

EC Type Examination Certificate

Notified Body 0729

This is to certify that ABS Europe Ltd., as a Notified Body under the authorization of UK MCA by Merchant Shipping Equipment Regulation, SI 1999, Number 1957 and M Notice Number 1734, as amended, did undertake the relevant type examination procedure of the product listed and same was found to be in compliance with the provisions of these Regulations and EU Directive 96/98/EC of 20 December 1996 as amended by EU Directive

2009/26/EC

ANNEX A.1 ITEM NUMBER: A.1/3.51

CERTIFICATE NUMBER: 11-LD792467-EC4

APPLICANT: Apollo Fire Detectors Ltd.

PLANT LOCATION: Hampshire, UK

PORT OFFICE: Southampton, UK

PRODUCT DESIGNATION: Fixed fire detection and fire alarm system components
Model: Apollo Orbis Conventional Range of Intrinsically Safe Smoke/Heat Detectors, Manual Call Points and Accessories.

STANDARDS AND REGULATIONS: Regulation II-2/7 of SOLAS 74 as Amended

IMO Resolution MSC98(73)- (FSS Code) Chapter 9

EN 54-5(2000) including A1 (2002), EN 54-7 (2000) including A1 (2002) and including A1(2006) & EN54-11(2001) including A1 (2005),

THIS CERTIFICATE IS ISSUED IN COMPLIANCE WITH CONFORMITY ASSESSMENT **MODULE B** OF THE REGULATIONS AND DIRECTIVES LISTED ABOVE.

ISSUE DATE: 21 July 2011

EXPIRATION DATE: 06 July 2016

SIGNATURE:  S.C. Sexstone

Should the specified regulations or standards be amended during the validity of this certificate, the products are to be re-approved prior to being placed on board vessels to which the amended regulations or standards apply.

This "Mark of Conformity" may only be affixed to the above equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase Module (D, E or F) of Annex B of the Directive is fully complied with and controlled by a written agreement with a Notified Body.

The attached document list forms part of this Certificate.

This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. ABS Europe Ltd. is a Notified Body under the authorization of UK MCA by Merchant Shipping Equipment Regulation, SI 1999, No. 1957 and M Notice No. 1734, as amended. Compliance with the provisions laid down in EU Directive 96/98/EC of 20 December 1996, as amended, will be determined as governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

ECTEC (rev 3 01/10)

Certificate No.: 11-LD792467-EC4

Entry Date: 21 July 2011

**Name of Equipment/
Component Manufacturer:** Apollo Fire Detectors Ltd.
36 Brookside Road
Havant
Hampshire
England
PO9 1JR

Tel: +44-2392-492-412
Fax: +44-2392-492-754
Website: www.apollo-fire.co.uk

Equipment/Component: Fire Detection System

Model: Apollo Orbis Conventional Range of Intrinsically Safe Smoke/Heat Detectors and Accessories

Description: The Orbis IS range detectors are microprocessor based conventional fire detection units with standard IS (time-saving) electronic-free bases comprising optical smoke detectors, multisensor smoke detectors and heat detectors. The following part numbers and classifications are included in the range:

- ORB-BA-50008-APO Adaptor Base
- ORB-HT-51145-APO Class A1R Heat Detector with SensAlert/FasTest
- ORB-HT-51146-APO Class A1R Heat Detector with Flashing LED/SensAlert/FasTest
- ORB-HT-51147-APO Class A2S Heat Detector with SensAlert/FasTest
- ORB-HT-51148-APO Class A2S Heat Detector with Flashing LED/SensAlert/FasTest
- ORB-HT-51149-APO Class BR Heat Detector with SensAlert/FasTest
- ORB-HT-51150-APO Class BR Heat Detector with Flashing LED/SensAlert/FasTest
- ORB-HT-51151-APO Class BS Heat Detector with SensAlert/FasTest
- ORB-HT-51152-APO Class BS Heat Detector with Flashing LED/SensAlert/FasTest
- ORB-HT-51153-APO Class CR Heat Detector with SensAlert/FasTest
- ORB-HT-51154-APO Class CR Heat Detector with Flashing LED/SensAlert/FasTest
- ORB-HT-51155-APO Class CS Heat Detector with SensAlert/FasTest
- ORB-HT-51156-APO Class CS Heat Detector with Flashing LED/SensAlert/FasTest
- ORB-HT-51157-APO Class A1S Heat Detector with SensAlert/FasTest
- ORB-HT-51158-APO Class A1S Heat Detector with Flashing LED/SensAlert/FasTest
- ORB-MB-50018-APO Timesaver Base
- ORB-OH-53027-APO Multisensor Smoke Detector with SensAlert/FasTest/DirtAlert
- ORB-OP-52027-APO Optical Smoke Detector with SensAlert/FasTest/DirtAlert
- ORB-OP-52028-APO Optical Smoke Detector with Flashing LED/SensAlert/FasTest/DirtAlert
- ORB-OH-53028-APO Multisensor Smoke Detector with Flashing LED/SensAlert/FasTest/DirtAlert

Intended Service: Conventional fire detection systems for marine and offshore applications in machinery and accommodation spaces

Ratings: Nominal voltage: 14 to 24V DC (non-polarised); Ingress protection: IP44;
IS Certification: 06ATEX0007X;
Operating temperature: - 40C to 70C;
Classification: II 1G Ex ia IIC T5 or T4;
Certification: BASEEFA 06 ATEX 0007X and IECEx BAS 06.0002X



Comments:

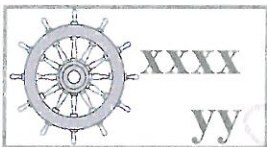
Tests and approval are for hardware only. Each configuration and external connection is to be specifically approved.

Approved in accordance with the Fire protection equipment requirements for fixed fire detection and fire alarm systems components – Flame detectors item A.1/3.51 of the European Union Marine Equipment Directive 96/98/EC as Amended by Directive 2009/26/EC.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the Notified Body named on this certificate.

The “Mark of Conformity” may only be affixed to the above equipment and a Manufacturer’s Declaration of Conformity issued when the production-control phase module (D, E or F) of Annex B of the Directive is fully complied with and controlled by a written agreement with a Notified Body.

Example for the application of the "Mark of Conformity":



0729

Number of the Notified Body responsible for the quality surveillance module.

11

Last two digits of the year in which the mark is affixed.

Drawing Schedule:

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|--|---|
| 11-LD766034C-PDA | PRODUCT DESIGN ASSESSMENT |
| 07(C) 0078 - ORBIS IS | BASEEFA CERTIFICATION REPORT - ORBIS IS FIRE DETECTION SYSTEM |
| 0832-CPD-0843 ISS 1 - 55000-720 20D NEGATIVE SHORT CIRCUIT ISOLATOR | 0832-CPD-0843 ISS 1 - 55000-720 20D NEGATIVE SHORT CIRCUIT ISOLATOR |
| PP2250/2006/ISSUE 1 | ORBIS INTRINSICALLY SAFE PRODUCT GUIDE |



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