

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Fire Detector**

with type designation(s)

Series XP95**55000 - 440, - 540, - 640, - 855, - 856;****45681 -200, -204, -215, -233**

Issued to

Apollo Fire Detectors Limited
HAVANT, HAMPSHIRE, United Kingdom

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Location classes:**

Temperature	A
Humidity	B
Vibration	A
EMC	A
Enclosure	Required protection according to the Rules to be provided upon installation on board.

This Certificate is valid until **2021-12-31**.Issued at **Høvik** on **2017-06-19**DNV GL local station: **London**Approval Engineer: **Nils Jarem**for **DNV GL**

Odd Magne Nesvåg
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-006901-11**
 Certificate No: **TAA00000WF**
 Revision No: **1**

Product description

This certificate covers the following type designations :
 Series XP 95 Analogue, Addressable, Intrinsically Safe Fire Detectors, Manual Call Point and Protocol Translator:

Part number	Description
55000 - 440:	Heat detector, quiescent current 250 µA
55000 - 540:	Ionisation smoke detector, quiescent current 280 µA
55000 - 640:	Optical smoke detector, quiescent current 340 µA
	Certified safe type: BAS02ATEX1289
45681 - 200:	Mounting base
45681 - 215:	Detector base
45681 - 204, - 233:	Conduit box, backplate
55000 - 855:	Protocol translator, single channel
55000 - 856:	Protocol translator, dual channel

Application/Limitation

Approved for use with type approved fire alarm central units using Apollo XP95 Communication Protocol and Protocol Translator XP95 Part. No. 55000-855 or 55000-856.

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Approval conditions

System application and location of detectors to be in accordance with relevant parts of the Rules. The Type Approval covers hardware listed under Product Description. In each case the hardware is used in application to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system. Reference to applied hardware as listed above, as well as reference to this certificate is to be made through the instrument and equipment list covering the application system in question. Reference is made to DNV GL Rules for Ships Pt. 4 Ch. 9 - Control and monitoring systems.

Type Approval documentation

XP95 I.S. Heat Detector 55000-440:

Eng. Product Guide:	PP 1095/2005/issue 4
Schematic Diagram:	55000-440 CD, issue 4
Ass. Drawing:	55000-440 GA, issue 4A 43781-245, issue 7A
Inst. Drawing:	55000-440 ID, issue 1
LPC Report:	TE 88021, TE 89124, TE 89128, TE 89129, TE 90085, TE 90089, TE 90090
LPCB Report:	TE 223930

XP95 I.S. Ionisation Smoke Detector 55000-540:

Eng. Product Guide:	PP 1095/2005/issue 4
Schematic Diagram:	55000-540 CD, issue 4
Ass. Drawing:	55000-540 GA, issue 3 43781-243, issue 8B
Inst. Drawing:	55000-540 ID, issue 1
LPC Report:	TE 88019, TE 89125, TE 89128, TE 89129, TE 90086, TE 90089, TE 90090
LPCB Reprot:	TE 223930

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XP95 I.S. Optical Smoke Detector 55000-640::

Eng. Product Guide:	PP 1095/2005/issue 4
Schematic Diagram:	55000-640 CD, issue 7
Ass. Drawing:	55000-640 GA, issue 4 43781-237, issue 14
Inst. Drawing:	55000-640 ID, issue 1
LPC Report:	TE 88020, TE 89126, TE 89128, TE 89129, TE 90087, TE 90089, TE 90090
LPCB Report:	TE 223930

XP95 I.S. Protocol Translators 55000-855 and 55000-856:

Eng. Product Guide:	PP1095/2005/issue 4
Data sheet	PP2567/2017/Issue 1
Schematic Diagram:	55000-855CD issue 3; 55000-856CD issue 3
Ass. Drawing:	55000-855 issue 3A 55000-856 issue 3A
LPCB Report:	TE 245499

Type approval periodical assessment report for A-13139, DNV GL Southampton on 2016-12-19

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.

Tested according to EN 54-11 (2001); EN 54-5 (2000); EN 54-7 (2000); EN 54-18 (2005)

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE