

# 9-30621

## AirSense Stratos HSSD2 High Sensitivity Smoke Detector

### Description

Stratos 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.



### Details

- 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
- Large area aspirating smoke detector, up to 2000m2 coverage
- CPR, LPCB, VdS, NF, CSIRO, UL & FM approved

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### Technical specifications

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#### General

Status indication	LED and LCD
User interface	Keypad
Alarm levels	4 (Aux, Pre-alarm, Alarm and Alarm 2)

#### Electrical

Operating voltage	21.6 to 26.4 VDC
Current consumption	450 mA at fan speed 8

#### Detection

Detection principle	Laser light scattering mass detection and particle evaluation
Range	0.0015% to 25% (%Obs/m)
Particle sensitivity range	0.003 $\mu$ to 10 $\mu$

#### Sampling pipe

Length	100 m maximum single run (50 m in moving air), 200 m Combined maximum
Inlet quantity	4
Exhaust	1 (optional)

#### Input

Input quantity	3 - Programmable
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#### Output

Output quantity	5 - Pre-Alarm, Alarm, Alarm2, Aux Alarm (n/o) and Fault (n/c)
Output type and rating	500 mA @ 30 V

#### Physical

Physical dimensions	427 x 372 x 95 mm (W x H x D)
Net weight	5.2 kg
Colour	Cream
Mounting type	Wall mount
Cable entries	6 x M20
Material (body)	Polycarbonate
Material	Sheet steel enclosure with plastic front cover

#### Environmental

Operating temperature	-10 to +60°C (EN54-20)
Relative humidity	0 to 90% noncondensing
Environment	Indoor
IP rating	IP40

#### Regulatory

Certification	EN54-20, FM, UL
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#### Sampling pipework

Diameter	27mm OD
Holes	up to 100 holes



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