

Type Approval Certificate Extension

This is to certify that Certificate No. 04/00091(E3) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER

Apollo Fire Detectors Ltd

PLACE OF

36 Brookside Road

PRODUCTION

Havant Hampshi

Hampshire PO9 1JR

United Kingdom (UK)

DESCRIPTION

Heat Detector

TYPE

ORBIS Range comprising of:

ORB-MB-00001-MAR:

Orbis TimeSaver base

ORB-RB-40004-MAR:

Orbis TimeSaver relay base

ORB-HT-41003-MAR:

Class BR with SensAlert and FasTest Class BS with SensAlert and FasTest

ORB-HT-41004-MAR:

Class DD with Cars Alert Fra Test and

ORB-HT-41015-MAR:

Class BR with SensAlert, FasTest and

Flashing LED

ORB-HT-41016-MAR:

Class BS with SensAlert, FasTest and

Flashing LED

ORBISIS (Intrinsically Safe) Range comprising of:

ORB-HT-51149-APO: ORB-HT-51150-APO:

Class BR with SensAlert and FasTest

Class BR with SensAlert, FasTest and

Flashing LED

ORB-HT-51151-APO:

Class BS with SensAlert and FasTest

ORB-HT-51152-APO:

Class BS with SensAlert, FasTest and

Flashing LED

Certificate No.

04/ 00091(E4)

Issue Date

2 November 2019

Expiry Date

1 November 2024

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M JHiggins

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

Lloyd's Register EMEA 71 Fenchurch Street, London EC3M 4BS

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ORB-MB-50018-APO:

Orbis IS TimeSaver Base

ORB-BA-50008-APO:

Orbis IS Base Adaptor (in conjunction with

45681-207 base)

APPLICATION

Marine, offshore and industrial use in Environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register Test Specification No.

1: 2002.

STANDARD

EN 54-5: 2001 + A1: 2002

ADDITIONAL TESTS

Hazardous Areas Components (ATEX):

EEX II 1G Ex ia IIC T4(- 40° C \leq Ta \leq + 60° C) / T5(- 40° C \leq Ta \leq +

40°C)

OTHER CONDITIONS

1. Type Approval of products according to Test Specification No. 1 is essentially for hardware. Examination of software aspects is restricted to functional operation as demonstrated in the Performance Test.

- 2. The requirements of the Lloyd's Register (LR) Rules apply when the equipment is installed on LR Classed vessels and offshore installations.
- 3. Maximum operating voltage is 28V in accordance with specification.
- 4. Screened cable is to be used for all installations.

"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 attached Design Appraisal Document No.04/00091(E4) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 04/ 00091(E3), 04/ 00091(E2), 04/ 00091(E1) and 04/ 00091 to which this extension should be attached.

Certificate No.

04/ 00091(E4)

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DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications
22 August 2019	UKITSO/ETS/TA/MJH/WP36804748

LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2017.

Issued to: APOLLO FIRE DETECTORS LTD.

for: HEAT DETECTOR

Types: ORBIS IS (INTRINSICALLY SAFE) RANGE (CLASS BR & BS)
TYPE APPROVAL CERTIFICATE No. 04/00091(E4)

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2017 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Schedule of Accreditation BRE Global Ltd Iss112	03 Jul 2019
Request form with product amendment information	04 Mar 2014
ISO 9001: 2015 Iss 18 Certificate No 010, Expires 5 July 2021	6 July 2018

DATASHEETS

Updated	drawings	of the	following;

200-HT-00001 Issue 2, Orbis (PIC), Heat Detector PCB, SMD Assembly	Apr 2009
400-HT-00001 Issue 2, Orbis (PIC), Heat Detector, Un-configured Assembly	Aug 2010
400-HT-00002 Issue 2, Orbis (Texas Chip), Heat Detector, Un-configured Assembly	Aug 2010
100-HT-00011 Issue 4, Orbis Intrinsically Safe, Heat Detector Circuit Diagram	Jul 2010
200-HT-00009 Issue 5A, Orbis Intrinsically Safe, Heat Detector PCB, SMD Assembly	Dec 2014
400-HT-00011 Issue 2, Orbis Intrinsically Safe, Heat Detector, Un-configured Assembly	Aug 2010
300-MA-00011 Issue 5, Orbis Intrinsically Safe, Timesaver Base Assembly	Jun 2017
100-RB-00007 Issue 2, Orbis Relay Base Circuit Diagram	Jun 2013
200-RB-00005 Issue 4, Orbis Relay Base, PCB Assembly	Jun2013
300-MA-00005 Issue 5A, Orbis Fully Loaded, Deep Base Assembly	Nov 2007
400-RB-00007 Issue 3A, Orbis, Relay Base Assembly	Nov 2007

TEST REPORTS

Lloyd's Register Inspection and Surveillance of Production Facilities SOU 1400418	25 Apr 2014
Apollo Fire Detectors LTD Declaration of Performance No. 0832-CPD-0471	16 Nov 2015
Apollo Fire Detectors LTD Declaration of Performance No 0832-CPD-0472	16 Nov 2015



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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 Lloyd's Register Type Approval System Procedure.

Matthew Higgins UKITSO Southampton Office

Lloyd's Register EMEA

EN037.1.2010.00

M.J.Higgins Electrical Specialist Southampton Technical Support Office Marine & Offshore Lloyd's Register