



Marine & Offshore

Certificate number: 07434/F0 BV

File number: AP 1923

Product code: 3782H

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

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**APOLLO FIRE DETECTORS LIMITED**

Havant - UNITED KINGDOM

*for the type of product*

**SMOKE FIRE DETECTORS**

XP 95 Intrinsically Safe Optical Smoke detector

Model: 55000-640.

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships,  
EN 54-7(2000) incl. A1(2002) and A2(2006),  
EN 60079-0 (2012) incl./A11 (2013) and EN 60079-11 (2012).

*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: 05 Jul 2026**

**For Bureau Veritas Marine & Offshore,**

At BV LONDON, on 05 Jul 2021,

Spencer Yule



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](http://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.veristarpm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=eqfib7xft3>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

- Product model or type designation :  
**APOLLO XP 95**

- Product description:  
Addressable Intrinsically Safe Optical Smoke Detector.

#### **Features:**

Part Number : 55000-640  
Principle : Point Detector using scattered light  
Transmitting Protocol : Open Digital Protocol  
Nominal Threshold Value : 0.12 dB/m according to EN 54-7  
Working Temperature : -20°C to +60°C  
Protection Index : IP 23D  
Ex Marking : Ex ia IIC T5 Ga (-20°C≤Ta≤+45°C) or Ex ia IIC T4 Ga (-20°C≤Ta≤+60°C)  
Power Supply : 24 VDC (17 to 28 VDC)

### 2. DOCUMENTS AND DRAWINGS:

According to drawings filed in AP 1923.

#### **Apollo Fire Detectors Ltd.:**

- IR LED in Close Proximity to Optical Housing, dated Dec 15, 2014
- Drawing Wiper Contact Series 60 & XP95 No. 32411-353 Iss.2, dated Oct 2012
- Drawing 60 & XP95 Optical Chamber No. 38531-780 Iss.2B, dated Mar 2000
- Drawing Address Key XP95 No. 38531-782 Iss.4, dated Oct 1, 2010
- Drawing XP95 PCB Assembly No. 43781-237 Iss.15, dated Jan. 2019.
- Drawing Xp95 Schematic Diagram No. 55000-640CD Iss.8, dated Jan. 2019.

#### **For modification F0 version:**

#### **Apollo Fire Detectors Ltd.:**

- Drawing 60 & XP95 Optical Ionisation Smoke LID No. 38531-775 Iss.2A, dated Mar 15, 2017.
- Drawing Optical, PCB Cover Discovery No. 38531-861 Iss.2B, dated Sep 28, 2016.
- Drawing XP95 LID - Printed No. 44251-043 Iss.9, dated Oct 2018.
- Drawing XP95 general Assy No. 55000-640 Iss.5, dated Jan 2019.
- Drawing XP95 No. 55000-640CS Certificate Schedule Iss.9, dated Jan 2019.

#### **SGS:**

- Ex Certificate No.: BAS02ATEX1289X - Issue 9, dated Feb 8, 2021

### 3. TEST REPORTS:

- LPC TE 90087, LPC TE 90089, LPC TE 90090, LPC TE 89129, LPC TE 89128 & LPC TE 89126.

#### **BRE:**

- Test Report N° TE223930 dated 09/Dec./2005.
- Technical Evaluation Test Report No. TE301792 Issue:1, dated June 9, 2015.
- Technical Evaluation Test Report No. TE288681 Issue:1, dated Dec 19, 2016.
- Technical Evaluation Test Report No. TEOPP001688, dated July 16, 2019.

#### **TÜV:**

- IP Test House Certificate No. SX615834-001 Issue 1 dated 29th Jan. 2007.

#### **For modification F0 version:**

#### **Eurofins:**

- EMC Test Report No. 1488IR, dated Oct 15, 2019.
- EMC Test Report No. 18R110 ER, dated Mar. 26, 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 - Must be used with either a XP 95 single or dual channel protocol translator (55000-855, 55000-856).

4.5 - For use with fire alarm panel utilizing these APOLLO Series 90 or XP 95 communication protocol.

4.6 - For any application for a given ship, drawings showing the arrangement and grouping of the detectors shall be submitted for Society's approval.

4.7 - The equipment, once installed on board ships, is to be tested in accordance with the above referred Regulations under the supervision of a Society's Surveyor.

4.8 - Ex-certification is not covered by this certificate, Applications in hazardous areas are to be approved in each case according to the Rules and Conditions for Safe Use specified in a valid Ex-Certificate issued by a Notified or Recognised Certification Body.

4.9 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev7.

**5. PRODUCTION SURVEY REQUIREMENTS:**

5.1 - The above products are to be supplied by **APOLLO FIRE DETECTORS LIMITED** in compliance with the type described in this certificate.

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 - **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.
- Ex marking as relevant.

**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 No. 07434/E2 BV issued on 15 Jan 2020 by the Society.

\*\*\* END OF CERTIFICATE \*\*\*