

# EC Type Examination Certificate

## Notified Body 0729

This is to certify that ABS Europe Ltd., as a Notified Body under the authorization of UK MCA by Merchant Shipping Equipment Regulation, SI 1999, Number 1957 and M Notice Number 1734, as amended, did undertake the relevant type examination procedure of the product listed and same was found to be in compliance with the provisions of these Regulations and EU Directive 96/98/EC of 20 December 1996 as amended by EU Directive (EU) 2015/559

ANNEX A.1 ITEM NUMBER: A.1/3.51

CERTIFICATE NUMBER: 11-LD792467-1-EC

APPLICANT: Apollo Fire Detectors Ltd.

PLANT LOCATION: Hampshire, UK

PORT OFFICE: Southampton, UK

PRODUCT DESIGNATION: Fixed fire detection and fire alarm system components – Heat Detectors, Flame Detectors, Smoke Detectors, Manual Call Points  
Model: Apollo Analogue Addressable Range of Flame/Smoke/Heat Detectors, Manual Call Points and Accessories, XP95 Analogue Addressable Intrinsically Safe Range of Smoke/Heat Detectors, Manual Call Points

STANDARDS AND REGULATIONS: SOLAS Regulations II-2/7, X/3  
IMO Resolution MSC98(73)- (FSS Code) Chapter 9, MSC.36(63)-(1994 HSC Code) 7, MSC.97(73)-(2000 HSC Code) 7, MSC.1/Circ.1242  
EN 54-5 (2000) inc. A1(2002), EN 54-7 (2000) including A1(2002) & A2 (2006), EN 54-10 (2002) including A1(2005), EN 54-11 (2001) including A1(2005); IEC 60092-504 (2001) including IEC 60092-504 Cor.1(2011); IEC 60533 (1999);

THIS CERTIFICATE IS ISSUED IN COMPLIANCE WITH CONFORMITY ASSESSMENT **MODULE B** OF THE REGULATIONS AND DIRECTIVES LISTED ABOVE.

ISSUE DATE: 07 September 2016

EXPIRATION DATE: 28 July 2021

SIGNATURE:  D. Morgan

Should the specified regulations or standards be amended during the validity of this certificate, the products are to be re-approved prior to being placed on board vessels to which the amended regulations or standards apply.

This "Mark of Conformity" may only be affixed to the above equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase Module (D, E or F) of Annex B of the Directive is fully complied with and controlled by a written agreement with a Notified Body.

The attached document list forms part of this Certificate.

**Certificate No.:** 11-LD792467-1-EC

**Entry Date:** 07 September 2016

**Name of Equipment/  
Component Manufacturer:** Apollo Fire Detectors Ltd.  
36 Brookside Road  
Havant  
Hampshire  
England  
PO9 1JR

Tel: +44-2392-492-412  
Fax: +44-2392-492-754  
Website: www.apollo-fire.co.uk

**Equipment/Component:** Fixed fire detection and fire alarm system components

**Model:** Apollo Analogue Addressable Range of Flame/Smoke/Heat Detectors, Manual Call Points and Accessories, XP95 Analogue Addressable Intrinsically Safe Range of Smoke/Heat Detectors, Manual Call Points

**Description:** Analogue addressable detectors, call points and accessories  
45681-210MAR 4inch Addressable Base  
45681-211MAR Isolator Base  
45681-286MAR 20D Negative Isolating Base  
55000-027MAR UV Flame Detector  
55000-028MAR UV/IR2 Flame Detector  
55000-029MAR IR3 Flame Detector  
55000-034MAR IR3 Flame Detector  
55000-181MAR DIN Rail 8 amp Sounder Controller  
55000-721MAR 20D Negative Isolator  
55000-770MAR DIN Rail Dual Isolator  
55000-771MAR DIN Rail Output Unit  
55000-772MAR DIN Rail Switch Monitor Plus  
55000-773MAR DIN Rail Zone Monitor with Isolator  
55000-774MAR DIN Rail Input/Output Unit  
55000-775MAR DIN Rail Mini Switch Monitor  
55000-855MAR DIN Rail Single Channel Protocol Translator  
55000-856MAR DIN Rail Dual Channel Protocol Translator  
58000-400MAR Heat Detector  
58000-500MAR Ionisation Smoke Detector  
58000-600MAR Optical Smoke Detector  
58000-700MAR Multisensor Smoke Detector  
58100-970MAR Red Manual Call Point  
58100-971MAR Red Manual Call Point with Isolator  
58100-975MAR Waterproof Manual Call Point  
58100-976MAR Waterproof Manual Call Point with Isolator  
45681-215 Standard Base  
55000-440 Class A2S Heat Detector  
55000-540 Ionisation Smoke Detector  
55000-640 Optical Smoke Detector  
55100-940 Red Manual Call Point



**Intended Service:** Analogue addressable fire detection system detectors, call points and accessories for marine and offshore applications in process, machinery and accommodation spaces.

