

# 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.

Specification	
Order Codes	FIRElink-400 (Standard Detector)
Supply Voltage	21.6V - 26.4Vd.c.
Current Consumption	470mA @ 24V DC at fan speed 8
Relay Contact Rating	500mA @ 30V
Operating Temperature Range	0 to +38°C (UL268), -10 to + 60°C (CEA4022)
Operating Humidity Range	0 - 90% non-condensing
Measurement Range (%Obs/m)	0.0015% to 25%
Detection Principle	Laser light scattering mass detection and particle evaluation
Particle Sensitivity Range	0.003µ to 10µ
Dust Discrimination Principle	3D <sup>3</sup> Laser Dust Discrimination (LDD)
Maximum Single Sampling Pipe Length / Diameter	100m / 3/4" nominal bore (27mm O/D)
Recommended Number of Sampling Holes (EN54-20 performances) Per Inlet	Class A - 2 holes
	Class B - 6 holes
	Class C - 10 holes
Total Sampling Pipe Maximum	200m @ 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