PROTECTOWIRE®
FireSystems

Stratos-Micra™ 25
Localized Aspirating Smoke Detector

Features

- Ultra small low cost aspirating smoke detector for easy and discreet installation.

- High sensitivity provided by laser based forward light scatter mass detection with particle evaluation for reliable very early warning.

- Single sampling pipe up to 164ft (50m) in length.

- Unique ClassiFire® Perceptive Artificial Intelligence system that dynamically adjusts the detector's operating parameters, allowing for day to day changes in the protected environment and filter loading.

- Unwanted alarms from dust are avoided using patented Dual Technology LDD-3D™ Laser Dust Discrimination and elimination system.

- RS485 and RS232 communications built in as standard for networking, and remote communications.

Description

Stratos-Micra 25 is designed to provide very high sensitivity smoke detection in a small package.

ClassiFire Perceptive Artificial Intelligence ensures that the detector operates at optimum sensitivity for the protected environment, without the need for complex setup. This means the product will configure itself to provide high sensitivity in a computer room or reduced sensitivity in areas with a high ambient background.

The detector is designed to fit into a Docking Station. All sampling pipes and cables are connected to the Docking Station as a first fix operation leaving the detector to be fitted during the final commissioning phase if required. This ensures that detectors are less likely to be damaged during the installation.

Equipped with 'Fault' and 'Fire' relays on-board. Can be ordered with optional Input Relay Card which provides four levels of alarm, fault and three programmable inputs. Relay outputs provide a convenient method for remote monitoring by local fire alarm panels or Building Management Systems.

Options Available

• Command Module available for central monitoring and display.
• SenseNET™ compatible - up to 127 detectors per loop.
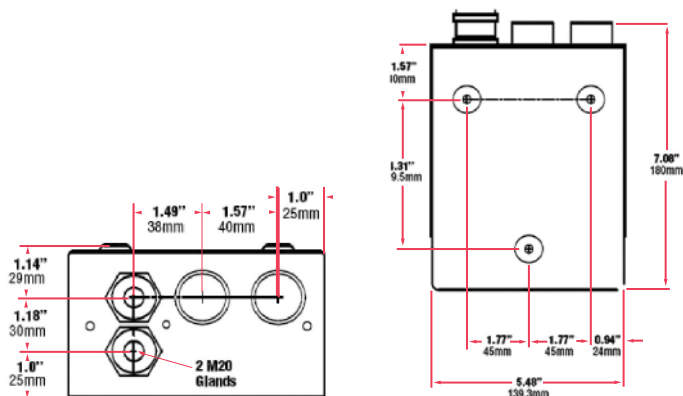• Remote Display units available.

Approvals

Approved/listed by most major international fire protection certification agencies including UL, cUL, FM, MEA, CSFM.

Specifications Stratos-Micra 25

Supply Voltage	21.6 - 26.4VDC
Current Consumption	250mA @ 24VDC
Size	5.71w x 8.66h x 3.35d (inch) 145w x 220h x 85d (mm)
Weight	3.7lb (1.7kg)
Operating Temperature Range	14° to 100° F (-10° to 38° C) (UL268)
Operating Humidity Range	0 - 90% non-condensing
Measurement Range	0.00046% to 7.62% obs/ft (0.0015% to 2.33% obs/m)
Maximum Display Resolution	0.00046% obs/ft (0.0015% obs/m)
Detection Principle	Laser light scattering mass detection and particle evaluation
Particle Sensitivity Range	0.003µ to 10µ
Dust Discrimination Principle	3D³™ Laser Dust Discrimination (LDD)
Recommended Max. Pipe Length	164ft (50m)
Sampling Pipe Diameter	3/4" (19mm) Nominal bore, 1" (27mm) OD
Recommended maximum number of sampling ports	10
Alarm Levels	4 (Aux, Pre-Alarm, Fire 1 and Fire 2)
Laser Lifetime (MTTF)	Greater than 1000 years
Programming	Command Module or PC via RS232/RS485
Network Data Bus	RS-485
Max. Total Data Bus Length	4,000ft (1,200m)
IP Rating	IP50
Sampling Pipe Inlets	1 (Docking Station)
Exhaust Air Pipe Outlets	1 (Docking Station)

Docking Station Dimensions

Leave 3.14" (80mm) clearance at top and bottom
of docking station for access.

Ordering Information

Part No.	Description
30671	Stratos-Micra 25 with Docking Station
30760	Stratos-Micra 25 with Docking Station and Relay Input Card
30436	Relay Input Card
30755	Replacement Filter Cartridge
30420	Setup and Servicing Software (free of charge)
30419	Null Model RS232 Serial Cable (pc interface)
30902US	24VDC 2.5 amp Regulated Power Supply

Applications

• Data Storage Cabinets
• Semiconductor Tools
• Prison Cells
• Mechanical Rooms
• Air Conditioning Units
• Equipment Racks
• Computer Rooms
• Flight Simulators
• Atriums

• Duct Applications
• Heritage Buildings
• Critical Equipment
• Elevator Shafts
• Motor Control Rooms
• MRI
• Tape Vaults
• Record Storage
• Cable Vaults