



1 **EC - TYPE EXAMINATION CERTIFICATE**

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

3 EC - Type Examination Certificate Number: **Baseefa06ATEX0007X**

4 Equipment or Protective System: **Orbis IS Series Fire Detectors**

5 Manufacturer: **Apollo Fire Detectors Limited**

6 Address: **36 Brookside Road, Havant, Hampshire, PO9 1JR, UK**

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

8 Baseefa (2001) Ltd., 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. 05(C)0414

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

**EN 60079-0:2004 EN 50020:2002 EN 60079-26:2004**

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 equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 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.

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

**⊕ II 1 G Ex ia IIC T4 (-40°C ≤ Ta ≤ +60°C) / T5 (-40°C ≤ Ta ≤ +40°C)**

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

Baseefa Customer Reference No. 0073

Project File No. 05/0414

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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Baseefa is a trading name of Baseefa (2001) Ltd  
Registered in England No. 4305576 at the above address

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



13

## Schedule

14

Certificate Number Baseefa06ATEX0007X

### 15 Description of Equipment or Protective System

The Orbis IS Series Fire Detectors are designed to detect the presence of fire using optical, heat (which may be static or rate of rise type) and multisensor (an optical sensor with a heat sensing element) techniques. Each type of detector shares a common printed circuit board located in a plastic enclosure which is fitted to a mounting base.

Electrical connections to external circuits are made to the terminals located in the mounting base.

A Base Adaptor may be used to install and use an Orbis IS Series Fire Detector in a pre-existing Series 60 installation.

$$\begin{array}{lcl} U_i & = & 28V \\ I_i & = & 93.3mA \\ P_i & = & 0.67W \end{array} \quad \begin{array}{lcl} C_i & = & 0 \\ L_i & = & 0 \end{array}$$

### 16 Report Number

05(C)0414

### 17 Special Conditions for Safe Use

1. To avoid problems with electrostatic charging of the enclosure, the equipment must not be located in a dust-laden airflow or cleaned with a dry cloth or with solvents.

### 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
400-HT-00011_CS SHT1_3 ✓	1 of 1	1 ✓	Jun 06	Heat Detector, Certificate Schedule
400-HT-00011_CS SHT2_3 ✓	1 of 1	1 ✓	Jun 06	Heat Detector, Certificate Schedule
400-HT-00011_CS SHT3_3 ✓	1 of 1	1 ✓	Jun 06	Heat Detector, Certificate Schedule
400-OH-00012_CS SHT1_3 ✓	1 of 1	1 ✓	Jun 06	Multisensor Detector, Certificate Schedule
400-OH-00012_CS SHT2_3 ✓	1 of 1	1 ✓	Jun 06	Multisensor Detector, Certificate Schedule
400-OH-00012_CS SHT3_3 ✓	1 of 1	1 ✓	Jun 06	Multisensor Detector, Certificate Schedule
400-OP-00013_CS SHT1_3 ✓	1 of 1	1 ✓	Jun 06	Optical Smoke Detector, Certificate Schedule
400-OP-00013_CS SHT2_3 ✓	1 of 1	1 ✓	Jun 06	Optical Smoke Detector, Certificate Schedule
400-OP-00013_CS SHT3_3 ✓	1 of 1	1 ✓	Jun 06	Optical Smoke Detector, Certificate Schedule
300-MA-00011_CS ✓	1 of 1	1 ✓	Jun 06	Timesaver Base, Certificate Schedule
400-BA-00014_CS ✓	1 of 1	1 ✓	Jun 06	Base Adaptor, Certificate Schedule



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: **Baseefa06ATEX0007X/1**

4 Equipment or Protective System: **Orbis IS Series Fire Detectors**

5 Manufacturer: **Apollo Fire Detectors Limited**

6 Address: **36 Brookside Road, Havant, Hampshire, PO9 1JR, UK**

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa06ATEX0007X 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, without any change, schedule included.

Baseefa Customer Reference No. 0073

Project File No. 06/0684

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**Baseefa**

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Baseefa is a trading name of Baseefa (2001) Ltd  
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 Baseefa06ATEX0007X/1

15 **Description of the variation to the Equipment or Protective System**

### Variation 1.1

To permit:

- a) minor changes to various safety components
- b) an alternative PCB layout.