**Ratings:**

Apollo Analogue Addressable Range of Flame/Smoke/Heat Detectors,  
Manual Call Points and Accessories  
Nominal voltage 17 to 28V DC  
Operating temperature -20C to 60C, -30C to 70C or -40C to 70C dependent  
on model  
Quiescent current 100 microA to 400microA dependent on model  
Ingress Protection IP44 (detectors), IP67 (manual call points)

Apollo XP95 Analogue Addressable Intrinsically Safe Range of Smoke/Heat  
Detectors, Manual Call Points  
Nominal voltage: 14 to 22V DC;  
Operating temperature:-20C to 60C;  
Quiescent Current: 230microA to 340microA, Alarm Current: 10 to 60 mA;  
Ingress Protection: IP44 (detectors), IP 65/66 (manual call points);  
Classification: EEx ia IIC T5 or T4 (Ta < or = 60C);  
Ex ia IIC T5/T4 Ga (-20°C ≤ Ta ≤ +45°C/+60°C), Ex ia IIIC T135°C Da (-  
20°C ≤ Ta ≤ +60°C), Safety certification: IEC EX BAS 12.0091X Issue No.: 3  
Ex II 1G Ex ia IIC T5/T4 Ga (-20°C ≤ Ta ≤ +45°C/+60°C), Safety  
certification: BAS02 ATEX 1289 and Supplementary EC issue7

**Comments:**

Tests and approval are for hardware only.

Approved in accordance with the Fire protection equipment requirements  
for fixed fire detection and fire alarm systems components - item A.1/3.51 of  
the European Union Marine Equipment Directive 96/98/EC as Amended by  
Directive (EU) 2015/559.

This certificate will not be valid if the manufacturer makes any changes or  
modifications to the approved equipment, which have not been notified to,  
and agreed with the Notified Body named on this certificate.

The "Mark of Conformity" may only be affixed to the above equipment and  
a Manufacturer's Declaration of Conformity issued when the production-  
control phase module (D, E or F) of Annex B of the Directive is fully  
complied with and controlled by a written agreement with a Notified Body.



