# FHSD8025-99

## LaserSense 25 High Sensitivity Smoke Detector

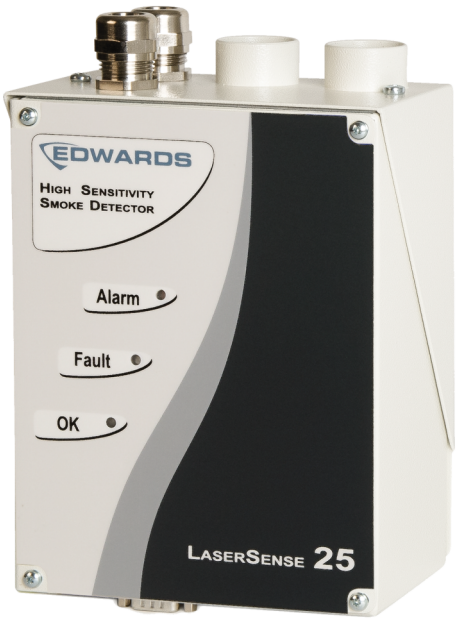
### Description

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.

### Details

- 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
- CPR and VdS approved

# FHSD8025-99

## LaserSense 25 High Sensitivity Smoke Detector

## Technical specifications

### General

| | |
|---|---|
| Status indication | LED |
| Alarm levels | 4 (Aux, Pre-alarm, Alarm and Alarm 2) |

### Electrical

| | |
|---|---|
| Operating voltage | 21.6 to 26.4 VDC |
| Current consumption | 250 mA |

### Detection

| | |
|---|---|
| Detection principle | Laser light scattering mass detection and particle evaluation |
| Range | 0.0015% to 25% |
| Particle sensitivity range | 0.003µ to 10µ |

### Sampling pipe

| | |
|---|---|
| Length | 50 m maximum run (25 m in moving air) |
| Quantity sampling holes | up to 10 holes |
| Inlet quantity | 1 |
| Inlet size | 27 mm OD |
| Exhaust | 1 (optional) |

### Input

| | |
|---|---|
| Input quantity | Optional input and relay card |

### Output

| | |
|---|---|
| Output quantity | 2, Alarm (n/o) and Fault (n/c)<br>Optional input and relay card |
| Output type and rating | 500 mA @30 V |

### Physical

| | |
|---|---|
| Physical dimensions | 145 x 220 x 85 mm (W x H x D) |
| Net weight | 1.7 kg |
| Colour | Cream |
| Mounting type | Surface mount |
| Cable entries | 2 x M20 |
| Material (body) | Sheet steel enclosure |

### Environmental

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

### Regulatory

| | |
|---|---|
| Certification | EN54-20 |

EDWARDS
*Built for Resilience*

As a company of innovation, Kidde Global Solutions reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 16 October 2026 - 11:34