




TYPE APPROVAL CERTIFICATE
No. ELE186017XG/003

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Fire detectors
<i>Type</i>	Apollo XP 95 IS analogue addressable heat detector, intrinsically safe type, including: - detector head: model 55000-440 - detector base: model 45681-215
<i>Applicant</i>	APOLLO FIRE DETECTORS LIMITED 36 Brookside Road Havant, Hampshire PO9 1JR UNITED KINGDOM
<i>Manufacturer</i>	APOLLO FIRE DETECTORS LIMITED
<i>Place of manufacture</i>	36 Brookside Road Havant, Hampshire PO9 1JR UNITED KINGDOM
<i>Reference standards</i>	.Rules for the Classification of Ships-Part C - Machinery, Systems and fire protection - Ch. 2, Sect. 6 , Tab. 1 and EN 54-5:2000 + A1:2002 + A2:2006

Issued in **HAMBURG** on **October 23, 2017**. This Certificate is valid until **October 22, 2022**


RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure



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Apollo XP 95 IS analogue addressable heat detector, intrinsically safe type, including:

- detector head: model 55000-440
- detector base: model 45681-215

Product description:

The XP95 I.S. heat detector is distinguishable from XP95 I.S. smoke detectors by its low air-flow resistance case which allows good contact between the sensing thermistor and the surrounding air.

The device monitors temperature by using a single thermistor network which provides a voltage output proportional to the external air temperature.

The voltage signal is processed and transmitted to the control equipment in the same way as in the case of the ionization smoke detector.

Communication protocol: Apollo XP 95

Supply wiring: two wire , polarity sensitive.

To enable the use of standard control and indicating equipment with an XP95 intrinsically safe device, a *protocol translator* must be used, as the maximum voltage and current levels used in the standard XP 95 protocol are outside the limits of intrinsically safe systems.

These are devices that modifies voltage levels from a standard XP95 loop driver to levels compatible with the intrinsically safe protocol specification. The translator also amplifies the current pulses returned by the XP 95 intrinsically safe detector.

Two protocol translators are available:

Single channel : part n° 55000-855 Dual channel: part n° 55000-856

Suitable safety barriers are to be used between the translator and the hazardous area, in order to comply with the relevant applicable safety requirements.

Documents:

- Engineering product guide PP1095/2005/Issue 4; Engineering Product Guide PP1039/2008/Issue 10

Test reports:

LPC: - TE82645 dated Jan.1993, TE84655 dated June 1994, TE88021 dated Feb. 1997, TE90085 dated 06/ 01/1998,
- TE89124 dated 06/ 09/1997, TE90089 dated 07/01/1998, TE90090 dated 07/01/1998, TE89128 dated 25/ 11/1997,
- TE89129 dated 25/ 11/1997,

BRE / LPCB: - TE220278 dated 22/07/2005, TE223930 dated 09/12/2005; TE288681 Issue 1 dated 19 December 2016

Safety certificates:

SGS Baseefa Limited: - IECEx BAS 12.0091X issue 3 dated 2015-03-23

Marking:

Ex ia IIC T5 Ga (-20°C ≤ Ta ≤ +45°C); Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +60°C); Ex ia IIIC T135°C Da (-20°C ≤ Ta ≤ +60°C)

Remarks:

- Apollo XP95 55000-440 heat detector comply with A2 class . (Temperature response time -EN 54-5 clause 4)
- This certificate replace the certificate no.: ELE114012XG/003.



HAMBURG October 23, 2017