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**Drawing Schedule:**

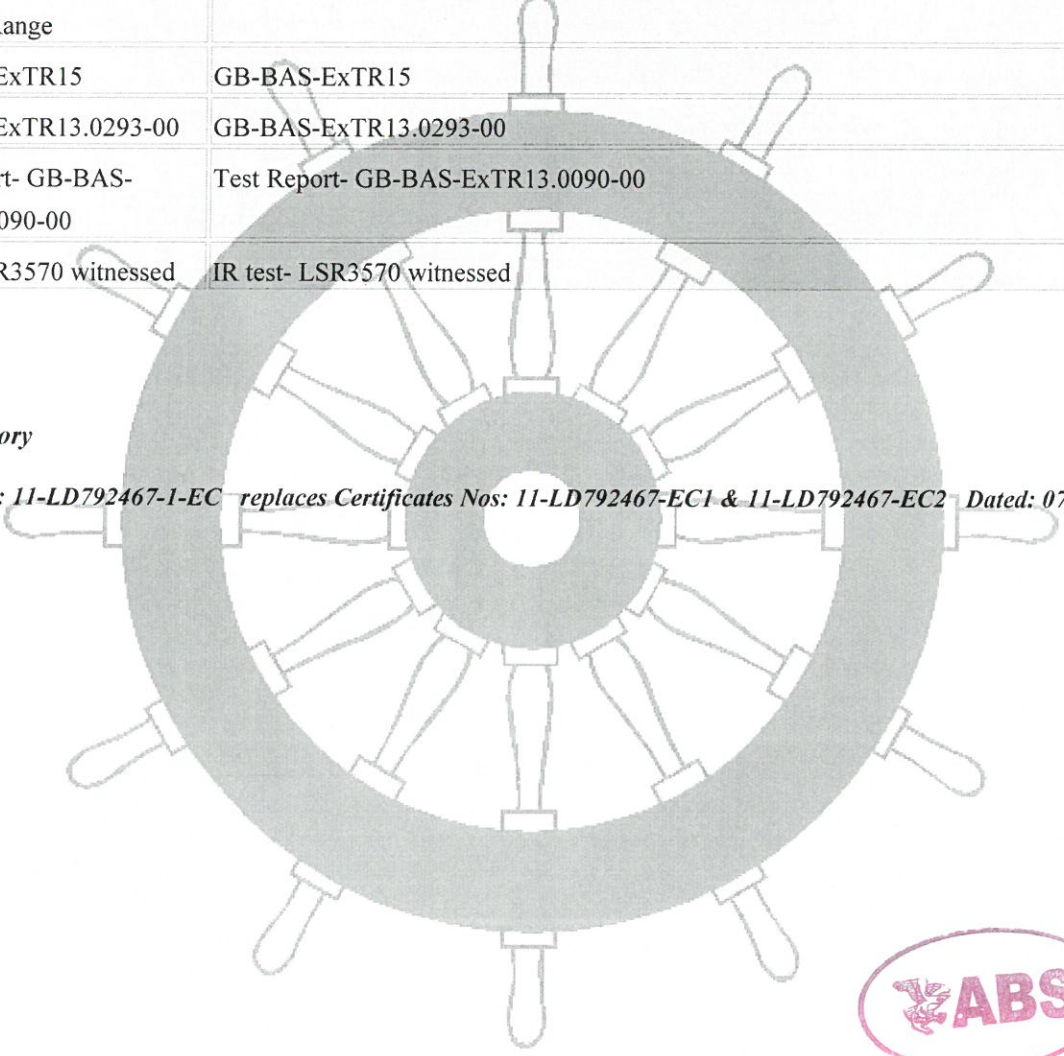
<b>Drawing No</b>	<b>Drawing Title</b>
16-LD1536864-PDA	PRODUCT DESIGN ASSESSMENT
43781-263	XP95 INTRINSICALLY SAFE MANUAL CALL POINT PCB ASSEMBLY
45681-215	XP95 INTRINSICALLY SAFE MOUNTING BASE ASSY
55000-640	XP95 INSTRICALLY SAFE OPTICAL SMOKE DETECTOR GENERAL ASSEMBLY
43781-243	XP95 INTINSICALLY SAFE IONISATION SMOKE DETECTOR PCB ASSEMBLY
43781-245	XP95 INSTRINSICALLY SAFE HEAT DETCTOR PCB ASSEMBLY
43781-237	XP95 INTRINSICALLY SAFE OPTICAL SMOKE DETECTOR PCB ASSEMBLY
45681-211	XP95 ISOLATOR BASE ASSEMBLY
55000-028MAR	INTELLIGENT BASE MOUNTED UV/IR2 FLAME DETECTOR (MARINE)
55000-027MAR	INTELLIGENT BASE MOUNTED UV FLAME DETECTOR (MARINE)
43781-547	XP95 , NEGATIVE ISOLATOR , PCB ASSEMBLY
TE 238037	TECHNICAL EVALUATION OF THE MODIFIED APPOLLO FIRE DETECTORS LTD
TE245407	TECHNICAL EVALUATION OF MODEL 45681-393 APO
TE 252733	TECHNICAL EVALUATION OF THE APOLLO FIRE DETECTORS LTD
TE 222766	TECHNICAL EVALUATION OF THE APOLLO FIRE DETECTORS LIMITED
43781-964	XP95/DISCOVERY EN54 MCP PCB ASSEMBLY
TE 237126	TECHNICAL EVALUATION OF THE APOLLO FIRE DETECTORS LTD
TE 245499	TECHNICAL EVALUATION OF THE APOLLO FIRE DETECTORS LTD
TE 237154	TECHNICAL EVALUATION OF THE APOLLO 55000 -760 ANALOGUE ADDRESSABLE MINI SWITCH MONITOR
TE 223930	TESTING OF THE APOLLO XP995 I.S.
TE 260875	TECHNICAL EVALUATION OF THE APOLLO FIRE DETECTORS LTD
TE292207	BRE GLOBAL TEST REPORT
43781-271	ISOLATING BASE PCB ASSEMBLY
TE 90089	TEST REPORT
TE 90090	TEST REPORT
TE 236936	TECHNICAL EVALUATION OF THE APOLLO FIRE DETECTORS LTD
TE 234979	TECHNICAL EVALUATION OF THE APOLLO FIRE DETECTORS LTD
TE 231156	TECHNICAL EVALUATION OF THE APOLLO FIRE DETECTORS LTD



