

# Confirmation of Product Type Approval

Company Name: APOLLO FIRE DETECTORS LIMITED

Address: 36 BROOKSIDE ROADHAVANT PO9 1JR United Kingdom

Product: Fire Detector

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

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	20-1966606-PDA	09-APR-2020	08-APR-2025
Manufacturing Assessment (MA)	20-4185318	10-MAR-2020	09-MAR-2025
Product Quality Assurance (PQA)	NA	NA	NA

# Tier

## 3

# **Intended Service**

For use on ABS Classed Vessels and Offshore Facilities in accordance with the listed ABS Rules, International and National Standards.

# 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

## Ratings

Smoke/Heat Detectors

Nominal voltage: 8.5 to 33V DC (non-polarised);

Operating temperature: -40C to 70C;

Ingress protection: IP44

Flame Detector 55000-026MAR

Nominal voltage 12 to 33V DC;

Operating temperature -40C to 55C

Sensitivity selectable Class 1 (default) or Class 3

Operating range 25m for 0.1m2 n-heptane fire

Field of View 90 degree cone

#### **Service Restrictions**

Unit Certification is not required for this product.

If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. Not suitable for hazardous area applications.

#### Comments

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

ATEX certified equipment is not to be installed in hazardous areas on U.S. Flagged Vessels, unless it can be proven to have been tested to the IEC 60079 series standards by an independent laboratory accepted by the U.S. Coast Guard. USCG MI Notice 01-12 (February 7, 2012).

## Notes, Drawings and Documentation

Drawing No. 18R110 ER, Test Report, Revision: 1, Date: 25-Mar-2018, Hursley EMC, Pages: 72

Drawing No. TL18051A, Test Report, Date: 17-Jul-2018, Mariner Systems, Revision: 1, Pages: 105

#### **Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 08/Apr/2025 or until the Rules

and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

## **ABS Rules**

- Marine Vessel Rules (2020): 1-1-4/7.7, 1-1-A3&A4, 4-7-3/11.3.3a)ii; 4-7-3/11.3.3a)iii; 4-7-3/11.3.3a)v;
- Facilities on Offshore Installations (2020): 1-1-4/9.7, 1-1-A2&A3;
- Mobile Offshore Units (2020): 1-1-4/9.7, 1-1-A2&A3, 4-1-1/7.9, 4-3-1/11, 6-1-1/9, 6-1-1/13;
- Steel Vessels for Service on Rivers and Intracoastal Waterways (2020): 1-1-4/7.7, 1-1-A3&A4;
- High Speed Crafts (2020): 1-1-4/11.9, 1-1-A2&A3, 4-6-1/11, 4-7-9/7, 4-7-9/15;
- Steel Barge Rules (2020): 1-1-4/7.9, 1-1-A3&A4;

### **International Standards**

IMO FSS Code 2015 Edition, Chapter 9 rules 2.3.1.1; 2.3.1.2; 2.3.1.3

#### **EU-MED Standards**

Approved in accordance with the Fire protection equipment requirements for fixed fire detection and fire alarm systems components – item MED/3.51 of the European Union Marine Equipment Directive 2014/90/EU

National Standards EN 54-7:2018

Government Standards NA

Other Standards



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ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.