



Lloyd's  
Register

## Type Approval Certificate

*This is to certify that the undernoted product has been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.*

This certificate is issued to:

<b>PRODUCER</b>	Apollo Fire Detectors Ltd.
<b>PLACE OF PRODUCTION</b>	FFE Ltd. 9 Hunting Gate, Hitchin SG4 0TJ Hertfordshire
<b>DESCRIPTION</b>	UV Flame Detector
<b>TYPE</b>	55000-027 MAR
<b>TECHNICAL DETAILS</b>	Input Voltage: 17-28V DC Maximum current consumption at 24V: Quiescent, 2.3mA Alarm, 4.2mA Surge, 9mA (peak) for 110ms
<b>APPLICATION</b>	Marine applications in category ENV1, ENV2 and ENV3 as defined in Lloyd's Register Type Approval Test Specification No. 1, 2015 where the test specification is satisfactory for the intended operation.
<b>STANDARDS</b>	EN 54-10: 2002
<b>SOFTWARE</b>	TFD Series 017000 Version XDT04A
<b>Certificate No.</b>	15/00074
<b>Issue Date</b>	14 August 2015
<b>Expiry Date</b>	13 August 2020
<b>Sheet</b>	1 of 2



L. Green  
Marine Technology & Engineering Services, Southampton  
Lloyd's Register EMEA

Lloyd's Register EMEA  
Southampton Boldrewood Innovation Campus, Burgess Road, Southampton, SO16 7QF

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*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The Design Appraisal Document No. 15/00074 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

**Certificate No.** 15/00074  
**Issue Date** 14 August 2015  
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**Sheet** 2 of 2

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Issue number	0

**DESIGN APPRAISAL DOCUMENT**

Date	Quote this reference on all future communications
14 August 2015	MTES/ETS/AO/LG/WP18757402/W03843666

**LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2015.**

**Issued to: APOLLO FIRE DETECTORS LTD.**

**for: UV FLAME DETECTOR**

**TYPE: 55000-027 MAR**

**TYPE APPROVAL CERTIFICATE No. 15/00074**

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2015 and this Design Appraisal Document forms part of the Certificate.

**APPROVAL DOCUMENTATION**

- Request Form 2571
- LR Production Quality Assessment Form: SOU 1500805
- LR Job Control Record: SOU 1401050
- FFE Ltd. Company Introduction/Scope: Ref. FFEQ 101, Issue 3.0

- 19.03.2014
- 21.08.2015
- 11.08.2015
- Feb 2015

**CERTIFICATION**

- LPCB Certificate of Management System Registration: Certificate No. 010, issue No. 16
- ABS Certificate of Design Assessment – Certificate No. 11-LD766034-PDA
- BRE Certificate of Constancy of Performance – No. 0832-CPR-F0354
- FFE Ltd – BSI Certificate of Registration – ISO 9001:2008 – Certificate No. FM 01794

- 19.02.2015
- 07.07.2011
- 11.04.2014
- 18.06.2015

**TEST REPORTS**

- 55000-027 MAR-Report
- BRE Testing – Test Report No. TE244230
- BRE Testing – Test Report No. TE244230-SW
- TUV Test Report 75931682, Report 01, Issue 1

- 25.08.2015
- 12.03.2010
- 20.04.2010
- 27.08. 2015

**DATA SHEETS**

- Apollo B.O.M. Comparison Spreadsheet
- Materials List – 17938-01 – UV Base Mount XP95 Marine Parts List
- XP95 UV/IR HCS12X Flame Detector Circuit Diagram – Drg. No. A1-1518-02 Rev. C
- Build Guide – FR Flame 017000 Series Base Mounted, issue 01
- Marine Intelligent Base Mounted Flame Detectors: PP2401/2010/Issue 1

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- 30.05.2014
- 21.05.2013
- 30.01.2014
- 

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### DESIGN APPRAISAL DOCUMENT

Date 14 August 2015	Quote this reference on all future communications MTES/ETS/AO/LG/WP18757402/W03843666
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#### Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the LR Type Approval System Procedure.



Anthony Osborne  
Senior Specialist  
Electrotechnical Systems



Leon Green  
Lead Specialist  
Electrotechnical Systems

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**Part 3  
Fire and Gas Detection Alarm and Control Systems (Part 3)**

Producer/Licence No.	Item Description	Technical Details	Category/ Additional Tests	Remarks	Cert. No.
Apollo Fire Detectors Ltd, 36 Brookside Road, Havant, Hampshire, PO9 1JR, United Kingdom (UK).	UV Flame Detector  Type 55000-027 MAR  Software TFD Series 017000 Version XDT04A	Input Voltage: 17-28V DC Maximum current consumption at 24V: Quiescent, 2.3mA Alarm, 4.2mA Surge, 9mA (peak) for 110ms	Marine applications in category ENV1, ENV2 and ENV3 as defined in Lloyd's Register Type Approval Test Specification No. 1, 2015 where the test specification is satisfactory for the intended operation.	Expires: 13 August 2020  Standards: EN 54-10: 2002	15/00074