43781-291	DIN RAIL INPUT /OUTPUT UNIT PCB ASSEMBLY
43781-700	DISCOVERY IONISATION SMOKE DETECTOR PCB ASSEMBLY
43781-900	DISCOVERY, TEXAS CHIP, MULTISENSOR SMOKE DETECTOR, PCB ASSEMBLY
43781-292	DIN RAIL OUTPUT UNIT PCB ASSEMBLY
43781-293	XP95 DIN RAIL SWITCH MONITOR PLUS PCB ASSEMBLY
43781-296	XP95 DIN RAIL ZONE MONITOR UNIT PCB ASSEMBLY
45681-393CD SHT 1	DISCOVERY , ISOLATED SOUNDER BEACON BASE SCHEMATIC DIAGRAM
45681-393CD SHT 1	DISCOVERY , ISOLATED SOUNDER BEACON BASE SCHEMATIC DIAGRAM
45681-393	DISCOVERY SOUNDER BEACON BASE WITH ISOLATOR , GENERAL ASSEMBLY , STANDARD TONE
55000-181CD	MARINE SOUNDER CIRCUIT CONTROLLER CIRCUIT DIAGRAM
55000-029MAR	INTELLIGENT BASE MOUNTED IR3 FLAME DETECTOR (MARINE)
43781-968	DISCOVERY SOUNDER BEACON BASE, WITH ISOLATOR, PCB ASSEMBLY
43781-982	DIN RAIL MARINE SOUNDER CONTROL UNIT PCB ASSEMBLY
43781-306	XP95 DIN RAIL DUAL ISOLATOR PCB ASSEMBLY
55000-812CD	XP95 DIN RAIL ZONE MONITOR UNIT CIRCUIT DIAGRAM
55000-812CD	XP95 DIN RAIL ZONE MONITOR UNIT CIRCUIT DIAGRAM
55000-804CD	DIN RAIL OUTPUT UNIT SCHEMATIC DIAGRAM
55000-802CD	DIN RAIL DUAL ISOLATOR CIRCUIT DIAGRAM
55000-803CD	DIN RAIL I/O UNIT CIRCUIT DIAGRAM
55000-821CD	XP95 DIN RAIL SWITCH MONITOR PLUS CIRCUIT DIAGRAM
45681-210	LLOYDS AUDIT 2014
45681-394 MAR	LLOYDS AUDIT 2014
55000-027 MAR	TEST REPORT
55000-775 MAR	LLOYDS AUDIT 2014
45681-286 MAR	LLOYDS AUDIT 2014
55000-028 MAR	TEST REPORT
45681-210 Lloyds Audit 2014 - final	TESTED TO LLOYDS REGISTER TYPE APPROVAL TEST PRODUCT ID - 45681-210
45681-394 Lloyds Audit 2014 - final	TESTED TO LLOYDS REGISTER TYPE APPROVAL TEST PRODUCT ID 45681-394 MAR
55000-028 Test Report	TESTED TO LLOYDS REGISTER TYPE APPROVAL TEST PRODUCT ID 55000-028 MAR
55000-027 Test Report	TESTED TO LLOYDS REGISTER TYPE APPROVAL TEST PRODUCT ID 55000-027 MAR



45681-286 Lloyds Audit 2014 - final	TESTED TO LLOYDS REGISTER TYPE APPROVAL TEST PRODUCT ID 45681-286 MAR
SOU 1600611/1	INSULATION RESISTANCE TEST WITNESS
TEST REPORT INSULATION RESISTANCE TESTING	TEST REPORT
GB-BAS-ExTR12-0292-00_XP95IS Fire Monitors	GB-BAS-ExTR12-0292-00_XP95IS Fire Monitors
IECEX-BAS-12-0091X_3 - XP95 IS Range	IECEX-BAS-12-0091X_3 - XP95 IS Range
GB-BAS-ExTR15	GB-BAS-ExTR15
GB-BAS-ExTR13.0293-00	GB-BAS-ExTR13.0293-00
Test Report- GB-BAS-ExTR13.0090-00	Test Report- GB-BAS-ExTR13.0090-00
IR test LSR3570 witnessed	IR test- LSR3570 witnessed



**Revision History**

Certificate No: 11-LD792467-1-EC replaces Certificates Nos: 11-LD792467-EC1 & 11-LD792467-EC2 Dated: 07/09/2016



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