

Kidde Senator ModuLaser, Command display module

9-30782-KID



Overview

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. Up to 250 m (820 ft.) combined per detector module. 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 module, while the Command Display Module can support up to 127 modules across the SenetNET 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.

Features and benefit

- 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 adapt 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.

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.



Australia & New Zealand

Phone: 1800 672 171
 Outside Australia: +61 3 9518 5588
 Email: cs@firesecurityproducts.zendesk.com
 Web: www.kidde.com.au

Head Office

10 Ferntree Place
 Notting Hill, Victoria 3168
 Australia

© 2022 Carrier. All rights reserved.
 Kidde Australia is a Carrier company.

Standards & regulation

Certification	EN54-20
Environmental	RoHS, REACH

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)

Ordering Information

9-30780-KID	Kidde Senator ModuLaser - Minimum display module
9-30781-KID	Kidde Senator ModuLaser - TFT display module
9-30782-KID	Kidde Senator ModuLaser - Command module
9-30783-KID	Kidde Senator ModuLaser - Detector module
9-30798-2	ModuLaser Wiring housing - grey (blank module to house I/Os)

9-30781-KID - Technical Specification

Electrical

Operating voltage	18 to 30 VDC
Current consumption	204 mA - Minimum Display Module 232 mA - Standard Display Module
Display Module	232 mA - Command Display Module
Detector Module:	260 mA - fan speed 1 380 mA - fan speed 6 (default speed) 940 mA - fan speed 16

Detection

Detection principle	Laser light scattering mass detection and particle evaluation
Particle sensitivity range	0.003 to 10 microns

Sampling Pipe

Length	Up to 250 m combined per detector module
Quantity sampling holes	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
Inlet quantity	1 per detector module

Input

Input quantity	2 per module
Input type and rating	Supervised
Termination	15 K Ω 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

General

Status indication	LEDs
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 SeneseNET+)
Connectivity	USB (x2)

Physical

Physical dimensions	W x D x H 110.5 x 133.5 x 300 mm
Net weight	Display Module: 1.18 Kg / Detector Module: 1.57 Kg
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 Display Module
Cable entry size (top and bottom)	20 mm
Detector module orientation	Vertical (0 deg or 180 deg) or horizontal

Environmental

Operating temperature	Equipment: -20 to +60 °C / Sampled air: -20 to +60 °C
Relative humidity	0 to 95% noncondensing
Environment	Indoor
IP rating	IP40