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/3.51d
IMPLEMENTING REGULATIONS	(EU) 2019/1397
CERTIFICATE NUMBER:	20-1986297-EC
APPLICANT:	Apollo Fire Detectors Limited
APPLICANT'S LOCATION:	36 Brookside Road,Havant,Hampshire,England,United Kingdom,PO9 1JR
PORT OFFICE:	Southampton, UK
PRODUCT DESIGNATION:	Fixed fire detection and fire alarm systems components - Smoke Detectors Model: 58000-500MAR Discovery Marine Ionisation Smoke Detector 55000-640 XP95 I.S. Optical Smoke Detector
STANDARDS AND REGULATIONS:	Regulations II – 2/7 and X/3 of SOLAS 74 as Amended IMO Res.MSC.98(73)-(FSS Code) 9. IMO Res.MSC.97(73)-(2000 HSC Code) 7, IMO Res.MSC.36(63)-(1994 HSC Code) 7, IMO Res.MSC.391(95)-(IGF Code) 11, and MSC.1/Circ.1242 EN54-7(2018), IEC 60092-504 (2016) and IEC 60533 (2015)

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

ISSUE DATE: 20 April 2020 EXPIRATION DATE: 16 April 2025

SIGNATURE: Nitin 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.

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 2016, No. 1025 and MSN 1874 (M+F), as amended. Compliance with the provisions laid down in EU Directive 2014/90/EU, will be determined as governed by the terms and conditions as contained in EU MED application form – CLS-JBA-00131.

Maritime & Coastguard Agency

Notified Body authorised by the MCA

Certificate No.:	**20-1986297-EC**
Entry Date:	**20 April 2020**
Name of Equipment/ Manufacturer:	**Apollo Fire Detectors Limited** **36 Brookside Road, Havant, Hampshire, England, United Kingdom, PO9 1JR** **Tel: +44-2392-442875** **Email: chris.ellis@apollo-fire.com** **Website: www.apollo-fire.co.uk**
Equipment/Component:	**Fixed fire detection and fire alarm systems components - Smoke Detectors**
Model:	**58000-500MAR Discovery Marine Ionisation Smoke Detector, 55000-640 XP95 I.S. Optical Smoke Detector**
Description:	**Marine Ionisation Smoke Detector and I.S. Optical Smoke detector for use on marine vessels and offshore installations**
Intended Service:	**Smoke detectors for monitoring for a fire situation installed in marine and offshore structures**
Ratings:	**58000-500MAR Discovery Marine Ionisation Smoke Detector** **Operating voltage: 17 to 28V DC** **Operating temperature: -30°C to 70°C** **Quiescent current: 300 µA** **Ingress Protection: IP44** **55000-640 XP95 I.S. Optical Smoke Detector** **Supply voltage: 14 to 22V DC** **Operating temperature: -20C to +60°C** **Quiescent current: 340 µA** **Ingress Protection: IP23**
Standards:	**European Union Marine Equipment Directive 2014/90/EU referencing testing requirement of implementing regulations (EU) 2019/1397** **Regulations II-2/7 and X/3 of SOLAS 74 as Amended,** **IMO Resolution MSC. 98(73)-(FSS Code) Chapter 9** **IMO Resolution MSC.391(95)-(IGF Code) 11,** **MSC. 36(63)-(1994 HSC Code) Chapter 7** **MSC. 97(73)-(2000 HSC Code) Chapter 7** **IMO MSC.1/Circ.1242, EN54-7 (2018), IEC 60092-504 (2016), IEC 60533 (2015)**
Service Restrictions/Limitations:	**Ex-certification is not covered by this certificate. Application or installation in hazardous areas to be approved in each case according to the 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.
A Manufacturer's Declaration of Conformity shall be compiled and distributed in line with the requirements of Directive 2014/90/EU Article 16.
The Mark of Conformity may only be affixed to the above type approved 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 inspection agreement with a notified body.

Revisions: **NA**

Drawing Schedule:

Drawing No	Description
20-1981073-PDA	PRODUCT DESIGN ASSESSMENT
TE-OPP001688	BRE Test Report Mod
TE-P105641-1001	New EMC 58000-500
TE-P111208	BRE Test Report 58000-500 Mod
1041 IR	Hursley Test Report - Add EMC testing 58000-500 +
1488 IR	Hursley Test Report - Add EMC testing 55000-640
TL18050 A_Iss 1	MS Testing - Add marine testing 58000-500
TL18049A	MS Testing - Add marine testing 55000-640
38532-138_1	58000-500 Ionisation Support
43781-700_9	58000-500 PCB Assembly
58000-500_2	58000-500 General Assembly
58000-500-b_19	58000-500 Build Standard
38532-160_1	55000-640 PCB Cover
43781-237_15	55000-640 PCB Assembly
55000-640_5	55000-640 General Assembly
55000-640_b_33	55000-640 Build Standard
Gap analysis	Gap analysis
BRE letter	BRE letter (58000-500 and 55000-640) EN 54-7:2018 revised
BAS02ATEX1289X	Ex Certificate
104274606LHD-001a 58000-500	Conducted and radiated Emission 58000-500
104274606LHD-001b 55000-640	Conducted and radiated Emissions 55000-640
55000-640CD	Circuit Diagram
PP5027	XP95 I.S. Optical Smoke Detector Datasheet
PP5002	Discovery Marine Ionisation Smoke Detector Datasheet
IP Test Report 9089-8	IP Test Report 58000-500MAR IP44
55000-640	IP Rating justification on 55000-640
58000-500CD	Circuit Diagram