

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 2014/34/EU**

3 EU - Type Examination Certificate Number: **BAS98ATEX2165X – Issue 12**

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **SEARCHLINE Excel Infra-red Gas Detector, Transmitter and Receiver Units**

5 Manufacturer: **Honeywell Analytics Limited**

6 Address: **Hatchpond House, 4 Stinsford Road, Nuffield Estate, Poole, Dorset, BH17 0RZ**

7 This re-issued certificate extends EC Type Examination Certificate No. **BAS98ATEX2165X** to apply to product 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.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History**

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

**EN IEC 60079-0: 2018 EN 60079-1: 2014 EN 60079-28: 2015**

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

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

 \*See Schedule

SGS Fimko Oy Customer Reference No. **0981**


Project File No. **21/0081**

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13

## Schedule

14

### Certificate Number BAS98ATEX2165X – Issue 12

#### 15 Description of Product

The SEARCHLINE Excel Infrared Gas Detector, Transmitter & Receiver Units are rated at 24Vd.c (operate from 18V to 32V) with a maximum power dissipation of 10 watts.

Both units comprise a cylindrical enclosure manufactured in stainless steel with a mounting lug cast onto the side. The enclosure cover includes a toughened glass window and an optional integral weather cowl or mounting lugs. The cover is secured by 2 off socket head cap screws of grade 12.9 high tensile steel or grade A2-80/A4-80 stainless steel.

The rear section incorporates integral connection cables and a female thread for connection to suitable terminal facilities via conduit or similar means. The interior of the enclosure may be in the form of a transmitter or receiver unit dependant on the internal component configuration.

The transmitter unit contains an optical assembly, including an infrared emitting device, and several printed circuit boards. A window heater is affixed to the internal window surface.

The receiver unit contains an optical block assembly, a window heater and several printed circuit boards.

Internal earthing is by means of the supply cable and external earth connection facilities are provided adjacent to the cable entry.

The equipment marking is as follows:

##### Transmitter

⊕ II 2G Ex db op is IIC T6 Gb ( $T_{amb} = -40^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ ) or  
Ex db op is IIC T5 Gb ( $T_{amb} = -40^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$ )

##### Receiver

⊕ II 2G Ex db IIC T6 Gb ( $T_{amb} = -40^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ ) or  
Ex db IIC T5 Gb ( $T_{amb} = -40^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$ )

#### 16 Report Number

See Certificate History

#### 17 Specific Conditions of Use

1. The integral supply cables must be mechanically protected and terminated in a suitable terminal or junction facility.
2. The cover fixing screws shall be a minimum grade of A2-80/A4-80 stainless steel, or 12.9 high tensile steel.

#### 18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.4.1	External effects
1.4.2	Aggressive substances, etc.

## 19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
2104E6051	1	6	15.03.21	SEARCHLINE EXCEL CERT DRG STANDARD Tx IECE <sub>x</sub> & ATEX
2104E6053	1	6	16.03.21	SEARCHLINE EXCEL CERT DRG STANDARD RECIEVER IECE <sub>x</sub> & ATEX
2104E6059	1	6	16.03.21	SEARCHLINE EXCEL CERT DRG R <sub>x</sub> DUCT MTG IECE <sub>x</sub> & ATEX
2104E6060	1	5	16.03.21	SEARCHLINE EXCEL CERT DRG Tx DUCT MOUNT IECE <sub>x</sub> & ATEX

These drawings are common to IECEX BAS 09.0100X and BAS21UKEX0025X

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
2104E6054	1	3	10/11/15	SEARCHLINE EXCEL CERT DRG Tx – CASING STANDARD IECE <sub>x</sub> & ATEX
2104E6055	1	3	10/11/15	SEARCHLINE EXCEL CERT DRG Tx – WINDOW HOLDER IECE <sub>x</sub> & ATEX
2104E6061	1	3	10/11/15	SEARCHLINE EXCEL CERT DRG WINDOW HOLDER DUCT MTG IECE <sub>x</sub> & ATEX

These drawings are also common to IECEX BAS 09.0100X and BAS21UKEX0025X

## 20 Certificate History

Certificate No.	Date	Comments
BAS98ATEX2165X	16 July 1998	The release of the prime certificate. The associated test and assessment against the requirements of EN50014: 1997 and EN 50018: 1994 is documented in Test Report No. 97(C)0932.
BAS98ATEX2165X/1	19 October 1998	To permit an alternative method of internal connection with an I/O PCB replacing the support plate and minor modifications to the filter/connection PCB. No report.
BAS98ATEX2165X/2	10 August 1999	To permit minor modifications to the enclosure and machined components, internal electronics and label material. Introduction of alternative cover screw material and associated special condition for safe use. No report
BAS98ATEX2165X/3	13 September 2000	To permit the introduction of an alternative front cover/window assembly. The associated assessment is documented in test report 00(C)0380.
BAS98ATEX2165X/4	26 June 2002	To introduce an alternative ½” NPT cable entry thread. No report.
BAS98ATEX2165X/5	14 February 2003	To allow minor modifications to the front cover to assist optical alignment. No report.
BAS98ATEX2165X/6	12 May 2005	To permit minor dimensional changes to the base of the enclosure. No report.
BAS98ATEX2165X/7	6 May 2008	To confirm the current design meets the requirements of EN 60079-0: 2006 and EN 60079-1: 2004. No report.

<b>Certificate No.</b>	<b>Date</b>	<b>Comments</b>
BAS98ATEX2165X/8	19 November 2009	To permit minor drawing modifications not affecting certification. The associated assessment is documented in test report GB/BAS/ExTR09.0143/00.
BAS98ATEX2165X/9	22 February 2011	To confirm that the current design meets the requirements of EN 60079-0: 2009 and EN 60079-1: 2007, including revision of the equipment marking in accordance with these standards. The associated assessment is documented in test report GB/BAS/ExTR11.0031/00.
BAS98ATEX2165X/10	8 September 2014	To introduce an alternative epoxy resin, Cedesa EP2132/C for the window cement, an alternative external paint finish and to clarify the material composition. The current design was also assessed against the requirements of IEC 60079-28: 2007. The associated assessment is documented in test report GB/BAS/ExTR14.0220/00.
BAS98ATEX2165X/11	17 February 2016	To confirm that the current design meets the requirements of EN 60079-0: 2012+A11: 2013, EN 60079-1: 2014 and EN 60079-28: 2015 and to permit a change in O-ring material for the weatherproof seal and additional minor drawing updated. The associated assessment is documented in test report GB/BAS/ExTR15.0327/00.
BAS98ATEX2165X Issue 12	31 March 2022	To confirm that the current design meets the requirements of EN IEC 60079-0: 2018. This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and includes minor revisions to the marking label details with the addition of UKCA marking. The associated assessment is documented in test report GB/BAS/ExTR21.0080/00.
For drawings applicable to each issue, see original of that issue.		