

DATASHEET

FHSD8320-EN

ModuLaser

MAIN FEATURES

- ModuLaser
- Command display module



TECHNICAL SPECIFICATIONS

Power supply

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)

Inputs / outputs

Input quantity	2 per module
Input type and rating	Supervised
Output quantity	3 per module
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, (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, with Modbus on Command Display Module
Detection principle	Laser light scattering mass detection and particle evaluation
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 moduleUp to 40 - Class B per detector moduleUp 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 KΩ 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
Compliance	REACH, RoHS
Certification	BOSEC, CPR, EN54-20
Detector module orientation	Vertical (0 deg or 180 deg)
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)