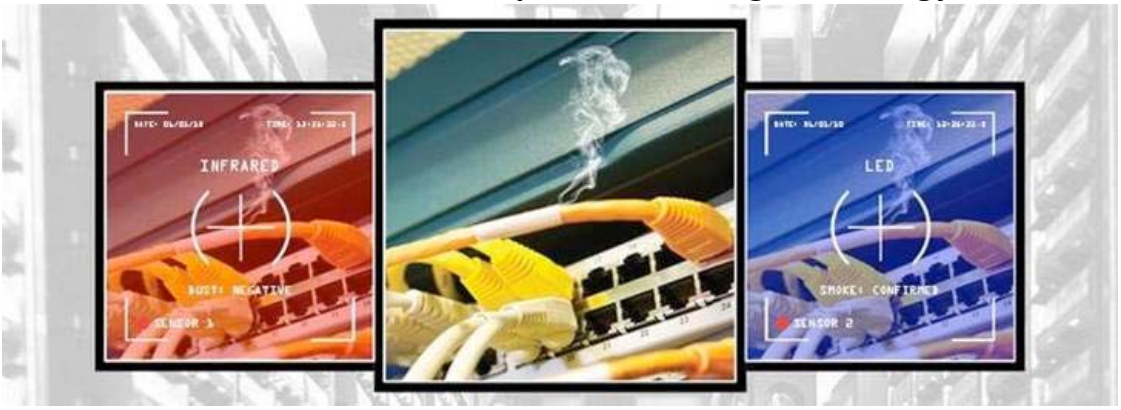
FAAST™ Fire Alarm Aspiration Sensing Technology



Why FAAST?

1. Business Protection

Earliest Warning: Over 30-60 minutes before combustion

- Unsurpassed sensitivity: .00046%/ft (.0015%/m) obscuration capability
- Ensures rapid response: Listed for Early Warning Fire Detection (EWFD) and Very Early Warning Fire Detection (VEWFD)

Provides the earliest detection and warning of smoke-related risk

Multi-source optical smoke detection improves detection decision-making

- Blue LED covers the widest ranges of fires
- Infrared laser detects dust
- Advanced algorithms discriminate dust from smoke

Dual smoke detection source offers unprecedented smoke sensitivity while improving false alarm immunity

Deploy a full detection strategy

- 5 programmable alarm levels: The most available
  - 5 alarm levels can be programmed for latching or non-latching as well as a 0 to 60 second delay to best accommodate the specific code or environment – other detectors only offer 4 alarm levels

Ensures that only proper and necessary preventative activities are carried out to mitigate any risk

System Sensor
3825 Ohio Avenue
St. Charles, Illinois 60174
Telephone: 630-377-6580
Fax: 630-377-6495
www.systemsensor.com

- Exclusive Acclimate mode automatically adjusts within your specified parameters to reduce nuisance alarms and adjust to current conditions
    - Adapts to environment in 24 hours NOT 15 days like competitive products

Reduces installation cycle time and ensures that system is operational and protecting assets quickly

- E-mail notification

Event notifications reach responsible individuals in real time around the globe

2. No Business Disruption

Dual light source generates data for algorithms to discriminate particulate types, reducing false alarms – exclusive to FAAST

- Infrared high-powered laser source
- Particles analyzed within chamber to reject dust

67% better false alarm immunity to dust than the leading brand as tested by a third-party laboratory

Multi-stage filtering to prevent dust and nuisance alarms

- Patented particle separator
- Replaceable filter
- Electronic nuisance rejection through algorithms

Two-stage filtering further ensures that the detection sources are only discriminating against potential smoke-like particles

Full fault monitoring – with major and minor fault signaling

Provides discrete fault data to enable preventative action

E-mail notification

System events can be proactively addressed prior to unnecessary business disruptions

3. Reliability and Peace of Mind

Comprehensive, simple, and intuitive display on the user interface provides real-time, quick-read information at the device

- Alarm levels (5)
- Particulate levels (10)
- Air flow pendulum levels (10)
- Power
- Faults – low flow, configuration, sensor, external monitor, time, communication, aspirator, filter, isolate, high flow, low voltage

- Test, reset, isolate buttons

Ensures that you can identify detector status quickly whether you're on site or remote

Unique airflow pendulum provides confirmation that the pipe network is fully functioning and balanced – unique to FAAST

Dual flow detection to ensure continuous detection

- Ultrasonic sensors for pipe breakage or blockage
- Electronic sensing for flow through filter and detection chamber
- Only product with both for continuous detection and monitoring

End-to-end verification that pipe network and device are properly sampling air of protected space

E-mail alerts 24/7

Remote monitoring

Save time communicating with site personnel by allowing remote monitoring via Pipe IQ or Internet

No fan adjustment needed – the system auto-adjusts to balance airflow

Provides quick, easy installation and eliminates technical support to determine proper fan setting (eliminates the need to be an HVAC or airflow expert)

4. Reduced Lifetime Cost of Ownership

No hidden costs with add-on accessories – No extra charges for displays, relays, or programmer that could add significant costs to the project

FAAST ships with all necessary device components and software for simple installation and configuration

Device flexibility reduces the number of SKUs required to inventory and adds flexibility at the job site

- One device can accommodate pipe from either the top or bottom orientation – no need to install the device upside down like competitive products
- Language changes can be made by changing the front card on the device and using the language appropriate PipeIQ software to update the web server software

Simplify installations with FAAST product that can adapt to meet site-specific requirements

Large coverage area with a single chamber device: 8,000 sq. ft. (800 m^2)

- *VLC* 8,000 sq. ft. (800 m^2)

- *VLF 500* 5,000 sq. ft. (500 m^2)
- *AirSense/Kidde Stratos-HSSD 2* 5,000 sq. ft. (500 m^2)

Broad coverage with a single device reduces the need for multiple detectors

For Very Early Warning: the pipe network specified to accommodate a maximum single pipe length of 262 ft. (80 m) with a market leading maximum 40 air inlet holes

Retrofit installations with existing pipe networks are possible, eliminating the expense of starting over with new pipe

Particle separator removes larger contaminates before they enter the detection chamber, extending the life of the device

Reduces the load on the replaceable filter, reducing maintenance time and labor

Only 1 filter easily changes out through the front panel door – changes required only every 4 years, twice as long as the market leader

One fan with a >7 year fan life versus 5 year life of leading brand

Reduce future maintenance costs with long-life components

5. Integrated Communication Advantage

Onboard Ethernet connection provides local networking capability

Onboard Ethernet connection allows you to monitor your system from almost any location worldwide via the Internet

E-mail notification from the device of a specific alarm level, fault level, or isolate condition can be sent to up to six e-mail addresses

Guarantees that all user-defined personnel are properly notified of detector events, saving time and money in communication efforts

PipeIQ software can configure, design pipe layouts and monitor the system

Provides system configuration and monitoring within a single, easy-to-use software application

8 form C relays communicate alarm levels, urgent and minor faults, and isolate; uses 3 AMP programmable relays for latching and non-latching – the device controls the relays

Ensures that necessary actions are automatically initiated at user-defined thresholds

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