



FHSD8025-xx

LaserSense 25 High Sensitivity Smoke Detector

Description

LaserSense 25 is designed to provide very high sensitivity smoke detection in a small package.

ClassiFire Perceptive Artificial Intelligence 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. All sampling pipes and cables are connected to the Docking Station as a first fix operation leaving the detector to be fitted during the final commissioning phase if required. This ensures that detectors are less likely to be damaged during the installation.

Upgradable volt-free Fire and Fault relay outputs are available for remote monitoring by local fire detection or BMS systems.

Typical Applications

- Data storage units
- Prison cells
- Plant rooms
- Air conditioning units
- Equipment racks
- Computer rooms
- Air duct protection
- Heritage property protection
- Critical equipment
- Anti-smoking enforcement
- Motor rooms

Options Available

- Addressable Protocol Interface Cards APIC™ available for Ziton protocol
- Command Module available for central monitoring and display
- SenseNet compatible - up to 127 detectors per loop
- Remote Display units available
- Suitable for MatrixScan, a patented software system which provides virtual addressable location detection - e.g. 10 physical detectors would provide up to 45 unique addressable locations.



Standard 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 50m in length (still air)
- Unique ClassiFire® Perceptive Artificial Intelligence system that dynamically adjusts the detector's operating parameters, allowing for day to day changes in the protected environment and dust separation system contamination
- Unwanted alarms from dust are avoided using patented Dual Technology LDD 3D3 Laser Dust Discrimination and elimination system
- RS485 communications built in as standard for networking and remote communications

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Specifications

Supply	
Voltage	21.6 to 26.4 Vdc
Current	250 mA
Environmental	
Operating temperature	-10°C to +60°C (EN54-20)
Relative humidity	0 to 90% RH (non condensing)
IP Rating	IP50
Mechanical	
Size	145mm (W) x 220mm (H) x 85mm (D)
Weight	1.7Kg
Colour	Cream
Material	Sheet steel enclosure
Cable entries	2 x M20
Detection	
Detection principle	Laser light scattering mass detection and particle evaluation
Particle sensitivity range	0.003µ to 10µ
Measurement range (% Obs/m)	0.0015% to 25%
Alarm levels	4 (Aux, Pre-alarm, Alarm and Alarm 2)
Sampling pipework	
Inlets	1
Length	50m maximum run (25m in moving air)
Diameter	27mm OD
Holes	up to 10 holes
Exhaust	1 (optional)
Outputs	
Standard	2 - Alarm (n/o) and Fault (n/c)
Rating	500mA @ 30V
Expansion	Optional input and relay card
User interface	
Indicators	LED

Ordering Information

Part No.	Description
FHSD8025-xx	LaserSense 25 High Sensitivity Smoke Detector
FHSD8511	Input/Ouput expansion card for LaserSense 25/100
FHSD8522	LaserSense Nano/25/100 Dust Filter

