

# FHSD8210-xx

LaserSense HSSD2 High Sensitivity Smoke Detector - Minimum display

## Description

LaserSense HSSD2 is designed to provide very high sensitivity smoke detection, ensuring the very earliest warning of incipient fire with minimum rate of nuisance alarms.

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.

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

- High sensitivity provided by laser based forward light scatter for reliable early warning
- Combined sampling pipe up to 200m 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	450 mA at fan speed 8
Environmental	
Operating temperature	-10°C to +60°C (EN54-20)
Relative humidity	0 to 90% RH (non condensing)
IP Rating	IP50
Mechanical	
Size	427mm (W) x 372mm (H) x 95mm (D)
Weight	5.2Kg
Colour	Cream
Material	Sheet steel enclosure
Cable entries	6 x M20
Detection	
Detection principle	Laser light scattering mass detection and particle evaluation
Particle sensitivity range	0.003 $\mu$ to 10 $\mu$
Measurement range (% Obs/m)	0.0015% to 25%
Alarm levels	4 (Aux, Pre-alarm, Alarm and Alarm 2)
Sampling pipework	
Inlets	4
Length	100m maximum single run (50m in moving air) 200m Combined maximum
Diameter	27mm OD
Holes	up to 100 holes
Exhaust	1 (optional)
Inputs	
Standard	3 - Programmable
Outputs	
Standard	5 - Pre-Alarm, Alarm, Alarm2, Aux Alarm (n/o) and Fault (n/c)
Rating	500mA @ 30V
User interface	
Indicators	LED

### Ordering Information

Part No.	Description
FHSD8210-xx	LaserSense HSSD2 High Sensitivity Smoke Detector - Minimum display version
FHSD8523	

