

FHSD8300-ULF

LaserSense ModuLaser, Minimum display module

Description

ModuLaser is a scalable aspirating smoke detection solution that makes installation easier, maintenance quicker, and takes applications further than traditional air sampling detectors. Two basic module types comprise the ModuLaser solution: a display module, and a detector module. Each detector module can accommodate up to 250 m / 820 ft. of combined sampling pipe. Display modules and detector modules communicate by RS-485 interconnections.

Display modules are available in three configurations: Standard with TFT color display, status LED's and navigation buttons, Minimum with only status LED's, and Command which is similar to the Standard but with the added functionality to control various modules over SenseNET. The Minimum and Standard Display Modules can each support up to 8 detector modules, while the Command Display Module can support up to 127 modules across the SenseNET network.

Minimum display module

The ModuLaser Minimum Display Module offers a cost effective alternative to the Standard Display Module. While the Standard Display Module features a user interface which consist of a TFT color display, navigation buttons and status LED's, the Minimum Display Module only features status LED's. Depending on the requirements of the installation, only having status LED's might be sufficient to locally indicate faults or alarms while still reporting faults and alarms via the relay outputs. Due to the absence of a screen and navigation buttons, the Minimum Display Module (and associated detectors modules) must be configured via a computer using Remote software or via SenseNET using a Command Display Module.

Perfect solution

Thanks to advanced features that make it virtually impervious to dust and dirt, ModuLaser is ideal for use in hostile environments that would disable other kinds of smoke detectors. Forward scattering optical detection adds early warning capability without the risk of nuisance alarms normally associated with high sensitivity smoke detection, while exclusive environmental compensation technology adds a high degree of reliability to an already solid detection solution.



Detaljer

- Modular Design : Separate centrally-controllable detector modules allow efficient piping and discrete zones with no overlap.
- Zoned aspirating smoke detection : Individual detector modules provide detection for individual areas or zones, specific zone alarm information can be transmitted to the main fire alarm panel through dedicated alarm relays within each detector module.
- Simplified installation : Ingenious docking station design allows detectors to be easily connected together as a group. 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 : Bright easy-to-see color TFT display and universal navigation and control buttons take the guesswork out of programming and diagnostics.
- Easy pipe connection : The quick fit pipe adaptor system locks down securely, yet leaves plenty of room for easy pipe connection and removal.
- Quick location of smoke : Each detector module is self-contained, which means no delays in determining in which zone (sampling pipe) smoke is present.

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Tekniska specifikationer

Allmänt

Statusindikering	LED's
Användargränssnitt	TFT and navigation buttons on Normal and Command Display Modules
Larmnivåer	4, Aux, Pre-alarm, Alarm and Alarm 2
Händelselogg	20.000 events per module
RS485-stöd	Yes (SenseNET and SenseNET+)
Anslutning	USB (x2) on Display Module

Elektrisk

Driftspänning	24 VDC nominal
Nuvarande förbrukning	Display Module (at 24 VDC): 232 mA (Standard), 232 mA (Command), 204 mA (Minimum) Detector Module (at 24 VDC): 940 mA (fan speed 16), 380 mA (fan speed 6, default), 260 mA (fan speed 1),

Detektering

Detektionsprincip	Laser light scattering mass detection and particle evaluation
Partikelkänslighetsområde	0.003 to 10 microns

Samplingsrör

Längd	Up to 250 m / 820 ft* combined per detector module
Antal provtagningshåll	Up to 50* * Sampling pipe design with PipeCAD, including classification of configuration
Inloppsstorlek	27 or 25 mm (1.06 or 0.98 in) outer diameter
Inloppsplats	Top or bottom
Avgasstorlek	27 or 25 mm (1.06 or 0.98 in) outer diameter
Poistoilman ulostulon sijainti	Top or bottom

Ingång

Ingångsmängd	2 per module
Ingångstyp och betyg	Supervised
Uppsägning	15 KΩ 5% 1/4 W
Programmerbar	Yes

Utgång

Utgångsmängd	3 per module
Utgångstyp och klassificering	Voltage free (contact rating 2 A at 30 VDC / NO/NC/C)
Programmerbar	Yes

Fysisk

Fysiska dimensioner	110.5 x 133.5 x 300 mm (4.35 x 5.25 x 11.8 in) W x D x H
Nettovikt	Display Module: 1.18 kg (2.6 lb.) Detector Module: 1.57 kg (3.46 lb.)
Färg	Grädde
Monteringstyp	Ytmontering
Kabelnmatningar	2 at the bottom, 2 at the rear, 2 at the top on Detector Module, and 3 at the top on the Display Module

Miljö

Driftstemperatur	0 to +38°C (UL), 0 to +49°C (FM)
Relativ luftfuktighet	0 to 90% noncondensing
Miljö	Inomhus
IP-betyg	IP40

Reglerande

Intygande	CSFM, FM, UL, ULC
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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 per detector module
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Regulatory

	Approved for use as open area protection and special application, as per UL268
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