



EC - TYPE EXAMINATION CERTIFICATE

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

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

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

Manufacturer: **Apollo Fire Detectors Limited**

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

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 (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

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.

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 :

Ex 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. 4305578 at the above address

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



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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.

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

16 Report Number

05(C)0414

17 Special Conditions for Safe Use

- 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

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.

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DIRECTOR
On behalf of
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Schedule

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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-IJT-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 SIIT1_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

Certificate Number
Baseefa06ATEX0007X/2



Issued 8 July 2011
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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: **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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DIRECTOR
On behalf of
Baseefa



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Schedule

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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-OII-00011_CS	1 - 3	3	Jul 11	Orbis, Intrinsically Safe Multisensor Detector, Certificate Schedule
400-OP-00011_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