



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 Regulations 2016, S.I. 2016 Number 1025 and MSN 1874 (M+F), as amended, did undertake the relevant type approval procedures for the equipment identified below and same was found to be in compliance with the provisions of these Regulations and EU Marine Equipment Directive 2014/90/EU of 18th September 2016.

ITEM NUMBER: MED/3.51(c),(d),(e)

IMPLEMENTING REGULATIONS (EU) 2018/773

CERTIFICATE NUMBER: 11-LD792467-5-EC3

APPLICANT: Apollo Fire Detectors Ltd

APPLICANT LOCATION: Hampshire, UK

PORT OFFICE: Southampton, UK

PRODUCT DESIGNATION: Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces
Heat detectors - Point detectors, MED/3.51(c); Smoke Detectors - Point detectors MED/3.51(d); Flame Detectors - Point Detectors, MED/3.51(e);

STANDARDS AND REGULATIONS: SOLAS 74 Reg. II-2/7; SOLAS 74 Reg. X/3; IMO Res. MSC.98(73)-(FSS Code)9;
IMO Res.MSC.36(63)-(1994 HSC Code) 7; IMO Res.MSC.97(73)-(2000 HSC Code) 7;
IMO Res.MSC.391(95)-(IGF Code) 11; IMO MSC.1/Circ.1242;
EN 54-5 (2000) including A1(2002), EN 54-5 (2017), EN 54-7 (2000) including A1(2002) and A2(2006) & EN 54-10 (2002) including A1(2005);
IEC 60092-504 (2016), IEC 60533 (2015)

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

ISSUE DATE: 30 August 2019

EXPIRATION DATE: 31 August 2022

SIGNATURE: N. Tyagi

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 II 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-LD792467-5-EC3

Entry Date: 30 August 2019

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

Tel: +44-2392-492-412
Email: chris.ellis@apollo-fire.com
Website: www.apollo-fire.co.uk

Equipment/Component: Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces

- Heat Detectors, MED/3.51(c);
- Smoke Detectors, MED/3.51(d);
- Flame Detectors MED/3.51(e);

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
- 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;
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

Standards: European Union Marine Equipment Directive 2014/90/EU
referencing testing requirement of implementing regulations (EU) 2018/773

IMO Res.MSC.36(63)-(1994 HSC Code) 7;
IMO Res.MSC.97(73)-(2000 HSC Code) 7;
IMO Res.MSC.98(73)-(FSS Code) 9;
IMO Res.MSC.391(95)-(IGF Code) 11;
IMO MSC.1/Circ.1242;
SOLAS 74 Reg. II-2/7;
SOLAS 74 Reg. X/3
IEC 60092-504:2016;
IEC 60533:2015;
EN 54-5 (2000) including A1(2002), EN 54-5 (2017);
EN 54-7 (2000) including A1(2002) and A2(2006);
EN 54-10 (2002) including A1(2005);

Service Restrictions/Limitations: Ex-certification is not covered by this certificate. Application or installation in hazardous area to be approved in each case according to Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Comments: 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 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" shall be affixed to the above equipment in line with the requirements of Directive 2014/90/EU Articles 9 & 10.

A Manufacturer's Declaration of Conformity shall be compiled and distributed in line with the requirements of Directive 2014/90/EU Article 16.

Drawing Schedule:

Drawing No	Description
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
TL18048A	TEST REPORT – PHASE 1 SYSTEM A
1041 IR	TEST REPORT EUOFINS HURSLEY LTD. DATED 12 APR 2019

