FHSD8075

Edwards MiniLaser

Compact Aspirating Detection for Demanding Applications

The MiniLaser is a compact, single-zone aspirating smoke detector designed for applications that demand high sensitivity, advanced diagnostics, and flexible configuration. Built on proven ModuLaser technology, it delivers reliable early warning while maintaining a small footprint suitable for a wide range of installations.

High Resolution Detection with Intelligent Alarm Stability

MiniLaser uses laser-based forward-scattering optical detection, optimized for identifying extremely small particles associated with incipient fires. With very high optical resolution and multiple independent alarm levels, it supports early intervention while maintaining operational reliability.
The integrated ClassiFire technology continuously adapts sensitivity based on environmental conditions, ensuring long-term alarm stability and minimizing nuisance alarms throughout the detector's lifecycle. This intelligence maximizes early warning performance without increasing false alarm risk.

Designed for Fast Installation, Commissioning, and Service

MiniLaser is engineered to simplify every stage of deployment. Modular placement of the user interface and expansion modules allows flexible physical installation, while pre‑installation backplanes enable wiring to be completed early in the project lifecycle. Commissioning is accelerated through a DIP‑switch interface, enabling key configuration settings without a PC, while a USB-C interface supports advanced diagnostics, configuration, and firmware updates. All wiring terminals are front-accessible, allowing live testing and maintenance without powering down or dismantling the detector, significantly reducing service time and disruption.

Long Term Operational and System Integrity

MiniLaser delivers sustained value through features that enhance reliability, traceability, and lifecycle performance. Continuous airflow monitoring detects blocked sampling points, broken pipes, and abnormal flow conditions, while event logging and chart recording provide long-term visibility of system performance.
Embedded PipeCAD file storage ensures full design traceability over time, even when original documentation is unavailable. The 10/90 waste-gate airflow architecture and multi-layer internal dust filter extend maintenance intervals, protect the optical chamber, and support consistent detection performance over the product's lifetime.



Détails

- Dual Configuration : Dip-switch configuration setting for simple sampling pipe layouts or PipeCAD modeling for more complex sampling pipe with laptop configuration
- Customizable: Display sub-module and Expansion sub-module can be located most conveniently based on wiring needs, on either side of the detector module. Subjected to the specific requirements of the application, up to 2 functional-modules can be installed in the expansion sub-module
- Simplified installation : Ingenious docking station design allows detector to be easily installed. Sensitive electronics are easily removed to ensure they will not be damaged during first fix installation. Aspirating pipework and cable entries can easily be made into either the top or the bottom of the unit.
- Intuitive user interface : Easy to understand icon driven UI, providing status of faults and alarms. With the addition of a bar graph display showing smoke level development in the protected area.
- Easy pipe connection : The quick fit pipe adaptor system locks down securely, yet leaves plenty of room for easy pipe connection and removal.

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Spécifications techniques

Général

Indication d'état	LED's
Interface utilisateur	Alarm and fault indicators, with smoke bar graph display
Niveaux d'alarme	4 (Aux, Pre-alarm, Alarm and Alarm 2)
Journal des événements	20 000
Connectivité	USB (USB-C)

Électrique

Tension de fonctionnement	18 to 30 VDC
Consommation de courant	120 mA - fan speed 1 180 mA - fan speed 4 (default speed) 230 mA - fan speed 6 365 mA - fan speed 10

Détection

Principe de détection	Laser light scattering mass detection and particle evaluation
Sensibilité	0.002 %obs/m to 25 %obs/m (0.0006 %obs/ft to 7.62 %obs/ft)
Zone de couverture	Up to 1600m2 (subjected to local approvals and installation standards)
Gamme de sensibilité aux particules	0.003 to 10 microns

Taux échantillonnage

Longueur	Up to 125 m (410 ft.) combined per detector module
Qté de trous d'échantillonnage	Up to 10 - Class A per detector module Up to 20 - Class B per detector module Up to 35 - Class C per detector module
Taille de l'orifice	27 or 25 mm (1.06 or 0.98 in) outer diameter
Emplacement de l'orifice	Top or bottom
Taille d'échappement	27 or 25 mm (1.06 or 0.98 in) outer diameter
Emplacement d'échappement	Top or bottom

Entrée

Quantité entrée	1
Type d'entrée et classe	Supervised
Résiliation	15 KΩ 5% 1/4 W
Programmable	Yes

Sortie

Quantité des sorties	3
Type de sortie et classe	Voltage free (contact rating 2 A at 30 VDC / NO/NC/C)
Programmable	Yes (2 x outputs / 1 x fixed for fault)

Caractéristiques physiques

Dimensions physiques	W x D x H 165 x 133.5 x 300 mm (6.5 x 5.25 x 11.8 in)
Poids net	2.15 Kg (4.7 lb.)
Couleur	Grey-white (RAL 9002)
Type de montage	Rail DIN, Montage en surface
Entrées de câble	4 at the bottom, 2 at the rear, 5 at the top

Environnement

Température de fonctionnement	Equipment: -10 to +60°C (14 to +140°F) Sampled air: -40 to +60 °C (-40 to +140 °F) with sampled air heated to operational temperature of at least -10°C (14°F)
Humidité relative	0 to 95% noncondensing
Environnement	Intérieur
Indice de protection	IP40

Régulateur

Conformité	REACH, RoHS
Certification	CPR, EN54-20

Physical

Cable entry size	20 mm (0.5 in) - top and bottom
Detector module orientation	Vertical (0 deg or 180 deg)

Chart recorder

Sampling period	Adjustable between 1s and 60 s
Capacity	1 months @ 1s / Up to 5 years @ 60 s
Values recorded	Detector value, 4 alarm level values, flow value and temperature (all simultaneously)

Sampling pipe

Inlet quantity	1

Produits compatibles

Catégorie	Référence	Description
Module de détection	9-30520	
Module de détection	9-30521	

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