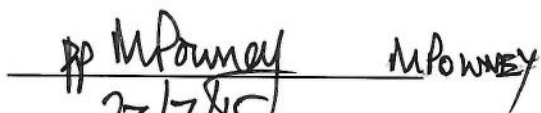




# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx BAS 13.0069X issue No.:2  
Status: **Current**  
Date of Issue: 2015-07-24 Page 1 of 4  
Applicant: **Honeywell Analytics Limited**  
Hatchpond House  
4 Stinsford Road  
Nuffield Estate  
Poole, Dorset  
BH17 ORZ  
United Kingdom  
Electrical Apparatus: **Searchpoint Optima Plus Infrared Point Detector**  
*Optional accessory:*  
Type of Protection: **Flameproof, Protection by enclosure, Inherently safe optical radiation**  
Marking: **Ex d op is IIC T\* Gb (For T\* see below)**  
**Ex tb IIIC T\* Db**  
**\*T86°C (T<sub>amb</sub> -40°C to +55°C) or \*T96°C (T<sub>amb</sub> -40°C to +65°C)**  
Approved for issue on behalf of the IECEx Certification Body: R S Sinclair  
Position: Technical Manager  
Signature: *(for printed version)*   
Date: 27/7/15

Certificate history:  
Issue No. 2 (2015-7-24)  
Issue No. 1 (2014-9-5)  
Issue No. 0 (2014-5-14)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SGS Baseefa Limited  
Rockhead Business Park  
Staden Lane  
Buxton  
Derbyshire  
SK17 9RZ  
United Kingdom





# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 13.0069X

Date of Issue: 2015-07-24

Issue No.: 2

Page 2 of 4

Manufacturer: **Honeywell Analytics Limited**  
Hatchpond House  
4 Stinsford Road  
Nuffield Estate  
Poole, Dorset  
BH17 ORZ  
United Kingdom

Additional Manufacturing location  
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-28 : 2006-08</b> Edition: 1	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
<b>IEC 60079-31 : 2013</b> Edition: 2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

#### Test Report:

GB/BAS/ExTR13.0148/00

GB/BAS/ExTR14.0253/00

#### Quality Assessment Report:

GB/SIR/QAR11.0027/02



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 13.0069X

Date of Issue: 2015-07-24

Issue No.: 2

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Searchpoint Optima Plus Infrared Point Detector is rated up to 32V d.c. with a maximum power dissipation of 8W. The unit comprises a cylindrical enclosure, manufactured in stainless steel, with a central spigot joint secured by 2 off M5 by 16mm long stainless steel socket head cap screws of grade A4-80. At the rear of the unit is an M25 or 3/4" NPT male thread with integral conductors passing through an epoxy cement barrier. At the front of the unit is a quartz or sapphire window and two heated arms to support an external mirror assembly.

The interior of the unit comprises a series of internal PCB's and a 3V 230mAh primary cell and an optical assembly dissipating a maximum of 5.5W, together with heater resistors mounted within the support arms dissipating up to a further 2.5W.

Internal earthing is by means of the supply cable and external earth connection facilities are provided at the rear of the central joint fixings.

To obviate the risk of hotspots and capacitor energy storage associated with this unit the cover must not be opened, even when isolated, when an explosive atmosphere is present. Each enclosure is marked with this information.

This apparatus is to be installed and used in accordance with the appropriate codes of practice and the manufacturer's instructions.

A range of weather protection covers and sensing heads may also be provided. The sensing heads are for the detection of sporadic explosive atmospheres or calibration only, and are not intended for continuous monitoring/measurement of explosive gas concentrations.

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. The integral leads must be suitably terminated and protected from impact.
2. For replacement purposes the cover fixing screws shall be grade A4-80 minimum.
3. Optical power through the Searchpoint Optima Plus is to be limited to a radiated power of less than 35mW and a peak power density of less than 5mW/mm<sup>2</sup> as defined by IEC 60079-28.



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 13.0069X

Date of Issue: 2015-07-24

Issue No.: 2

Page 4 of 4

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### Variation 2.1

To change the linked QAR.

File Reference: 15/0532