

**CERTIFICATE OF CONSTANCY OF PERFORMANCE**

Issued by DBI Certification, notified body No. 2531.

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

**Orbis Optical Smoke Detector Range**

The product fulfils the essential characteristic:

**See Annex 1**

Intended use: Applications related to automatic fire alarm systems

Placed on the market under the name or trade mark of:

**Apollo Fire Detectors Limited**  
**36 Brookside Road, Havant, Hampshire, PO9 1JR, UK**

and produced in the manufacturing plant:

**Apollo Fire Detectors Limited**  
**36 Brookside Road, Havant, Hampshire, PO9 1JR, UK**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

**EN 54-7:2000/A1:2002/A2:2006 : Fire detection and fire alarm systems - Part 7: Smoke detectors - Point detectors using scattered light, transmitted light or ionization**

under system 1 for the performance set out in this certificate are applied and that the performance of the construction product is assessed to remain constant.

The attached annexes form part of this certificate.

Date of issue: **2019-10-09**

This certificate will remain valid as long as neither the harmonized standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

This certificate was first issued 2019-10-09



Merete Poulsen  
Responsible for evaluation



Allan Laursen  
Responsible for certification decision

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Annex 1

**EXTENT**

**Type:**

Orbis Optical Smoke Detector Range

**Variants:**

ORB-OP-12001-APO Orbis Optical Smoke Detector with SensAlert, FasTest and DirtAlert  
 ORB-OP-12003-APO Orbis Optical Smoke Detector with Flashing LED, SensAlert, FasTest and DirtAlert

**Bases:**

OB: ORB-MB-00001-APO TimeSaver base  
 OL: ORB-MB-00002-APO TimeSaver base LX (without continuity checking link)  
 OD: ORB-DB-00003-APO TimeSaver diode base  
 OR: ORB-RB-10004-APO TimeSaver relay base  
 XL: ORB-MB-00012-APO & OEX-MB-00016-APO LX bases  
 EB: ORB-MB-00019-APO TimeSaver deep base

**Ancillaries:**

ORB-BA-10008-APO Orbis Adaptor base (to be used in conjunction with the following bases only: 45681-200 & 45681-201)

**Performance**

Essential characteristics	Clauses in EN 54-7:2000	Performance
Nominal activation conditions/Sensitivity, Response delay (response time) and Performance under fire conditions	4.8, 5.2, 5.3, 5.4, 5.6, 5.7, 5.18	Pass
Operational reliability	4.2 to 4.7, 4.9 to 4.11	Pass
Tolerance to supply voltage	5.5	Pass
Durability of operational reliability and response delay; temperature resistance	5.8, 5.9	Pass
Durability of operational reliability; vibration resistance	5.13 to 5.16	Pass
Durability of operational reliability; humidity resistance	5.10, 5.11	Pass
Durability of operational reliability; corrosion resistance	5.12	Pass
Durability of operational reliability; electrical stability	5.17	Pass

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Annex 2

**TEST DOCUMENTATION**

Accredited Laboratory	Report no.	Date
BRE BRE BRE BRE BRE	210362 TE210362BSW 210362-SW TE 245417 TE 252615	05 January 2004 18 November 2003 09 June 2003 13 October 2008 08 October 2009

**TECHNICAL BASIS**

File Number	Title
400-OP-00005 400-OP-00006 ORB-MB-00001 ORB-MB-00002 ORB-DB-00003 ORB-RB-10004 ORB-MB-00012 ORB-MB-00019	Build Standard Build Standard Build Standard Build Standard Build Standard Build Standard Build Standard Build Standard

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