FAAST LT

SYSTEM SENSOR®

The world's finest manufacturing facility

System Sensor's European products are researched, designed and manufactured at our 10,000m^2 state-of-the-art facility in Trieste, Italy. Quite simply, it's the best of its kind. Advanced technology and manufacturing processes coupled with dedicated staff ensure precision manufacturing and incomparable quality control. And 100% testing ensures that nothing leaves our doors unless it's in perfect working order and capable of providing years of trouble-free protection.

We complement this unique offering with a global network of fire systems integration and distribution partners who serve end-users, consulting engineers and specifiers in more than forty countries. All share in our business expertise and, of course, our passion for perfection.

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Installation information: in order to ensure full functionality, refer to the installation instructions as supplied.

Fire protection for the toughest applications

Beyond standard methods of detection

FAAST LT delivers a flexible solution for applications where standard detection methods are prone to failure or false alarm. Designed with the installer and end user in mind, the device serves a wide variety of EN54-20 Class C applications where maintenance is difficult, other smoke detection methods are inappropriate, due to harsh environments, or areas where aesthetics matters.

Loop based FAAST LT detectors offer ultimate flexibility in terms of connectivity with the overall fire system and the stand alone FAAST LT serves remote applications where stand alone detectors are needed. The device is fast to install, easy to configure and includes installation and commissioning software PipeIQ LT.

FAAST LT Applications

FAAST LT's main focus is applications where standard detection is not appropriate due to harsh environments, difficult access, tamper proof or complex spaces.

Great Indoors
FAAST LT is a reliable and flexible solution for large public areas like shopping centres, airports, or stadiums where evacuations are complex. It is also ideal for warehouses where access and maintenance is difficult and standard detection is not appropriate. The device allows access to these areas, reducing the cost of maintenance. FAAST LT also provides an alternative to beam detection where smoke stratification may occur.

Restricted Access
For areas such as prisons and public spaces where devices can be tampered with, FAAST LT can be installed outside of the protected area while air sampling points are located discreetly within.

Extreme Environments
FAAST LT is suitable for areas such as cold storage facilities or spaces with high-airflow, and environmental conditions outside the tolerance of typical fire detection technologies. The device can be installed in a temperate, easy-to-access location while sampling points are in the extreme environment.

Discrete Detection
When aesthetics matter, such as in museums, churches or mansions, FAAST LT provides a flexible, discrete smoke detection solution that is nearly invisible to the public. At the same time, it provides early smoke detection giving more time to protect high-value items from fire.

Mission Critical *
For environments such as small server rooms, where only a couple of detection points are required and the loss of downtime is extremely important, FAAST is the ideal solution. It provides early smoke detection to help facilities stay up and running 24/7 and prevents unnecessary activation of suppression systems.

* For larger mission critical applications consider using our FAAST product.

FAAST LT Delivers

Quick Set-Up

PipeIQ™ LT the all-in-one system design and configuration software, guides you through initial pipe layout and system configuration. Once the system is installed, it enables ongoing configuration and system monitoring via a USB connection. The PipeIQ™ LT software is included with FAAST LT.

Technology for the Toughest Applications

FAAST LT combines proven aspiration detection technologies and technical design excellence to deliver reliable smoke detection for the toughest environments. The device includes high sensitivity laser detectors, ultrasonic flow sensors, protected electronics and fully independent chambers to enable the device to reach the highest sensitivity required for Class C applications, up to 2000m^2 and Class A applications up to 150m^2.

Ease of Installation and Maintenance

FAAST LT is designed for efficient installation and maintenance. You do not have to worry about additional items such as brackets, relays or local language interfaces since all of this is provided with the unit as standard. Sensors and filters are easily accessible for routine maintenance and an intuitive fault pendulum display allows rapid problem identification and solving.

