

# High Sensitivity Air Sampling Smoke Detector *FIRElink-400*



## Features

- ▶ Volt-free Fire-1 and Fault relay outputs are provided for remote monitoring by local fire detection or BMS systems.
- ▶ High sensitivity provided by laser based forward light scatter for reliable early warning
- ▶ Four sampling pipes up to 200m (aggregate) in length (still air)
- ▶ False alarms reduced by unique laser sensing technology - able to discriminate against dust
- ▶ RS485 communications built in as standard for networking and remote communications

## Description

Model FIRElink-400 is designed to provide very high sensitivity smoke detection using an aspirating technique. A unique sensing technology ensures that the detector operates at optimum sensitivity for the protected environment, without the need for complex set-up.

The detector is available in three formats, the standard detector (FIRElink-400), the standard detector plus Command Module (FIRElink-400CM) and a standalone Command Module (FIRElink-CM). The Command Module variants provide a single location display, control and interfacing option for systems of up to 127 detectors and allow global programming of all detector functions simultaneously.

<b>Specification</b>	
Order Codes	FIRElink-400 (Standard Detector)
Supply Voltage	21.6 - 26.4 V dc
Current Consumption	470 mA @ 24 V dc at fan speed 8
Relay Contact Rating	500 mA @ 30 V
Operating Temperature Range	0 to +38 °C (UL268), -10 °C to + 60 °C (CEA4022)
Operating Humidity Range	0 - 90% non-condensing
Measurement Range (obs/m)	0.03% to 25% Full Scale Deflection (FSD)
	0.0015% to 25% Sensitivity Resolution
Detection Principle	Laser light scattering mass detection and particle evaluation
Particle Sensitivity Range	0.003 μ to 10μ
Dust Discrimination Principle	3D <sup>3</sup> Laser Dust Discrimination (LDD)
Maximum Single Sampling Pipe Length / Diameter	100m / ¾" nominal bore (27 mm O/D)
	(EN54-20 performances)
Total Sampling Pipe Maximum	200 m @ 100 sampling holes
Alarm Levels	4 (Aux, Pre-alarm, Fire 1 and Fire 2)
IP Rating	IP50
Sampling Pipe Inlets	4 on top, 4 at rear
Exhaust Air Pipe Outlets	1 on top, 1 at rear
Weight (kg) / Size (mm)	5.2 / H372 x W427 x D95

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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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