

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 2014/93/EU

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

CERTIFICATE NUMBER: 11-LD792467-1-EC3

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 Flame/Smoke/Heat Detectors and Accessories.

STANDARDS AND REGULATIONS: Regulation II-2/7 and X/3 of SOLAS 74 as Amended
IMO Resolution MSC.98(73)- (FSS Code) Chapter 9
EN 54-5 (2000) including A1(2002), EN 54-7 (2000) including A1(2002) and A2(2006), & EN 54-10 (2002) including A1(2005)

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

ISSUE DATE: 16 Sep 2015

EXPIRATION DATE: 15 Sep 2020

SIGNATURE:



S. Balakan

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.

Certificate No.: 11-LD792467-1-EC3

Entry Date: 16 Sep 2015

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

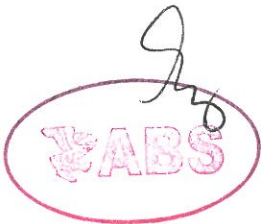
Tel: +44-2392-492-412
Fax: +44-2392-492-754
Website: www.apollo-fire.co.uk

Equipment/Component: Fire Detection System

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

Description: The Orbis range detectors are microprocessor based conventional fire detection units comprising:

ORB-HT-41001-MAR Class A1R Heat Detector with SensAlert/FasTest
ORB-HT-41002-MAR Class A2S Heat Detector with SensAlert/FasTest
ORB-HT-41003-MAR Class BR Heat Detector with SensAlert/FasTest
ORB-HT-41004-MAR Class BS Heat Detector with SensAlert/FasTest
ORB-HT-41005-MAR Class CR Heat Detector with SensAlert/FasTest
ORB-HT-41006-MAR Class CS Heat Detector with SensAlert/FasTest
ORB-HT-41013-MAR Class A1R Heat Detector with Flashing LED/SensAlert/FasTest
ORB-HT-41014-MAR Class A2S Heat Detector with Flashing LED/SensAlert/FasTest
ORB-HT-41015-MAR Class BR Heat Detector with Flashing LED/SensAlert/FasTest
ORB-HT-41016-MAR Class BS Heat Detector with Flashing LED/SensAlert/FasTest
ORB-HT-41017-MAR Class CR Heat Detector with Flashing LED/SensAlert/FasTest
ORB-HT-41018-MAR Class CS Heat Detector with Flashing LED/SensAlert/FasTest
ORB-MB-00001-MAR Timesaver Base
ORB-OH-43001-MAR Multisensor Smoke Detector with SensAlert/FasTest/DirtAlert
ORB-OH-43003-MAR Multisensor Smoke Detector with Flashing LED/SensAlert/FasTest/DirtAlert
ORB-OP-42001-MAR Optical Smoke Detector with SensAlert/FasTest/DirtAlert
ORB-OP-42003-MAR Optical Smoke Detector with Flashing LED/SensAlert/FasTest/DirtAlert
ORB-RB-40004-MAR Relay Base
55000-026-MAR UV Flame Detector



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

Ratings:

Smoke/Heat Detectors Nominal voltage: 8.5 to 33V DC (non-polarised);
 Operating temperature: -40 C to 70 C;
 Ingress protection: IP44
 Flame Detector 55000-026MAR
 Nominal voltage 12 to 33 V DC;
 Operating temperature -40 °C to 55 °C;
 Sensitivity selectable Class 1 (default) or Class 3;
 Operating range 25 m for 0.1 m² n-heptane fire;
 Field of View 90 degree cone

Comments:

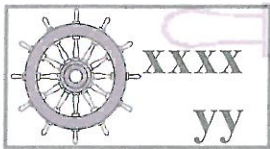
Tests and approval are for hardware only. Each configuration and external connection is to be specifically approved.

Approved in accordance with the Fire protection equipment requirements for fixed fire detection and fire alarm systems components – item A.1/3.51 of the European Union Marine Equipment Directive 96/98/EC as Amended by Directive 2014/93/EU.

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":



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Number of the Notified Body responsible for the quality surveillance module.
 Last two digits of the year in which the mark is affixed.

Drawing Schedule:

15-LD1416537-PDA	PRODUCT DESIGN ASSESSMENT
38531-902_8	IS OPTICAL ORBIS CHAMBER
38531-969_4	ORBIS OPTICAL CHAMBER
P101167-1001	EN 54-7 TEST REPORT
PP2250/2006/ISSUE 1	ORBIS INTRINSICALLY SAFE PRODUCT GUIDE
PP2147 2010 ISSUE 4	ORBIS PRODUCT GUIDE

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