16 **Report Number**

06(C)0684

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
400-HT-00011_CS SHT1_3 ✓	2 ✓	Aug 06	Orbis, Intrinsically Safe Heat Detector, Certificate Schedule
400-HT-00011_CS SHT2_3 ✓	2 ✓	Aug 06	Orbis, Intrinsically Safe Heat Detector, Certificate Schedule
400-HT-00011_CS SHT3_3 ✓	2 ✓	Aug 06	Orbis, Intrinsically Safe Heat Detector, Certificate Schedule
400-OH-00012_CS SHT1_3 ✓	2 ✓	Aug 06	Orbis, Intrinsically Safe Multisensor Detector, Certificate Schedule
400-OH-00012_CS SHT2_3 ✓	2 ✓	Aug 06	Orbis, Intrinsically Safe Multisensor Detector, Certificate Schedule
400-OH-00012_CS SHT3_3 ✓	2 ✓	Aug 06	Orbis, Intrinsically Safe Multisensor Detector, Certificate Schedule
400-OP-00013_CS SHT1_3 ✓	2 ✓	Aug 06	Orbis, Intrinsically Safe Optical Detector, Certificate Schedule
400-OP-00013_CS SHT2_3 ✓	2 ✓	Aug 06	Orbis, Intrinsically Safe Optical Detector, Certificate Schedule
400-OP-00013_CS SHT3_3 ✓	2 ✓	Aug 06	Orbis, Intrinsically Safe Optical Detector, Certificate Schedule

All drawings are common to, and held with, IECEx BAS06.0002X/1



**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: Baseefa06ATEX0007X/2**

**4 Equipment or Protective System: Orbis IS Series Fire Detectors**

**5 Manufacturer: Apollo Fire Detectors Limited**

**6 Address: 36 Brookside Road, Havant, Hampshire, PO9 1JR, UK**

**7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa06ATEX0007X 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 60079-11:2007**

**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 1 G Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +60°C) / T5 (-40°C ≤ Ta ≤ +40°C)**

This certificate shall be held with the original certificate and may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. 0073

Project File No. 11/0515

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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Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.

R S SINCLAIR  
DIRECTOR  
On behalf of  
Baseefa



13

## Schedule

14

Certificate Number Baseefa06ATEX0007X/2

### 15 Description of the variation to the Equipment or Protective System

#### Variation 2.1

To permit minor drawing changes that do not affect the original assessment.

#### Variation 2.2

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0:2006, and EN 60079-11:2007 in respect of the differences from EN 60079-0:2004 and EN 50020:2002 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
300-MA-00011_CS	1 of 1	2	Jul 11	Orbis, Intrinsically Safe Timesaver Base, Certificate Schedule
400-HT-00011_CS	1 – 3	3	Jul 11	Orbis, Intrinsically Safe Heat Detector, Certificate Schedule
400-OH-00012_CS	1 – 3	3	Jul 11	Orbis, Intrinsically Safe Multisensor Detector, Certificate Schedule
400-OP-00013_CS	1 – 3	3	Jul 11	Orbis, Intrinsically Safe Optical Detector, Certificate Schedule

These drawings are common to, and held with, IECEx BAS 06.0002X/2

Certificate Number  
Baseefa06ATEX0007X/3



Issued 30 August 2012  
Page 1 of 2

**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: Baseefa06ATEX0007X/3**

**4 Equipment or Protective System: Orbis IS Series Fire Detectors**

**5 Manufacturer: Apollo Fire Detectors Limited**

**6 Address: 36 Brookside Road, Havant, Hampshire, PO9 1JR, UK**

**7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa06ATEX0007X 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, without any change, schedule included.

Baseefa Customer Reference No. 0073

Project File No. 12/0446

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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Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.



**B.S. SINCLAIR**  
DIRECTOR  
On behalf of  
Baseefa



13

## Schedule

14

Certificate Number Baseefa06ATEX0007X/3

### 15 Description of the variation to the Equipment or Protective System

#### Variation 3.1

To permit minor drawing changes that do not affect the original assessment.

