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Illumino Ignis Ltd™
LIGHTING & FIRE DESIGN, SUPPLY & SUPPORT

Optical Smoke Detectors

Two-Wire - Devices

Part No. 55000-390APO

www.illuminoignis.co.uk

Product Details

Caution: System compatibility
AlarmSense detectors can only be used in a system that is powered and controlled by purpose designed AlarmSense fire control panels*.

The AlarmSense Optical Smoke Detectors work using the light scatter principle. The optical detector changes to alarm state at a pre-set threshold of smoke penetration into the sensing chamber. The integrating optical detector has the ability to monitor and discard transient sources of smoke, and has a 20 second delay before changing into an alarm state.



Key Features

- Responds well to slow-burning, smouldering fires
- Suitable for bedrooms and escape routes
- 360° visibility of LEDs
- Reduces false alarms
- Quick and simple installation

Technical Specifications

All data is supplied subject to change without notice. Specifications are typical at 24 V, 25°C and 50% RH unless otherwise stated.

Detection principle	Photo-electric detection of light scattered by smoke particles over a wide range of angles.	
Sampling frequency	Once every four seconds	
Supply voltage	9 V dc - 33 V dc	
Supply wiring	Two wire supply, polarity insensitive	
Quiescent current at 15 V	< 50 µA	
Alarm current at	2 - 8.5 V	< 1.5 mA
	10.5 - 15 V	25 ± 2 mA
	18 - 24 V	< 1.5 mA
	33 V	< 2 mA
Maximum reset voltage	2 V	
Reset time	1 sec	

Max supply interruption time	40 ms
Operatng temperature	-10 °C to +55 °C
Humidity (no condensation or icing)	0% to 93% RH
IP Rating	designed to IP44
Standards and approvals	EN 54-7, CPR, FG
Dimensions	100 mm diameter x 42 mm height 100 mm diameter x 50 mm height in base
Weight	90 g detector
Materials	Housing: White flame-retardant polycarbonate Terminals: Nickel plated stainless steel

EMC Directive 2014/30/EU

The AlarmSense Optical Smoke Detectors comply with the essential requirements of the EMC Directive 2014/30/EU, provided that they are used as described in this data sheet.

A copy of the Declaration of Conformity is available from Apollo upon request.

Conformity of the AlarmSense Optical Smoke Detectors with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to it.

Construction Products Regulation 305/2011/EU

The AlarmSense Optical Smoke Detectors comply with the essential requirements of the Construction Products Regulation 305/2011/EU.

A copy of the Declaration of Performance is available from Apollo upon request.

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