

# Single Pipe Air Sampling Detector

## FIRElink-NANO



### Features

- ▶ Ultra small, low cost aspirating smoke detector for easy and discreet installation
- ▶ High sensitivity provided by laser based forward light scatter for reliable early warning
- ▶ Single sampling pipe up to 50 m in length (still air)
- ▶ False alarms reduced by unique laser sensing technology - able to discriminate against dust
- ▶ Easy commissioning without the need for a PC

### Description

FIRElink-NANO is designed to provide reliable sensitivity smoke detection in a small, easy to install package. The unit's perceptive artificial intelligence ensures that it operates at optimum sensitivity for the protected environment, without the need for complex setup. This means the product will configure itself to provide high sensitivity in a small comms room or reduced sensitivity in a smoky area.

Interfacing to Fire panels or BMS systems is via integral Pre-Alarm, Fire and Fault relays. An Hochiki ESP compatible interface card (APIC) is available for addressable systems.

### Specification

Ordering code	FIRElink-NANO		
Supply voltage	21.6 - 26.4 VDC		
Current consumption	350 mA @ 24 VDC		
Operating temperature range	-10 °C to +38 °C (UL268), -10 °C to + 60 °C (CEA4022)		
Operating humidity range	0 - 90% non-condensing		
Measurement Range (%Obs/m)	0.4% to 25%		
Detection Principle	Laser light scattering mass detection and particle evaluation		
Particle Sensitivity Range	0.003 µ to 10 µ		
Dust Discrimination Principle	3D <sup>3</sup> Laser Dust Discrimination (LDD)		
Recommended Sampling Pipe Length	25 m moving air / 50 m still air (max)		
Colour / Case material	Ivory / ACS		
Sampling Pipe Diameter	3/4" nominal bore (27 mm O/D)		
Recommended Number of Sampling Holes(EN54-20 performances)	Class A 2 holes	Class B 6 holes	Class C 10 holes
Alarm Levels	"PRE-ALARM", "FIRE" and "FAULT"		
IP Rating	IP50		
Sampling Pipe Inlets	1		
Exhaust Air Pipe Outlets	1		
Weight (kg) / Length / Width / Depth (mm)	1.2 / 225 / 185 / 105		

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The FIRElink range of sampling pipe, fittings and accessories are designed specifically for use with low pressure/high flow rate aspirating type smoke detection systems.

Our sampling pipe and fittings are manufactured from red ABS (Acrylonitrile Butadiene Styrene). This material was selected because it is easy to install, offers excellent rigidity, chemical resistance, impact strength and weather resistance.

Image	Part No.	Description	Colour
	FL-PIPE	Pipe 0.75 Diameter Nom Bore 3m Length	Red
	FL-SR	Socket	Red
	FL-90BR	90 Degree Bend	Red
	FL-45ER	45 Degree Elbow	Red
	FL-ECR	End Cap	Red
	FL-SUR	Socket Union	Red
	FL-TPR	'T' Piece	Red
	FL-SPA1	Standard Sampling Point Assembly	As Shown
	FL-SPA2	Detachable Sampling Point Assembly	As Shown
	FL-PSPA	Patress Sampling Point Assembly	As Shown
	FL-BSPA	Bulkhead Sampling Point Assembly 20mm	As Shown
	FL90PSP	90 Degree Patress Sampling Point	As Shown
	FL-SG	Socket	Grey
	FL-ECG	End Cap	Grey
	FL-ISPAG	Inline Sample Point Adapter 25mm Grey	Grey
	FL-FSR	0.75 to 25mm Female Socket	Red
	FL-AD2R	25mm Female to 0.75 Male Adapter	Red
	FL-AD1R	0.75 Female to 25mm Male Adapter	Red
	FL-PCR	Pipe Clip	Red
	FL-SC	Solvent Cement for FIRElink Pipe	Clear
	FL-PC	Pipe Cleaner for FIRElink	-
	FL-WL	Sampling Hole Warning Labels	As Shown

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