Seamless Integration

Intelligent FAAST LT devices provide Class A, B and C fire detection with seamless panel integration. No additional hardware is required to wire an intelligent FAAST LT detector to a new or pre-existing communications loop. The device communicates directly with the fire alarm control panel via CLIP or Advanced Protocol.
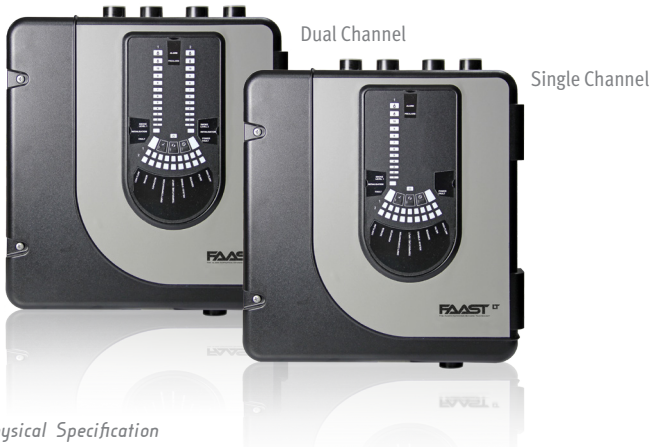
Features

- Available as stand alone or loop based devices
- For different detection strategies choose from single, dual channel or double knock detectors
- A single device protects up to 2000m^2
- High sensitivity laser optics
- Microprocessor controlled laser based optics delivering highest stability
- Ultrasonic flow detection for pipe flow measurement
- PipeIQ™ LT software provides intuitive system layout and configuration, all in one package
- Fault indictors provide a broad spectrum of events
- Dual channel units have two completely independent chambers with individual fans, filters, sensors and monitors
- Unique air flow pendulum graph verifies pipe network functionality
- USB interface
- IP65 rating
- Efficient maintenance - filters and optics
- Interface in 12 languages

The Aspirating Detection System

The FAAST LT solution for aspiration detection.

Dual Channel

Single Channel

Physical Specification

Height	40.3cm (including inlets and outlets)
Width	35.6cm
Depth	13.5cm
Maximum Single Pipe Length	100m
Maximum Total Branched Pipe Length	160m (per channel)
Maximum Air Inlet Holes	18 (per channel)
Coverage Area	up to 2000m^2
Sensitivity	0.07% obs/m
Sounder outputs	1 per channel
Interfaces	Terminal blocks: power supply, relays, sounder outputs, external input; USB port; buttons (test, reset, disable)
USB	Standard USB cable for Type B USB connection
Filtration	Replaceable filter
Fan control	10 programmable speeds

Electrical Specifications

Smoke Sensor (s)	Optical laser point type
External Supply Voltage	18.5-31.5 V
Remote Reset Time	2s
Power Reset	0.5s
Avg. Operating Current	
1 Channel Device	170mA @ 24 VDC (excluding sounders)
2 Channel Device	270mA @ 24 VDC (excluding sounders)
Max. Average Operating Current	
1 Channel Device	360mA @ 24 VDC (excluding sounders)
1 Channel Device	570mA @ 24 VDC (excluding sounders)
Relay Contact Ratings	2.0 A @ 30 VDC, 0.5 A @ 30 VAC

Electrical Specifications - Loop Version only

Communication Loop Supply Voltage	15 – 29 VDC (Loop current ≤ 900mA)
Communication Loop Standby Current	@ 24V: 900 µA max. (poll once every 5s)

Environmental Specifications

Operating Temperature	-10°C to 55°C
Humidity Range	10% to 93% (non condensing)
IP Rating	65

Product Variants

FL0111E	Stand Alone	1 Channel 1 Detector
FL0112E	Stand Alone	1 Channel 2 Detector
FL0122E	Stand Alone	2 Channel
FL2011EI	Loop Based	1 Channel 1 Detector
FL2012EI	Loop Based	1 Channel 2 Detector
FL2022EI	Loop Based	2 Channel