



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 combines proven aspiration detection technologies to deliver reliable smoke detection and efficient installation and maintenance. The device includes high sensitivity laser 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 **PipelQ[®]** 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.

All three models are fully compatible with the Pertronic F100A fire alarm control panel, the F120A fire alarm control panel, the Pertronic network system and **Pertronic FireMap[™]** Graphics System.



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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
- » PipelQ[®] * 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 laser point type
» Sensitivity Range	0.06 % obs/m – 6 % obscuration/m
» Air Inlets	Two per channel
» Maximum Coverage Area	1000 m ² (single channel) † 2000 m ² (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
» 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
» Sounder Outputs	One per channel
» Relay Contact Ratings	2.0 A @ 30 VDC, 0.5 A @ 30 VAC
» Loop Voltage	15 VDC – 29 VDC
» Loop Standby Current	900 µA max. @ 24 VDC (poll once every 5 s)
» 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 mm ² min. to 2 mm ² 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 m ²)
FL2012EI	FAAST LT AA Loop Based Single Channel Dual Detector (1,000 m ²)
FL2022EI	FAAST LT AA Loop Based Dual Channel Dual Detector (2,000 m ²)
FAAST-FILTERLT	FAAST LT Integral Filter, 6 Pack

* PipelQ® 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 Warning Fire Detection (EWFD) and Very Early Warning Fire Detection (VEWFD) may require shorter pipe lengths. All sampling pipe system designs must be verified using PipelQ.

‡ 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.