



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX BAS 13.0069X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 6	Issue 5 (2020-05-11)
Date of Issue:	2021-11-08		Issue 4 (2018-12-18)
Applicant:	Honeywell Analytics Limited Hatchpond House 4 Stinsford Road Nuffield Estate Poole, Dorset BH17 ORZ United Kingdom		Issue 3 (2016-12-21)
Equipment:	Searchpoint Optima Plus Infrared Point Detector		Issue 2 (2015-07-24)
Optional accessory:			Issue 1 (2014-09-05)
Type of Protection:	Flameproof, Protection by enclosure, Inherently safe optical radiation		Issue 0 (2014-05-14)
Marking:	Ex db op is IIC 86°C/96°C Gb Ex tb IIIC T86°C/T96°C Db (Ta -40°C to +55°C/+65°C)		

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:
(for printed version)

Date:

9/11/2021

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 www.iecex.com or use of this QR Code.



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**

Page 2 of 4

Date of issue: 2021-11-08

Issue No: 6

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

Additional
manufacturing
locations:

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 equipment 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

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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 Reports:

[GB/BAS/ExTR13.0148/00](#)
[GB/BAS/ExTR18.0087/00](#)

[GB/BAS/ExTR14.0253/00](#)
[GB/BAS/ExTR20.0077/00](#)

[GB/BAS/ExTR16.0384/00](#)
[GB/BAS/ExTR21.0195/00](#)

Quality Assessment Report:

[GB/SIR/QAR11.0027/07](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 13.0069X**

Page 3 of 4

Date of issue: 2021-11-08

Issue No: 6

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 ¾" 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.

SPECIFIC CONDITIONS OF USE: 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/mm² as defined by IEC 60079-28.



IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 13.0069X**

Page 4 of 4

Date of issue: 2021-11-08

Issue No: 6

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 6.1

To allow an additional method of applying the marking label.

ExTR: **GB/BAS/ExTR21.0195/00**

File Reference: **21/0619**