# 9-30710

## AirSense Stratos HSSD2 High Sensitivity Smoke Detector - Minimum display version

### Description

AirSense 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 various protocols
- 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, VdS & UL approved

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## Technical specifications

### General

| | |
|---|---|
| User interface | LED |

### 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 | 0.003µ to 10µ |
| Alarm levels | 4 (Aux, Pre-alarm, Alarm and Alarm 2) |

### Sampling pipe

| | |
|---|---|
| Length | 100 m maximum single run (50 m in moving air), 200 m Combined maximum |
| Inlet quantity | 4 |
| Inlet size | 27 mm OD |
| Exhaust | 1 (optional) |

### Input

| | |
|---|---|
| Input quantity | 3, Progammable |

### 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) | Sheet steel |

### Environmental

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

### Regulatory

| | |
|---|---|
| Certification | EN54-20, UL |

### Sampling pipework

| | |
|---|---|
| Holes | up to 100 holes |

As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

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