

9-30782 AirSense ModuLaser, Command display module

General

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 meters 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.

Command display module

The Command Display Module features a user interface which consist of a TFT color display, navigation buttons and status LED's. Configuration of the Command Display Module (and associated detectors across the SenseNET network) can be done via the user interface, or via a computer using Remote software. The TFT color display support simple operations like changing configuration options via a menu driven structure, but also advanced features like viewing the chart recording in graphical format.

The Command Display Module support up to 127 modules across the SenetNET network. The 127 modules can be any combination of ModuLaser modules as well as Micra's and HSSD2's. The use of the Command Display Module creates an easy to use central point from where all modules/detector on the network can be accessed, and all alarms and faults are reported.

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.



Details

- 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 via a common APIC address card in the display module or 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.

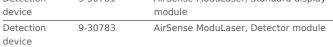
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Technical specifications

Status indication	LED's		
User interface	TFT and navigation buttons on Normal and		
	Command Display Modules		
Alarm levels	4, Aux, Pre-alarm, Alarm and Alarm 2		
Event log	20.000 events per module		
RS485 support	Yes (SenseNET and SenseNET+)		
Connectivity	USB (x2), IP and APIC on Display Module, with Modbus on Command Display Module		
Electrical			
Operating voltage	18 to 30 VDC		
Current consumption	Display Module (at 24 VDC): 204 mA (Minimum), 232 mA (Standard), 232 mA - Command Detector Module (at 24 VDC): 260 mA (fan speed 1), 380 mA (fan speed 6, default), 940 mA (fan speed 16)		
Detection			
Detection principle	Laser light scattering mass detection and particle evaluation		
Particle sensitivity range	e 0.003 to 10 microns		
Sampling pipe			
Length	Up to 250 m (820 ft.) combined per detector module		
Quantity sampling holes	5 Up to 20 - Class A per detector module Up to 40 - Class B per detector module Up to 50 - Class C per detector module		
Inlet size	27 or 25 mm (1.06 or 0.98 in) outer diameter		
Inlet location	Top or bottom		
Exhaust size	27 or 25 mm (1.06 or 0.98 in) outer diameter		
Exhaust location	Top or bottom		
Inlet quantity	1 per detector module		
Input			
Input quantity	2 per module		
Input type and rating	Supervised		
Termination	15 ΚΩ 5% 1/4 W		
Programmable	Yes		
Output			
Output quantity	3 per module		
Output type and rating	Voltage free (contact rating 2 A at 30 VDC / NO/NC/C)		
Programmable	Yes		
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Physical

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Physical dimensions		110.5 x 133.5 x 300 mm (4.35 x 5.25 x 11.8 in) (W x D x H)		
Net weight		Display Module: 1.18 kg (2.6 lb.)		
		Detector Module: 1.57 kg (3.46 lb.)		
Colour		Cream		
Mounting type		Surface mount		
Cable entries		2 at the bottom, 2 at the rear, 2 at the top on		
		Detector Module, and 3 at the top on the Displa		
		Module	2	
Cable entry size		20 mm (0.5 in) - top and bottom		
Detector module		Vertical (0 or 180 deg)		
orientation				
Environme	ental			
Operating temperature		Equipment: -20 to +60°C (-4 to +140°F)		
		Sampled air: -20 to +60°C (-4 to +140°F)		
Relative humidity		0 to 95% noncondensing		
Environment		Indoor		
IP rating		IP40		
Regulatory	/			
Compliancy		REACH, RoHS		
Certification		BOSEC, CPR, CSIRO, EN54-20, LPCB, VdS		
Chart reco	rder			
Sampling period		Adjustable between 1 s and 60 s		
Capacity		1 months @ 1 s / Up to 5 years @ 60 s		
Values recorded		Detector value, 4 alarm level values, flow value		
		and temperature (all simultaneously)		
Compatibl	e produc	ts		
Category	Refere	nce	Description	
Detection device	9-3078	0	AirSense ModuLaser, Minimum Display Module	
Detection	9-3078	1	AirSense ModuLaser, Standard display	
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