

# 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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