### 16 Report Number

None.

### 17 Specific Conditions of 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
400-BA-00014_CS	1 of 1	2	Oct 11	Orbis, Intrinsically Safe Base Adaptor, Certificate Schedule



1 **EC - TYPE EXAMINATION CERTIFICATE**

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

4 EC - Type Examination Certificate Number: **Baseefa06ATEX0007X – Issue 4**

5 Equipment or Protective System: **Orbis IS Series Fire Detectors**

6 Manufacturer: **Apollo Fire Detectors Limited**

7 Address: **36 Brookside Road, Havant, Hampshire, PO9 1JR, UK**

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

9 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's. See Certificate History

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

**EN 60079-0:2012 EN 60079-11:2012**

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

11 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.

12 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.

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

 **II I G Ex ia IIC T4 (-50°C ≤Ta ≤+60°C) / T5 (-50°C ≤Ta ≤+40°C) Ga**

Baseefa Customer Reference No. **0073**

Project File No. **14/0988**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/cn/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.baseefa.com/terms-and-conditions.asp>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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Registered in England No. 4305578.

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R S SINCLAIR  
GENERAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa06ATEX0007X – Issue 4**

15 **Description of Equipment or Protective System**

The Orbis IS Series Fire Detectors are designed to detect the presence of fire using optical, heat (which may be static or rate of rise type) and multisensor (an optical sensor with a heat sensing element) techniques. Each type of detector shares a common printed circuit board located in a plastic enclosure which is fitted to a mounting base.

Electrical connections to external circuits are made to the terminals located in the mounting base.

A Base Adaptor may be used to install and use an Orbis IS Series Fire Detector in a pre-existing Series 60 installation.

$$\begin{array}{lcl} U_i & = & 28V \\ I_i & = & 93.3mA \\ P_i & = & 0.67W \end{array} \quad \begin{array}{lcl} C_i & = & 0 \\ L_i & = & 0 \end{array}$$

16 **Report Number**

GB/BAS/ExTR15.0059/00

17 **Specific Conditions of Use**

1. To avoid problems with electrostatic charging of the enclosure, the equipment must not be located in a dust-laden airflow or cleaned with a dry cloth or with solvents.

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**

New drawings submitted for this issue of certificate.

Number	Sheet	Issue	Date	Description
400-HT-00011_CS	1 – 3	4	Jan 15	Orbis, Intrinsically Safe Heat Detector
400-OH-00012_CS	1 – 3	4	Jan 15	Orbis, Intrinsically Safe Multisensor Detector
400-OP-00013_CS	1 – 3	4	Jan 15	Orbis, Intrinsically Safe Optical Detector

Current drawings also associated with this certificate.

Number	Sheet	Issue	Date	Description
300-MA-00011_CS	1 of 1	2	Jul 11	Orbis, Intrinsically Safe Timesaver Base
400-BA-00014_CS	1 of 1	2	Oct 11	Base Adaptor

All drawings are common to, and held with, IECEx BAS 06.0002X Issue 3.

20 Certificate History

Certificate No.	Date	Comments
Baseefa06ATEX0007X	30 June 2006	The release of the prime certificate. The associated test and assessment is documented in Test Report No. 05(C)0414
Baseefa06ATEX0007X/1	31 August 2006	To permit minor changes to various safety components and an alternative PCB layout. Test Report No. 06(C)0684.
Baseefa06ATEX0007X/2	8 July 2011	To permit minor drawing changes and to confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0:2006, and EN 60079-11:2007 in respect of the differences from EN 60079-0:2004 and EN 50020:2002 and that none of these differences affect this equipment. Project File No. 11/0515.
Baseefa06ATEX0007X/3	30 August 2012	To permit minor drawing changes that do not affect the original assessment. Project File No. 12/0446.
Baseefa06ATEX0007X Issue 4	23 February 2015	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate, permits a change to the lower ambient temperature (now -50°C) and confirms the current design meets the requirements of EN 60079-0: 2012 & EN 60079-11: 2012. The marking is already in accordance with these standards. Test Report No. GB/BAS/ExTR15.0059/00. Project File No. 14/0988.
For drawings applicable to each issue, see original of that issue.		