

High Sensitivity Air Sampling Smoke Detector

FIRElink-100



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
- ▶ Two sampling pipes up to 100m (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-100 is designed to provide very high sensitivity smoke detection in a small package. A unique sensing technology ensures that the detector 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 computer room or reduced sensitivity in a smoky area.

The detector is designed to fit into a Docking Station which accepts all sampling pipes and cables leaving the detector to be fitted during the final commissioning phase. This ensures that the detector is less likely to be damaged during installation. Volt-free Fire 1 and Fault relay outputs are provided for remote monitoring by local fire detection or BMS systems.

Specification	
Order Code	FIRElink-100
Supply Voltage	21.6V - 26.4Vd.c.
Current Consumption	400mA @ 24Vd.c.
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)	0.03% to 25%
Detection Principle	Laser light scattering mass detection and particle evaluation
Particle Sensitivity Range	0.003μ to 10μ
Dust Discrimination Principle	3D ³ Laser Dust Discrimination (LDD)
Recommended Sampling Pipe Length	50m moving air / 100m still air (max)
Sampling Pipe Diameter	3/4" nominal bore (27mm O/D)
Recommended Number of Sampling Holes	25 per pipe
Alarm Levels	2 - "FIRE" and "FAULT" (2 additional levels available with optional Relay Card or APIC fitted)
IP Rating	IP50
Sampling Pipe Inlets	2
Exhaust Air Pipe Outlets	1 (on optional Piped Exhaust docking station)
Weight(kg) / Size(mm)	3.8 (with docking station) / H220 x W300 x D85