



EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : **BAS98ATEX2299X**

Equipment or Protective System: **SEARCHLINE EXCEL LONG RANGE INFRARED
TRANSMITTER UNIT**

Manufacturer: **ZELLWEGER ANALYTICS LTD**

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.

The Electrical Equipment Certification Service, notified body number 600 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 N°

BASEEFA Certification Report No. 98(C)0109 dated 26 October 1998

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

EN50014: 1997

EN50018: 1994

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. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

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



II 2 G

EEx d IIC T6 (T_{amb} = -40°C to +40°C) or T5 (T_{amb} = -40°C to +65°C)

This certificate may only be reproduced in its entirety and without any change, schedule included.

File No: EECS 0981/01/026

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



Electrical Equipment Certification Service
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom
Tel: 01298 28000 Fax: 01298 28244

I M CLEARE
DIRECTOR
4 November 1998



13

Schedule

14

EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX2299X

15

Description of Equipment or Protective System

The Searchline Excel Long Range Infrared Transmitter Unit is rated from 18V to 32V with a maximum power dissipation of 10 watts. The unit comprises 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 integral weather cowl. The cover is secured by 4 off M8 by 25mm long stainless steel socket head cap screws of grade A2-70.

The rear section incorporates integral connection cables and a female thread for connection to conduit and suitable terminal facilities. The cable entry at the rear of the enclosure is sealed with an inorganic sealing cement.

The interior of the enclosure contains a mirror assembly, a window heater, a flashlamp printed circuit board (PCB), a power supply PCB, an input/output PCB and a filter/connection PCB.

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

This apparatus is to be used as described in the Zellweger Technical Handbook No. MAN0530.PM6

This Certification is to European Directive 94/9/EC only, functional performance and compliance with other European Directives is the responsibility of the equipment manufacturer and/or the user as appropriate.

16

Report No.

BASEEFA Certification Report No. 98(C)0109

17

Special Conditions For Safe Use

1. The integral supply cables must be mechanically protected and terminated in a suitable terminal or junction facility.

18

Essential Health and Safety Requirements

Essential Health & Safety Requirements not covered by Standards listed at (9)		
Clause	Subject	Compliance
1.0.2	Analysis of possible operating faults	BASEEFA Report No. 98(C)0109
1.0.3	Special checking and maintenance conditions	Not applicable
1.0.6	Instructions	BASEEFA Report No. 98(C)0109
1.2.2	Components for incorporation or replacement	Not applicable



13

Schedule

14

EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX2299X

Clause	Subject	Compliance
1.2.4	Dust deposits	Not applicable
1.2.5	Additional means of protection	Not applicable
1.3.5	Hazards arising from pressure compensation	Not applicable
1.4.2	Withstanding attack by aggressive substances	BASEEFA Report No. 98(C)0109
1.5	General requirements for safety devices	Not applicable
1.6.1	Manual override	Not applicable
1.6.2	Emergency shutdown	Not applicable
1.6.3	Hazards arising from power failure	Not applicable
1.6.5	Placing of warning devices as parts of equipment	Not applicable
2.0	Category M	Not applicable
2.1	Category 1	Not applicable
2.2.1	Category 2G	BASEEFA Report No. 98(C)0109
2.2.2	Category 2D	Not applicable
2.3	Category 3	Not applicable
3	Requirements for protective Systems	Not applicable

19 DRAWINGS

Number	Issue	Date	Description
2104E0052	2	14.10.98	General Arrangement, Searchline Excel Long Range Infrared Transmitter Unit
2104E0057	2	14.10.98	Enclosure Detail, Casing
2104E0058	2	14.10.98	Enclosure Detail, Cover

This certificate may only be reproduced in its entirety and without any change, schedule included.

BASEEFA List Keywords
2GASDETE



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: **BAS98ATEX2299X/1**

4 Equipment or Protective System: **SEARCHLINE EXCEL LONG RANGE INFRARED
TRANSMITTER UNIT**

5 Manufacturer: **ZELLWEGER ANALYTICS LTD**

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

7 This supplementary certificate extends EC-Type Examination Certificate No. BAS98ATEX2299X 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.

This certificate may only be reproduced in its entirety and without any change, schedule included.

File No: EECS 0981/01/026

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



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Tel: 01298 28000 Fax: 01298 28244



I M CLEARE
DIRECTOR
10 August 1999



13

Schedule

14

EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX2299X/1

Description of the Variation to the Equipment or Protective System

VARIATION 1.1

Minor modifications to the internal electronics assembly and mounting, together with an increase to the maximum permitted surface finish of the machined parts.

