

EC - TYPE EXAMINATION CERTIFICATE

**Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

EC - Type Examination Certificate Number: **Baseefa13ATEX0296X**
Equipment or Protective System: **Searchpoint Optima Plus Infrared Point Detector**
Manufacturer: **Honeywell Analytics Limited**
Address: **Hatchpond House, 4 Stinsford Road, Nuffield Estate, Poole, Dorset, BH17 0RZ**

This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR13.0148/00**

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 EN 60079-1:2007 EN 60079-28:2007 EN 60079-31:2013

except in respect of those requirements listed at item 18 of the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

The marking of the equipment or protective system shall include the following :

Ⓔ II 2 GD Ex d op is IIC T* Gb (For T* see below)

Ex tb IIIC T* Db

***T86°C (T_{amb} -40°C to +55°C) or *T96°C (T_{amb} -40°C to +65°C)**

Baseefa Customer Reference No. **0981**

Project File No. **13/0463**

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P R S SINCLAIR
GENERAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

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Certificate Number Baseefa13ATEX0296X

15 Description of Equipment or Protective System

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 accessories including weather protection covers and sensing head flow housings may also be provided. The flow housings are intended for use in intermittent explosive atmospheres only, and may not be used to monitor environments where an explosive atmosphere is present continuously.

16 Report Number

Baseefa certification report GB/BAS/ExTR13.0148/00.

17 Specific Conditions of Use

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 EN 60079-28.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
2108E0036	1 of 1	7	24/04/14	General assembly
2108E0037	1 of 1	3	10/01/14	Base casting
2108E0038	1 of 1	1	01/08/11	Cover casting
2108E0039	1 of 1	7	24/04/14	Accessories
2108E0042	1 of 1	1	20/06/11	Protective cover details
2108E0044	1 of 1	2	07/03/14	Internal arrangement

These drawings are common to, and held with, certificate IECEx BAS 13.0069X.

1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

- 3 Supplementary EC - Type Examination Certificate Number: **Baseefa13ATEX0296X/1**
- 4 Equipment or Protective System: **Searchpoint Optima Plus Infrared Point Detector**
- 5 Manufacturer: **Honeywell Analytics Limited**
- 6 Address: **Hatchpond House, 4 Stinsford Road, Nuffield Estate, Poole, Dorset,
BH17 0RZ**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa13ATEX0296X** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

Baseefa Customer Reference No. **0981**

Project File No. **14/0596**

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A handwritten signature in blue ink, appearing to read 'R S Sinclair'.

R S SINCLAIR
GENERAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

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Certificate Number Baseefa13ATEX0296X/1

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Description of the variation to the Equipment or Protective System

Variation 1.1

To permit the detector to be marked in the name of Consilium.

16

Report Number

GB/BAS/ExTR14.0253/00.

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Specific Conditions of Use

None additional to those listed previously

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Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

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Drawings and Documents

Number	Sheet	Issue	Date	Description
2108E0045	1	1	08.07.14	Certification Label - Consilium

This drawing is common to, and held with, certificate IECEX BAS 13.0069X.