FHSD8100-99

LaserSense 100 High Sensitivity Smoke Detector

Description

LaserSense 100 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.

Détails

- 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 100m 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

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Spécifications techniques

Général

Indication d'état	LED
Niveaux d’alarme	4 (Aux, Pre-alarm, Alarm and Alarm 2)

Électrique

Tension de fonctionnement	21.6 to 26.4 VDC
Consommation de courant	400 mA

Détection

Principe de détection	Laser light scattering mass detection and particle evaluation
Gamme	0.0015% to 25%
Gamme de sensibilité aux particules	0.003µ to 10µ

Taux échantillonnage

Longueur	100 m maximum run (50 m in moving air)
Qté de trous d'échantillonnage	up to 20 holes
Quantité d’entrée	2
Taille de l'orifice	27 mm OD
Échappement	1 (optional)

Entrée

Quantité entrée	Optional input and relay card

Sortie

Quantité des sorties	2, Alarm (n/o) and Fault (n/c) Optional input and relay card
Type de sortie et classe	500 mA @30 V

Caractéristiques physiques

Dimensions physiques	300 x 220 x 85 mm (W x H x D)
Poids net	3.8 kg
Couleur	Crème
Type de montage	Montage en surface
Entrées de câble	2 x M20
Matériel (boîte)	Boîtier en tôle d’acier

Environnement

Température de fonctionnement	-10 to +60°C(EN54-20)
Humidité relative	0 to 90% noncondensing
Environnement	Intérieur
Indice de protection	IP40

Régulateur

Certification	EN54-20

EDWARDS
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