68-302		FAAST XT Intelligent Detector
68-127	F-A3384-000	Air Filter
68-129	P-PIPE-210	CPVC Pipe: 14 lengths of 15 foot pipe (210 ft)
68-130	P-COUPLING	Coupling (15 per pkg)
68-131	P-ELB-45	45° Elbow (10 per pkg)
68-132	P-ELB-90	90° Elbow (20 per pkg)
68-133	P-ENDCAP	End Cap (25 per pkg)
68-134	P-TEE	Tee (15 per pkg)
68-135	P-UNION	Union (10 per pkg)
68-136	P-LABEL-T	Pipe Label (100 per roll)
68-137	P-LABEL-P	Sampling Point Labels (100 per roll)
68-138	P-SAMP-KT	Sampling Point Kit* (10 sets)
40-002	AL300ULXJ	2.5 Amp Power Supply
40-001	AL300ULMR	2.5 Amp Multi-output Power Supply
10-2154-R		33 Amp AH Red Battery Enclosure
10-2190-2		Battery Assembly, 17AH with Wiring Assembly (2 Batteries)
10-2192		Wiring Assembly for 7.2AH and 18AH Batteries (Wire Only)
02-2820		Battery 12V, 18AH (Requires 2 each)
02-3468		Battery Enclosure, 33AH, Red, No Batteries

** Sampling Point Kit, P-SAMP-KT, includes 10 sets of the following components: 3/4" x 3/4" x 1/2" MNPT CPVC Tee fitting, 3/8" to 1/2" MNPT Fitting, 14 feet of flexible capillary tubing (3/8" x 1/4") and Sample point fitting with 1/16" pre-drilled hole and label which states "Air Sampling Point"*