

Type Approval Certificate Extension

This is to certify that Certificate No. 04/00091 (E2) 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 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

ORB-HT-41004-MAR:

Class BS with SensAlert and FasTest

ORB-HT-41015-MAR:

Class BR with SensAlert, FasTest and

Flashing LED

ORB-HT-41016-MAR:

Class BS with SensAlert, FasTest and

Flashing LED

ORBIS IS (Intrinsically Safe) Range comprising of:

ORB-HT-51149-APO:

Class BR with SensAlert and FasTest

ORB-HT-51150-APO:

Class BR with SensAlert, FasTest and

Flashing LED

ORB-HT-51151-APO:

Class BS with Sens Alert and Fas Test

ORB-HT-51152-APO: Class BS with Sens Alert, Fas Test and

Flashing LED

Certificate No.

04/00091(E3)

Issue Date

19 May 2014

Expiry Date

01 November 2019

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Sheet

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A.M. Anderson

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

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

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ORB-MB-50018-APO: ORB-BA-50008-APO:

Orbis IS TimeSaver Base

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."

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

Certificate No.

04/00091(E3)

Issue Date

19 May 2014

Expiry Date

01 November 2019

Sheet

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A.M. Anderson

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Lloyd's Register EMEA (London Office)

LONDON DESIGN SUPPORT SERVICES

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Email tad@lr.org

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Issue number 1	

DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications
19 May 2014	MTES/ETS/TB/AMA/WP17395561/W03676565

LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.

Issued to: APOLLO FIRE DETECTORS LTD.

for: HEAT DETECTOR

Types: ORBIS IS (INTRINSICALLY SAFE) RANGE (CLASS BR & BS)
TYPE APPROVAL CERTIFICATE No. 04/00091(E3)

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Request form with product amendment information	04 Mar 2014
ISO 9001: 2008 Certificate, Expires 18 Feb 2015	19 Feb 2012

DATASHEETS

Updated drawings of the following:	
200-HT-00001 Issue 2, Orbis (PIC), Heat Detector PCB, SMD Assembly	Apr 09
400-HT-00001 Issue 2, Orbis (PIC), Heat Detector, Un-configured Assembly	Aug 10
400-HT-00002 Issue 2, Orbis (Texas Chip), Heat Detector, Un-configured Assembly	Aug 10
100-HT-00011 Issue 4, Orbis Intrinsically Safe, Heat Detector Circuit Diagram	Jul 10
200-HT-00009 Issue 5, Orbis Intrinsically Safe, Heat Detector PCB, SMD Assembly	Jul 10
400-HT-00011 Issue 2, Orbis Intrinsically Safe, Heat Detector, Un-configured Assembly	Aug 10
300-MA-00011 Issue 4, Orbis Intrinsically Safe, Timesaver Base Assembly	Aug 11
100-RB-00007 Issue 2, Orbis Relay Base Circuit Diagram	Jun 13
200-RB-00005 Issue 4, Orbis Relay Base, PCB Assembly	Jun13
300-MA-00005 Issue 5, Orbis Fully Loaded, Deep Base Assembly	Nov 07
400-RB-00007 Issue 3, Orbis, Relay Base Assembly	Nov 07

TEST REPORTS

Lloyd's Register Inspection and Surveillance of Production Facilities SOU 1400418	25 April 2014
Apollo Fire Detectors LTD Declaration of Performance No.	01 July 2013

Also all the documentation listed on Design Appraisal Document associated with Type Approval Certificate No's 04/00092, 04/00091(E1) and 04/00091(E2).

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.

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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.

Alasdair Anderson Principal Specialist Electrotechnical Systems

Marine Technology & Engineering Services

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

S Cert. No.	ond of the Lloyd's pply when alled on LR offshore
Remarks	Expires: 01 November 2019 Complies with: EN 54-5: 2000 + A1: 2002 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.
Category/Additional Tests	ENV2 ENV3 (2002) In accordance with the Test Specification.
Technical Details	Refer to manufacturer's literature
Item Description	Heat Detector ORBIS Range • ORB-HT-41003-MAR Class BR with SensAlert, FasTest • ORB-HT-41004-MAR Class BS with SensAlert, FasTest and Flashing LED • ORB-HT-41016-MAR Class BS with SensAlert, FasTest and Flashing LED • ORB-HT-41016-MAR Class BS with SensAlert, FasTest and Flashing LED • ORB-HT-41016-MAR Class BS with SensAlert, FasTest and Flashing LED • ORB-MB-00001-MAR: Orbis TimeSaver relay base Orbis TimeSaver relay base ORBIS IS (Intrinsically Safe) Range Comprising new modules: • ORB-HT-51149-APO Class BR with SensAlert and FasTest • ORB-HT-51150-APO Class BK with SensAlert and FasTest • ORB-HT-51151-APO Class BS with SensAlert, FasTest and Flashing LED • ORB-HT-51151-APO Class BS with SensAlert, FasTest and Flashing LED • ORB-HT-51152-APO Class BS with SensAlert, FasTest and Flashing LED • ORB-HT-51152-APO Orbis IS TimeSaver Base • ORB-MB-50018-APO Orbis IS TimeSaver Base • ORB-BA-50008-APO Orbis IS Base Adaptor (in conjunction with 45681-207 base)
Producer/Licence No.	Apollo Fire Detectors Ltd., 36 Brookside Road, Havant, Hampshire, PO9 1JR, United Kingdom (UK).

