

# AlarmSense

## Optical Smoke Detectors



### Product overview

Product	Optical Smoke Detector
Part No.	55000-390
Product	Integrating Optical Smoke Detector
Part No.	55000-391

### Compliance



### Product information



#### 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.

- 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 data

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

<b>Detection principle</b>	Photo-electric detection of light scattered by smoke particles over a wide range of angles.								
<b>Sampling frequency</b>	Once every four seconds								
<b>Supply voltage</b>	9 V dc - 33 V dc								
<b>Supply wiring</b>	Two wire supply, polarity insensitive								
<b>Quiescent current at 15 V</b>	< 50 µA								
<b>Alarm current at</b>	<table border="0"> <tr> <td>2 - 8.5 V</td> <td>&lt; 1.5 mA</td> </tr> <tr> <td>10.5 - 15 V</td> <td>25 ± 2 mA</td> </tr> <tr> <td>18 - 24 V</td> <td>&lt; 1.5 mA</td> </tr> <tr> <td>33 V</td> <td>&lt; 2 mA</td> </tr> </table>	2 - 8.5 V	< 1.5 mA	10.5 - 15 V	25 ± 2 mA	18 - 24 V	< 1.5 mA	33 V	< 2 mA
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10.5 - 15 V	25 ± 2 mA								
18 - 24 V	< 1.5 mA								
33 V	< 2 mA								
<b>Maximum reset voltage</b>	2 V								
<b>Reset time</b>	1 sec								
<b>Max supply interruption time</b>	40 ms								
<b>Operating temperature</b>	-10 °C to +55 °C								
<b>Humidity (no condensation or icing)</b>	0% to 93% RH								
<b>IP Rating</b>	designed to IP44								
<b>Standards and approvals</b>	EN 54-7, CPR, FG								
<b>Dimensions</b>	100 mm diameter x 42 mm height 100 mm diameter x 50 mm height in base								
<b>Weight</b>	90 g detector								
<b>Materials</b>	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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