FHSD8025-7-ULF

LaserSense 25 High Sensitivity Smoke Detector - UL & FM

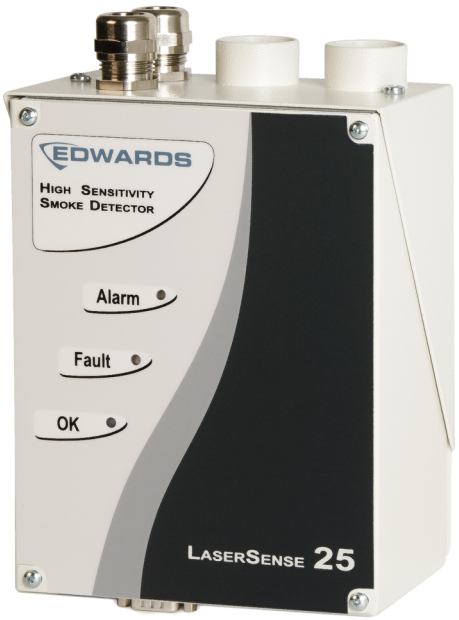
Description

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
- Heritage property protection
- Critical equipment
- Anti-smoking enforcement
- Motor rooms

Options Available

- 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

- UL approved to the latest UL268 7th edition
- 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
- 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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Technical specifications

Electrical

Operating voltage	21.6 to 26.4 VDC
Current consumption	250 mA

Detection

Detection principle	Laser light scattering mass detection and particle evaluation
Sensitivity	0.00046% Obs/ft. to 7.62% Obs/ft. (0.0015% Obs/m to 25% Obs/m)
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)

Physical

Physical dimensions	5.71” x 8.66” x 3.35” in (145 x 220 x 85 mm)
Net weight	3.7 lbs (1.7 kg)
Colour	Cream
Mounting type	Surface mount
Cable entries	2 x M20
Material (body)	Sheet steel enclosure

Environmental

Operating temperature	32 to +100°F (0 to +38°C) (UL) 32 to +120°F (0 to +49°C) (FM)
Relative humidity	0 to 90% noncondensing
Environment	Indoor
IP rating	IP40

Regulatory

Certification	FM, UL

Sampling pipework

Inlets	1
Diameter	27mm OD
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

Networking

SenseNET (RS-485)	On-board

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