VARIATION 1.2

Alternative label material.

Report No.

Not applicable.

SPECIAL CONDITIONS FOR SAFE USE

As original certificate.

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

Number	Issue	Date	Description
2104E0052	3	28.4.99	General Arrangement
2104E0057	3	7.6.99	Enclosure Detail, Casing
2104E0058	3	7.6.99	Enclosure Detail, Cover

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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: **BAS98ATEX2299X/2**

4 Equipment or Protective System: **SEARCHLINE EXCEL LONG RANGE INFRARED
TRANSMITTER UNIT**

5 Manufacturer: **ZELLWEGER ANALYTICS LTD**

6 Address: **Poole, Dorset, BH17 0RZ**

7 This supplementary certificate extends EC-Type Examination Certificate No. BAS98ATEX2299X 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.

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File No: EECS 0981/01/026

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PP I M CLEARE
DIRECTOR
26 June 2002



13

Schedule

14 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX2299X/2**

Description of the Variation to the Equipment or Protective System

VARIATION 2.1

Alternative ½" NPT cable entry thread.

Report No.

Not applicable.

Special Conditions For Safe Use

See original certificate.

Essential Health and Safety Requirements

See original certificate.

DRAWING

Number	Issue	Date	Description
2104E0057	4	14.05.02	Enclosure Detail, Casing

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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: BAS98ATEX2299X/3

**4 Equipment or Protective System: SEARCHLINE EXCEL LONG RANGE
INFRARED TRANSMITTER UNIT**

5 Manufacturer: ZELLWEGER ANALYTICS LTD

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

7 This supplementary certificate extends EC – Type Examination Certificate No. **BAS98ATEX2299X** 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa (2001) Ltd. Customer Reference No. **0981**

Project File No. **03/0161**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa (2001) Ltd.

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Derbyshire, SK17 9BJ

**R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.**



Schedule

13 Description of the variation to the Equipment or Protective System

Variation 5.1

Optional addition of mounting pads & locating pegs to the front cover in order to assist optical alignment

14 Report Number

None

15 Special Conditions for Safe Use

None additional to those listed previously

16 Essential Health and Safety Requirements

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

17 Drawings and Documents

Number	Issue	Date	Description
2104E0058	4	11.02.03	Enclosure Detail, Front Cover



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: **BAS98ATEX2299X/4**

4 Equipment or Protective System: **SEARCHLINE EXCEL LONG RANGE
INFRARED TRANSMITTER UNIT**

5 Manufacturer: **ZELLWEGER ANALYTICS LTD**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. **BAS98ATEX2299X** 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0981**

Project File No. **05/0337**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

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Registered in England No. 4305578 at the above address

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

14

Certificate Number BAS98ATEX2299X/4

15

Description of the variation to the Equipment or Protective System

Variation 4.1

Minor dimensional changes within the base of the enclosure casing.

16

Report Number

None

17

Special Conditions for Safe Use

None additional to those listed previously

18

Essential Health and Safety Requirements

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

19

Drawings and Documents

Number	Issue	Date	Description
2104E0057	5	12.05.05	Enclosure Detail, Casing



SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

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

- 3 Supplementary EC - Type Examination Certificate Number: **BAS98ATEX2299X/5**
- 4 Equipment or Protective System: **SEARCHLINE EXCEL LONG RANGE TRANSMITTER UNIT**
- 5 Manufacturer: **Honeywell Analytics Limited**
- 6 Address: **Hatchpond House, 4 Stinsford Lane, Nuffield Estate, Poole, Dorset, BH17 0RZ**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. BAS98ATEX2299X 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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Baseefa Customer Reference No. **0981**

Project File No. **06/0748**

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DIRECTOR
On behalf of
Baseefa (2001) Ltd.

Re-issued 3rd December 2009 to replace original



13

Schedule

14

Certificate Number BAS99ATEX2299X/5

15 Description of the variation to the Equipment or Protective System

Variation 5.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0: 2006 and EN60079-1: 2004 in respect of the differences from EN 50014: 1997 + Amendment 1 and 2, and EN50018: 2000 and that none of these differences affect this equipment.

16 Report Number

None

17 Special Conditions for Safe Use

None additional to those listed previously

18 Essential Health and Safety Requirements

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

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
2104E0052	1 of 1	4	01/05/08	Searchline Excel LR Transmitter.



