

DATASHEET

FHSD8330-EN

ModuLaser

MAIN FEATURES

- ModuLaser
- detector module



TECHNICAL SPECIFICATIONS

Power supply

Operating voltage	18 to 30 VDC
Current consumption	Display Module (at 24 VDC): 204 mA - Minimum Display Module 232 mA - Standard Display Module 232 mA - Command Display Module Detector Module (at 24 VDC): 260 mA - fan speed 1 380 mA - fan speed 6 (default speed) 940 mA - fan speed 16

Inputs / outputs

Input quantity	2 per module
Input type and rating	Supervised
Output type and rating	Voltage free (contact rating 2 A at 30 VDC / NO/NC/C)

Physical characteristics

Inlet size	27 or 25 mm (1.06 or 0.98 in) outer diameter
Exhaust size	27 or 25 mm (1.06 or 0.98 in) outer diameter
Physical dimensions	110.5 x 133.5 x 300 mm (W x D x H) 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	Grey-white (RAL 9002)
Mounting type	Surface mount
Cable entry size	20 mm (0.5 in) - top and bottom

Environmental characteristics

Operating temperature	Equipment: -10 to +60°C (14 to +140°F) Sampled air: -20 to +60 °C (-4 to +140 °F)
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TECHNICAL SPECIFICATIONS

Relative humidity	0 to 95% noncondensing
Environment	Indoor
IP rating	IP40
Other characteristics	
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
Detection principle	Laser light scattering mass detection and particle evaluation
Sensitivity	0.002 %obs/m to 25 %obs/m (0.0006 %obs/ft to 7.62 %obs/ft)
Coverage area	Up to 3000m ² (subjected to local approvals and installation standards)
Particle sensitivity range	0.003 to 10 microns
Length	Up to 250 m (820 ft.) 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 location	Top or bottom
Exhaust location	Top or bottom
Inlet quantity	1 per detector module
Termination	15 K Ω 5% 1/4 W
Programmable	Yes
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
Detector module orientation	Vertical (0° or 180°)
Compliance	REACH, RoHS
Certification	BOSEC, CPR, EN54-20
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)