FAAST LT Intelligent Aspirating Smoke Detector

FAAST LT intelligent aspirating smoke detectors deliver Early Warning Fire Detection over an analogue addressable loop to a fire alarm panel for maximum protection in diverse environments.

Product Overview:

The **FAAST LT Intelligent Aspirating Smoke Detector** is designed with the installer and end user in mind. The air-sampling system continuously draws air from the controlled environment into the detector chamber via the sampling pipe. The detection system serves the wide variety of Class C applications where maintenance is difficult, other smoke detection methods are inappropriate or prone to fail due to harsh environments or areas where aesthetics matters. It is also suitable for small mission-critical applications where Very Early Warning – Class A or B – detection is required.

FAAST LT Intelligent Aspirating Smoke Detector

FAAST LT combines proven aspiration detection technologies to deliver reliable smoke detection and efficient installation and maintenance. The device includes high sensitivity optical fire detection, ultrasonic flow sensors, and internal design features to protect vulnerable components from environmental and human threats. The device is quick to install and easy to commission thanks to PipeIQ®* pipe design and configuration software which is provided as standard.

FAAST LT analogue addressable detectors are available as single channel or dual channel devices. A FAAST LT will report alarm states to the fire alarm panel as a LASER detector. It will report fault states as a MODULE.

The detector provides alarm and fault relays with auxiliary events relay as an option. These can be set as latched or non-latched.

Alll three FAAST LT models are System Sensor CLIP loop protocol devices and are fully compatible with Pertronic CLIP loop protocol fire alarm control panels (F220, F120A and F100A), the Pertronic network system, and the Pertronic FireMap™ Graphics system.

Features:

- FL2011EI: Single channel, single detector model
- FL2012EI: Single channel, dual detector model for ‘double knock’ and special configurations
- FL2022EI: Dual channel, dual detector model for dual zones
- IP65 enclosure
- Draws air through a network of sampling pipes
- Ultrasonic airflow sensing
- Day/Night/Weekend mode enables pre-set thresholds based on routine changes in the environment’s usage
- Multiple event logging up to 2240 events
- PipeIQ® * software provides intuitive system layout and configuration in one package
- User friendly air-flow pendulum graph for verification of pipe network functionality
- Electronics protected from air flow and accidental damage during installation or maintenance
- Easily replaceable and reusable filter without affecting the rest of the devices
- Designed for efficient wiring and installation: cable gland holes, easy access to the wiring area and no special tools required
- Easy access to parts requiring routine maintenance: filter(s) or sensors(s)

Specifications:

- » Smoke Sensor — Optical high-sensitivity point type
- » Sensitivity Range — 0.06 % obs/m – 6 % obscuration/m
- » Air Inlets — Two per channel
- » Maximum Coverage Area — 1000 m² (single channel) †
  2000 m² (dual channel) †
- » Single Pipe Length — Up to 100 m (Indicative, on each channel) †‡
- » Aggregate Pipe Length — Up to 160 m (Indicative, on each channel) †
- » Maximum Air Inlet Holes — 18 holes per channel †
- » Pipe Outside Diameter — 25 mm
- » Pipe Internal Diameter — 21 mm
- » Flow Monitoring and Reporting — High Flow and Low Flow according to AS7240-20
- » Filtration — Replaceable filter
- » Fan Control — Ten programmable speeds
- » SLC Loop Protocol — System Sensor CLIP
- » SLC Loop Voltage — 15 VDC – 29 VDC
- » SLC Loop Standby Current — 900 µA max. @ 24 VDC (poll once every 5 s)
- » External Supply Voltage — 18.5 VDC – 31.5 VDC
- » Operating Current (fan speed dependant, excluding sounders)
  1 Channel: — 62 mA (Min), 145 mA (Typical), 229 mA (Max) @ 24 VDC
  2 Channel: — 65 mA (Min), 211 mA (Typical), 390 mA (Max) @ 24 VDC
- » Interface Terminal Blocks — Power Supply, Relays, Sounder Outputs, External Input; Loop Connection, USB port; Buttons (Test, Reset, Disable)
- » Relays — Two (1 Alarm, 1 Fault) per channel
- » Relay Contact Ratings — 2.0 A @ 30 VDC, 0.5 A @ 30 VAC
- » Sounder Outputs — One per channel
- » USB Standard — USB cable for Type B USB connection
- » Event Log — 2244 events
- » Cable Access — Knock out cable gland holes, 11 x 20 mm Ø
- » Wire Size — 0.5 mm² min. to 2 mm² max.
- » Operating Temperature — -10 °C to 55 °C
- » Humidity — 10 % to 93 % RH, non condensing
- » Ingress Protection — IP65
- » Dimensions — 403 mm x 356 mm x 135 mm H x W x D
- » Shipping Weight — 6.5 kg (dual channel, including packaging)
- » Listings and Approvals — ActivFire: AFP – 2989

Ordering Information:

Product Code	Description
FL2011EI	FAAST LT AA Loop Based Single Channel Detector (1,000 m²)
FL2012EI	FAAST LT AA Loop Based Single Channel Dual Detector (1,000 m²)
FL2022EI	FAAST LT AA Loop Based Dual Channel Dual Detector (2,000 m²)
FAAST-FILTERLT	FAAST LT Integral Filter, 6 Pack

* PipeIQ® can be downloaded from www.pertronic.com.au

† Indicative maximum pipe lengths for standard fire detection (SFD) to UL Standards. Designs to AS1670 or NZS4512 may allow longer pipe lengths. Designs for Early Warming Fire Detection (EWFD) and Very Early Warming Fire Detection (VEWFD) may require shorter pipe lengths. All sampling pipe system designs must be verified using PipeIQ.

‡ Single pipe length: The length of pipe in a single branch system.

FAAST Fire Alarm Aspiration Sensing Technology® is a trademark of System Sensor, 3825 Ohio Avenue, St. Charles, IL.