



Marine & Offshore

Certificate number: 12242/E0 BV

File number: AP 3470

Product code: 3782H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

APOLLO FIRE DETECTORS LIMITED

Havant - UNITED KINGDOM

for the type of product

SMOKE FIRE DETECTORS

Discovery Series

Ionisation Smoke Detector 58000-500 MAR

Optical Smoke Detector 58000-600 MAR

Multisensor Detector 58000-700 MAR

Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships.

EN 54-7: 2018,

EN 54-5: 2017 + A1: 2018.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 09 Nov 2028

For Bureau Veritas Marine & Offshore,

At BV LONDON, on 09 Nov 2023,

Spencer Yule

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=pdad6bqsla>

BV Mod. Ad.E 530 June 2017

This certificate consists of 4 page(s)

3. TEST REPORTS:**Apollo:**

Test report No. 1660.0 dated 25/03/2003
 Test report No. 1659.0 dated 26/03/2003.

LPC:

Test report No. TE 90374 dated 30/Dec./1998
 Test report No. TE 90371 dated 16/April/1999
 Test report No. TE 90373 dated 29/Dec./1998
 Test report No. TE 93009 dated 12/Oct./1999
 Test report No. TE 209309 dated 23/May/2002
 Test report No. TE 236936 dated 26/Nov./2007
 Test report No. TE 238037 dated 28/Jan./2008
 Test report No. TE 301792 dated 9/June/2015
 Test report No. TE 260875 dated 9/March/2011.

BRE:

Test report No. TE P111208 Issue 1 dated 22/06/2018.
 Test report No. TE-P105641-100 Rev.1, dated 02 Sep. 2022

eurofins:

EMC Test report No. 1278 CR, dated 30-05-2019.
 EMC Test report No. 1861 CR, dated 29-01-2020.
 EMC Test report No. 1041 IR, dated 12-04-2019.
 EMC Test report No. 18R110 ER, dated 26-03-2018.

4. APPLICATION / LIMITATION:

- 4.1 - BUREAU VERITAS Rules and Regulations for the Classification of Steel Ships.
 4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
 4.3 - Approval also valid for ships having to comply with SOLAS 74 Convention, as amended, and for units having to comply with IMO Resolution A1023 (The "MODU Code").
 4.4 - The Associated fire alarm central unit used with the above equipment (cf. clause 1) shall be Type Approved.
 4.5 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone.
 4.6 - The detectors are not to be used in hazardous areas.
 4.7 - The complete installation design showing the location of the detectors should be submitted to the Society's Surveyors for approval.
 4.8 - Satisfactory performance tests should be witnessed on each installation by the Society's Surveyor after installation on board.
 4.9 - An instruction manual covering operation, maintenance and testing should be placed on board each ship fitted with this Unit.
 4.10 - Only Hardware and Firmware / Software successfully tested together in compliance with the rules and regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.
 4.11 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 8.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The **Discovery 58000-500/600/700 MAR** Smoke Detectors are to be supplied by **APOLLO FIRE DETECTORS LIMITED** in accordance with the type(s) described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.
 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.
 5.3 - **APOLLO FIRE DETECTORS LIMITED** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.
 5.4 - For information, **APOLLO FIRE DETECTORS LIMITED** has declared to Bureau Veritas the following production site(s):

APOLLO FIRE DETECTORS LIMITED
36 Brookside Road
Havant
Hampshire
UNITED KINGDOM

6. MARKING OF PRODUCT:

- Maker's name or trade mark.
- Serial number of the units.
- Equipment type number or model identification under which it was type-tested.
- According to EN 54-5 and / or EN 54-7.

7. OTHERS:

7.1 - It is **APOLLO FIRE DETECTORS LIMITED**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate n° 12242/D2 BV issued on 30 May 2023 by the Society.

*** END OF CERTIFICATE ***