



Lloyd's  
Register

## Type Approval Certificate Extension

This is to certify that Certificate No. 04/ 00089(E4) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	Apollo Fire Detectors Ltd
<b>PLACE OF PRODUCTION</b>	36 Brookside Road Havant Hampshire PO9 1JR United Kingdom (UK)
<b>DESCRIPTION</b>	Multi Sensor (thermally enhanced optical) Detector
<b>TYPE</b>	<u>ORBIS Range comprising of:</u> ORB-MB-00001-MAR: Orbis TimeSaver base ORB-RB-40004-MAR: Orbis TimeSaver relay base ORB-OH-43001-MAR: with SensAlert, FasTest and DirtAlert ORB-OH-43003-MAR: with SensAlert, FasTest and DirtAlert and Flashing LED  <u>ORBIS IS (Intrinsically Safe) Range comprising of:</u> ORB-OH-53027-APO: with SensAlert, FasTest and DirtAlert ORB-OH-53028-APO: with SensAlert, FasTest, DirtAlert and Flashing LED  ORB-MB-50018-APO: Orbis IS TimeSaver Base ORB-BA-50008-APO: Orbis IS Base Adaptor (in conjunction with 45681- 207 base)

<b>Certificate No.</b>	04/ 00089(E5)
<b>Issue Date</b>	2 November 2019
<b>Expiry Date</b>	1 November 2024
<b>Sheet</b>	1 of 2



M J Higgins  
Marine Technology & Engineering Services, London or Southampton  
Lloyd's Register EMEA

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<b>APPLICATION</b>	Marine, offshore and industrial use in Environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register Test Specification No. 1: 2002
<b>STANDARD</b>	EN 54-7: 2000 + A 1:2002 + A 2: 2006 CEA 4021: 2003
<b>ADDITIONAL TESTS</b>	Hazardous Areas Components (ATEX): EEX II 1G Ex ia IIC T4(- 40° C □ Ta □ + 60° C) / T5(- 40° C □ Ta □ + 40° C)
<b>OTHER CONDITIONS</b>	<ol style="list-style-type: none"> <li>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.</li> <li>2. The requirements of the Lloyd's Register (LR) Rules apply when the equipment is installed on LR Classed vessels and offshore installations.</li> <li>3. Maximum operating voltage is 28V in accordance with specification.</li> <li>4. Screened cable is to be used for all installations.</li> </ol>

*"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.04/00089(E5) and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

All other details remain as the previous Certificate No. 04/ 00089(E4), 04/ 00089(E3), 04/ 00089(E2), 04/ 00089(E1) and 04/ 00089 to which this extension should be attached.

<b>Certificate No.</b>	04/ 00089(E5)
<b>Issue Date</b>	2 November 2019
<b>Expiry Date</b>	1 November 2024
<b>Sheet</b>	2 of 2 Marine Technology & Engineering Services, London or Southampton



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## Lloyd's Register EMEA (Southampton)

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Issue number 1

### DESIGN APPRAISAL DOCUMENT

Date 22 August 2019	Quote this reference on all future communications UKITSO/TA/ETS/WP36802823
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## LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2017.

Issued to: APOLLO FIRE DETECTORS LTD.

for: MULTI SENSOR (THERMALLY ENHANCED OPTICAL) DETECTOR

Types: ORBIS IS (INTRINSICALLY SAFE) RANGE

TYPE APPROVAL CERTIFICATE No. 04/00089(E5)

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

ISO 9001: 2015 Certificate. No: 010, issue 18 (Expires 5 July 2021) 6 Jul 2018

Schedule of Accreditation BRE Global Ltd Iss 112 3 Jul 2019

#### DATASHEETS

Document Register 010t/02 Ref No: 5281, issue 3 21 Jul 2016

38531-902 - Revision 8 - Orbis Optical Chamber 28 Sept 2015

#### TEST REPORTS

Lloyd's Register Inspection and Surveillance of Production Facilities SOU 1400418 25 Apr 2014

BRE Covering Letter for Test Report TE101167-1001 14 Aug 2015

BRE Test Report TE101167-1001, issue 1 14 Aug 2015

#### 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.*



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