Conventional

Fireray One Beam Detector



Product Overview

Product	**Fireray One Conventional Beam Detector**
Part No.	**SC7000-101APO**

Product Information

Fireray® One is a standalone beam detector that prioritises ease of installation. Using the Fireray One, it couldn't be easier to bring the benefits of beam detection to your application. With the addition of the Long Range Kit, you can extend it's detection capabilities up-to 120m.

- Single Standalone Detector
- One Minute Auto Alignment
- False Alarm Resistant
- Light Cancellation Technology
- Motorised Building Movement Technology
- Easy Setup
- Time Delay for Alarm

Manufacturer's Specification

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

Supply voltage		*14 V – 36 V dc*
Operating current:		
	All Operational Modes	*5 mA*
	Fast Alignment Mode	*33 mA*
Response threshold:		
	25% (1.25dB)	*fastest response to smoke*
	35% (1.87dB)	*default value*
	55% (3.46dB)	*high immunity to false alarms, slow response to smoke*
	85% (8.23dB)	*highest immunity to false alarms, slowest response to smoke - configured via the integrated user interface*
Detection Range		*0 - 50 m* *0 - 120 m with Reflective Long Range Kit*
Optical wavelength		*850 nm near infrared (invisible)*
Delays (user settable)		
	Alarm	*10 seconds for momentary partial obstruction of the beam path*
	Fault	*10 seconds for momentary obstruction of the beam path*
Operating temperature		*-20°C to 55°C*
Storage temperature		*-40°C to 85°C*
Humidity (no condensing or icing)		*0% to 93% RH*
IP Rating		*IP55*
Dimensions:		
	Detector	*130 mm (w) x 181 mm {h) x 134 mm (d)*
	Reflector	*up to 50 m separation distance - single reflector 100 (w) mm x 100 (h) mm x 9 (d) mm* *up to 120 m separation distance - four reflectors arranged in a square pattern 200 (w) mm x 200 (h) mm x 9 (d) mm*
Weight:		
	Detector	*0.7 kg*
	Reflector	*0.1 kg*
Housing material		*polycarbonate*
Colour		*white*

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Status Indication

During normal operation the Detector Status indicator LED will flash green every 10 seconds, and both Fire and Fault relays will be in their normal position.

If the detector is in Fault state, its LED will flash amber every 10 seconds to indicate Signal High/Low Fault, every 5 seconds to indicate AGC/Compensation Fault, and every 3 seconds to indicate Internal Fault. The Fault relay will change state.

If the detector is in Fire state, its LED will flash red every 5 seconds and the Fire relay will change state.

Cleaning

The Detector will automatically compensate for dust build up by changing its AGC level. Once the AGC limit has been reached, the Detector will indicate a Fault and cleaning must be performed.

It is therefore recommended that the Detector lens windows and the Reflector are periodically cleaned with a soft lint-free cloth to prevent AGC limit faults occurring.

After cleaning, if the Detector is in Fault state, the signal strength may have increased above the Signal Too High threshold. If this is the case, re-align the Detector.

Testing

After installation or cleaning it is recommended that a Fire test is performed.

Fire Test: Cover the reflector slowly so that it takes longer than 5 seconds to cover. The Detector will indicate Fire after 10 seconds.

EMC Directive 2014/30/EU

The Fireray One Conventional Beam Detector complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this data sheet.

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

Conformity of the Fireray One Conventional Beam Detector with the EMC Directive does not confer compliance with the directive on any apparatus or systems connected to it.

Construction Products Regulation (EU) 305/2011

The Fireray One Conventional Beam Detector complies with the essential requirements of the Construction Products Regulation (EU) 305/2011.

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