NOTIFIER®
by Honeywell

FAAST™ LT 200 Loop Based Aspirating System

Fire Alarm Aspiration Sensing Technology

Data Sheet



The FAAST LT-200 Aspirating Smoke Detector is designed with the installer and end user in mind. It 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 smaller mission critical applications where very early warning - Class A or B detection is required.

FAAST LT-200 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 fast to install and easy to commission thanks to PIPE IQ LT pipe design and configuration software which is included as standard.

FAAST LT-200 loop based devices are available as single channel and dual channel devices, offering flexibility for different detection strategies. A range of customisable settings are geared towards maximising device performance and meeting different application needs. Loop capability allows standard device integration, maintenance and support consistent with other Notifier Opal devices.

Features

- High sensitivity LED Detection Chamber specially designed to cover Class C. Includes a high power output IR LED and high gain IR receiver amplifier
- Single & Dual channel versions with independent channels including fan, sensor and flow monitoring
- Supports CLIP and Opal protocol
- Provides pre-alarm functionality for graduated alarm thresholds
- Ultrasonic airflow sensing with expanded monitoring range
- A single device covers up to 2000m^2
- Pipe-IQ™ software provides intuitive system layout and configuration all in one package
- Multiple event logging up to 2244 events
- User friendly air flow pendulum graph for verification of pipe network functionality
- Easily replaceable and reusable filter without affecting the rest of the device
- Protected electronics from air flow and accidental damage during installation or maintenance
- 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) and sensor(s).
- IP65 enclosure

This document is not intended to be used for installation purposes. Every care has been taken in the preparation of this document but no liability can be accepted for the use of the information therein. Design features may be changed or amended without prior notice.
For more information, contact:
NOTIFIER. 140 Waterside Road, Hamilton Industrial Park, Leicester, LE5 1TN UK
Phone: +44 (0) 203 409 1779

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FAAST™ LT-200

FAAST LT-200 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-200 detectors offer ultimate flexibility in terms of connectivity with the overall fire system. The device is fast to install, easy to configure and includes installation and commissioning software PipeIQ LT.

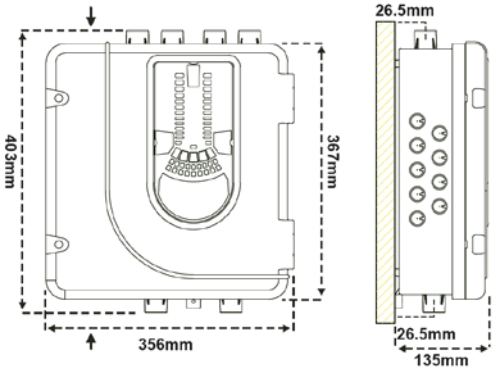


Specifications

FAAST™ LT-200 NFXI-ASD11-HS-EB, NFXI-ASD12-HS-EB, NFXI-ASD22-HS-EB

Mechanical Specification

Height	403 mm (including inlets & outlets)
Width	356 mm
Depth	135 mm
Cable Access	3 x M20 gland holes pre-drilled on top and bottom
Wire Gauge	0.5mm² to 2 mm²
Maximum Single Pipe Length	100 m
Maximum Total Branched Pipe Length	160 m (per channel)
Maximum Air Inlet Holes	18 holes (per channel)
Outside Pipe Diameter	25 mm or 27 mm
Internal Pipe Diameter	15-21 mm
Sensitivity Range (obscuration)	0.07 - 0.66 % obs/m (Alarm Level 1-5)
Relays	2 (1 Alarm, 1 Fault) x per channel
Sounder Outputs	1 per channel
Event Log	2244 events
Interfaces	Terminal blocks: power supply, relays, sounder outputs, external input; Loop Connection, USB port; Buttons (Test, Reset, Disable)
Power supply & relays connections	2mm² max
USB	Standard USB cable for Type B USB Connection
Shipping Weight	6.5kg (dual channel) includes packaging
Flow monitoring and reporting	High & low according to EN54-20
Filtration	Replaceable filter
Fan control	10 programmable speeds



Electrical Specification

Smoke Sensor(s)	High sensitivity LED Detection
External Supply Voltage	18.5 - 31.5 VDC
Remote Reset Time	2 seconds
Power Reset	0.5 seconds
Operating Current (excluding sounders)	
1 Channel Device	170mA @ 24 VDC
2 Channel Device	270mA @ 24 VDC
Max. Alarm Current (excluding sounders)	
1 Channel Device	360mA @ 24 VDC
2 Channel Device	570mA @ 24 VDC
Relay Contact Ratings	2.0 A @ 30 VDC, 0.5 A @ 30 VAC
Communication	
Loop Supply Voltage	15-29 VDC (Loop current ≤ 900mA)
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	IP65

Listings and Approvals

LPCB	
EN54-20 (holes per channel)	Class A – 3 holes Class B – 6 holes Class C - 18 holes

User Interface Display

The front panel will be different depending on which of the 3 models is being installed. The following display information is possible:

- Alarm level; Alarm, Pre-Alarm
- Particulate Levels; 1-5
- Fault Status
- Flow Level
- Test, Reset and Disable Buttons

Product Range at a Glance

FAAST LT-200 Loop Connected Aspirating Systems		Part Number
	Single channel FAAST LT-200 aspirating unit with Earth Bar.	NFXI-ASD11-HS-EB
	Single channel dual detector (double knock) FAAST LT-200 aspirating unit with Earth Bar.	NFXI-ASD12-HS-EB
	Dual channel FAAST LT-200 aspirating unit with Earth Bar.	NFXI-ASD22-HS-EB

FAAST LT-200 Stand Alone Aspirating Systems		Part Number
	Single channel, single detector FAAST LT-200 aspirating unit with Earth Bar.	FL0111E-HS-EB
	Single channel, dual detector (double knock) FAAST LT-200 aspirating unit with Earth Bar.	FL0112E-HS-EB
	Dual channel, dual detector FAAST LT-200 aspirating unit with Earth Bar.	FL0122E-HS-EB

Accessories	
Earth Bar	F-LT-EB
FAAST LT-200 Integral Filter (6 filters)	F-IF-6
Replacement detector head (NOTIFIER loop connected units)	F-SEN-NFX
Replacement detector head (Stand Alone units)	F-SEN-SSE
FAAST LT SA 1-Ch Accessories Box	FLT-AB-SA1
FAAST LT SA 2-Ch Accessories Box	FLT-AB-SA2
External Pipe Filter	F-INF-25
External Filter replacement filter pack	F-INF-25-RF

For a full range of filters, pipework and accessories please refer to the Aspirating Accessories Brochure

NOTIFIER® by Honeywell
140 Waterside Road
Hamilton Industrial Park
Leicester
LE5 1TN, UK
T: +44 (0) 203 409 1779
E: sales@notifierfiresystems.co.uk
www.notifierfiresystems.co.uk