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.

FAAST LT-200 combines proven aspiration detection technologies to deliver reliable smoke detection and efficient installation and maintenance. The device comprises innovative and intelligent internal design features designed to protect vulnerable components. These include a high sensitivity LED detection chamber (featuring a high power output IR LED and high gain IR receiver amplifier), along with ultrasonic flow sensors. 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

ISO9001
Design, Manufacture and Supply to Quality Management Systems Certified to ISO9001:1994

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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	0.5mm^2 to 2 mm^2
• Maximum Single Pipe Length	90 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	2mm^2 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 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
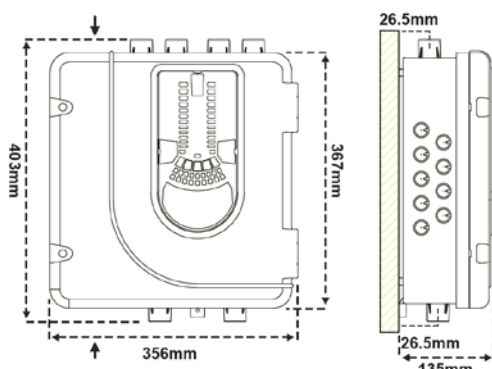
Product Range at a Glance

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

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