



# FAAST LT Conventional Aspirating Smoke Detector

*FAAST LT aspirating smoke detectors deliver Early Warning Fire Detection and extensive communication capabilities to provide maximum protection in diverse environments.*

## Product Overview:

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The **FAAST LT Conventional 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 matter. 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 PipeIQ<sup>®</sup> pipe design and configuration software which is provided as standard.

FAAST LT conventional devices are available as single channel or dual channel devices, offering flexibility for different detection strategies.

The detector provides alarm, pre-alarm and fault relays and optional auxiliary events relay. Relays may be configured as latched or non-latched.



**FAAST LT Conventional Aspirating Smoke Detector**

## Features:

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- » FL0111E: Single channel, single detector model
- » FL0112E: Single channel, dual detector model for 'double knock' applications
- » FL0122E: Dual channel, dual detector model for dual zones
- » IP65 enclosure
- » Draws air through a network of sampling pipes
- » Ultrasonic airflow sensing
- » Configurable sensitivity - 9 levels from 0.06 %Obs/m to 6 %Obs/m
- » Programmable alarm thresholds, flow and fault delays
- » 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<sup>®</sup> 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 device
- » 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:

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» Smoke Sensor	Optical laser point type
» Sensitivity Range	0.06 % obs/m – 6 % obscuration/m
» Air Inlets	Two per channel
» Maximum Coverage Area	1,000 m <sup>2</sup> (single channel) † 2,000 m <sup>2</sup> (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
» Outside Pipe Diameter	25 mm
» Internal Pipe 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), 299 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; USB port; Buttons (Test, Reset, Disable)
» Relays	Three per channel (1 Alarm, 1 Pre-alarm, 1 Fault)
» Sounder Outputs	One per channel
» Relay Contact Ratings	2.0 A @ 30 VDC, 0.5 A @ 30 VAC
» USB Standard	USB cable for Type B USB connection
» Event Log	2,244 events
» Cable Access	Knock out cable gland holes, 11 x 20 mm Ø
» Wire Size	0.5 mm <sup>2</sup> min. to 2 mm <sup>2</sup> max.
» Operating Temperature	-10 °C to 55 °C
» Humidity Range	10 % to 93 % (non condensing)
» IP Rating	IP65
» Dimensions	403 x 356 x 135 mm      H x W x D mm
» Shipping Weight	6.5 Kg (dual channel, including packaging)

## Listings and Approvals:

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ActivFire: AFP - 2988

## Ordering Information:

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Product Code	Description
FL0111E	FAAST LT Stand Alone Single Channel Detector (1,000 m <sup>2</sup> )
FL0112E	FAAST LT Stand Alone Single Channel Dual Detector (1,000 m <sup>2</sup> )
FL0122E	FAAST LT Stand Alone Dual Channel Dual Detector (2,000 m <sup>2</sup> )
FAAST-FILTERLT	FAAST LT Integral Filter, 6 Pack

\* PipelQ® can be downloaded from [www.pertronic.com.au](http://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.