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: BAS98ATEX2299X/6

4 Equipment or Protective System: SEARCHLINE EXCEL LONG RANGE TRANSMITTER UNIT

5 Manufacturer: Honeywell Analytics Limited

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

7 This supplementary certificate extends EC – Type Examination Certificate No. BAS98ATEX2299X 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa, Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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Baseefa Customer Reference No. **0981**

Project File No. **09/0586**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



13

Schedule

14

Certificate Number BAS98ATEX2299X/6

15 Description of the variation to the Equipment or Protective System

Variation 6.1

Minor modifications to drawing and label details not affecting certification.

16 Report Number

Baseefa Confidential Report No. GB/BAS/ExTR09.0163/00

17 Special Conditions for Safe Use

None additional to those listed previously.

18 Essential Health and Safety Requirements

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

19 Drawings and Documents

Number	Issue	Date	Description
2104E6052	1	09.10.09	General Arrangement, Long Range Transmitter
2104E6057	1	22.10.09	Casing
2104E6058	1	22.10.09	Window Holder

These drawings supersede all the previously listed drawings



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: **BAS98ATEX2299X/7**

4 Equipment or Protective System: **SEARCHLINE EXCEL LONG RANGE TRANSMITTER UNIT**

5 Manufacturer: **Honeywell Analytics Limited**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. **BAS98ATEX2299X** 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa, Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0981**

Project File No. **10/0078**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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pp R S SINCLAIR m. BOWNEY
DIRECTOR
On behalf of
Baseefa



13

Schedule

14

Certificate Number BAS98ATEX2299X/7

15 Description of the variation to the Equipment or Protective System

Variation 7.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0: 2009 and EN 60079-1: 2007 in respect of the differences from earlier issues and that any such differences have been satisfactorily addressed.

The marking is now modified as follows:-

Ex d IIC T6 ($T_{amb} = -40^{\circ}\text{C}$ to $+40^{\circ}\text{C}$) T5 ($T_{amb} = -40^{\circ}\text{C}$ to $+65^{\circ}\text{C}$) Gb

16 Report Number

Baseefa Certification Report GB/BAS/ExTR11.0031/00

17 Special Conditions for Safe Use

None additional to those listed previously

18 Essential Health and Safety Requirements

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

19 Drawings and Documents

Number	Issue	Date	Description
2104E6052	02	03.02.11	G.A. Searchline Excel Long Range Transmitter.

This drawing is common to, and held with, IECEx BAS09.0101X

SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

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

- 3 Supplementary EC - Type Examination Certificate Number: **BAS98ATEX2299X/8**
- 4 Equipment or Protective System: **SEARCHLINE Excel Long Range Infrared Transmitter**
- 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. BAS98ATEX2299X 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.
- 8 Item 9 of the original Certificate is replaced by “Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2009
EN 60079-1:2007
EN 60079-28:2007
- except in respect of those requirements listed at item 18 of the Schedule.”
- 9 The marking of the equipment has changed from the original Certificate and shall include the following:
**⊕ II 2G Ex d op is IIC T6 (Tamb = -40°C to +40°C) Gb or
Ex d op is IIC T5 (Tamb = -40°C to +65°C) Gb**

This certificate shall be held with the original certificate.

Baseefa Customer Reference No. **0981**

Project File No. **14/0446**

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R S Sinclair
R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

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Certificate Number Baseefa98ATEX2299X/8

15 Description of the variation to the Equipment or Protective System

Variation 8.1

Increase in the total maximum power dissipation from 10W to 15W.

Variation 8.2

An alternate epoxy resin, Cedesa EP2132/C, for the window cement.

Variation 8.3

Amended certification label to include 15W, and “op is” designation for IEC 60079-28.

Variation 8.4

An alternative 0.2mm maximum external paint finish as an option to the standard unpainted finish.

Variation 8.5

Clarification that the total magnesium, titanium and zirconium content is $\leq 7.5\%$ by mass.

Variation 8.6

Minor drawing and label changes.

16 Report Number

GB/BAS/ExTR14.0220/00

17 Specific Conditions of Use

1. The integral supply cables must be mechanically protected and terminated in a suitable terminal or junction facility
2. For replacement purposes the cover fixing screws shall be grade A2-70 minimum.

18 Essential Health and Safety Requirements

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

19 Drawings and Documents

Number	Issue	Date	Description
2104E6052 *	3	07.08.14	G.A. SEARCHLINE Excel Long Range Infrared Transmitter
2104E6057*	2	07.08.14	Casing-SEARCHLINE Excel Long Range Infrared Transmitter
2104E6058 *	02	07.08.14	Window Holder- SEARCHLINE Excel Long Range Infrared Transmitter

* These drawings are applicable to IECEx BAS09.0101X and BAS98ATEX2299X and held with the former