

# AUTROSENSE NANO

## Aspirating Smoke Detector Product Datasheet

### Features

- Aspirating smoke detection in a small package for easy and discreet installation
- Designed to bring the benefits of true aspirating smoke detection to applications where cost would previously have limited installations to “point detector in a fan box” type systems
- High sensitivity provided by laser based forward light scatter for reliable early warning
- Laser smoke sensor chamber specially designed for aspirating detection avoids the airflow problems associated with point-in-a-box type solutions
- Up to 50m of sampling pipe with 10 sampling holes
- 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 dust separation system contamination
- Unwanted alarms from dust are avoided using patented Dual Technology LDD 3D<sup>3</sup> Laser Dust Discrimination and elimination system
- Easy commissioning without the need for a PC
- RS485 communications for networking and remote communications available through add-on optional board

### Description / Application (Alt+2)

AutroSense Nano is designed to provide reliable aspirating smoke detection in a small, easy to install package.

The detector is supplied in a robust polycarbonate enclosure. An internal DIL switch enables simple onsite programming without the need for a special programmer or laptop PC.

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 clean environment or reduced sensitivity in a smoky area.

Interfacing to AutoSafe and AutoPrime systems via integral Pre-Alarm, Fire and Fault relays.

### Options Available

- Remote Display units
- Communications card

### Application & Acceptance

- AutroSense detectors have been successfully applied in tens of thousands of applications worldwide

Product Name	Part number	Description
AutroSense Nano	116-5861-018.1207	Aspirating smoke detector, English version
AutroSense Nano	116-5861-018.1206	Aspirating smoke detector, Swedish version
AutroSense Nano	116-5861-018.1205	Aspirating smoke detector, Norwegian version

Technical specifications	
Supply Voltage	S 21.6 V - 26.4 VDC
Current consumption	350 mA @ 24 VDC
Size	190W x 230H x 110D
Weight	1.2 kg
Operating temperature range	-10 to +38 °C (UL268) -10 to +60 °C (EN54 Part 20)
Operating humidity range	0 – 90 % non-condensing
Measurement range (%Obs/m)	0.3 % to 25% obs/m
Detection principle	Laser light scattering mass detection and particle evaluation
Particle sensitivity range	0.003 µm to 10 µm
Dust discrimination principle	3D3 Laser Dust Discrimination (LDD)
Max. Sampling pipe length	50 m
Sampling pipe diameter	3/4" nominal bore (27 mm O/D)
EN54 Part 20 no. sampling holes	EN54 Part 20 no. sampling holes Class A - 2 holes Class B - 4 holes Class C - 10 holes
Alarm levels	Fire, Pre-Alarm and Fault
Integral Relays	Pre-Alarm, Fire and Fault
Laser chamber service intervals	Greater than 10 years (dependent on environment)
Programming	Through integral commissioning switches
Communication	RS232/RS485 (via optional card)
IP rating	IP50
Sampling pipe inlets	1
Exhaust air pipe outlets	1
Approvals	<a href="http://www.autronicafire.com">www.autronicafire.com</a>