



By Appointment to
Her Majesty The Queen
Manufacturers of Fire Detection & Alarm Products
Apollo Fire Detectors Limited
Hampshire



**Construction Products Regulation:
EU (No) 305/2011**

This Declaration has been drawn-up in accordance with Commission Delegated Regulation (EU) No. 574/2014 which amends Annex III of Regulation (EU) No 305/2011.

DECLARATION OF PERFORMANCE

No. E0018

1. Unique identification code of the product-type:

Model number and Description:

SA7100-100APO Addressable Beam Detector with Automatic Alignment

Approved Accessories:

0020-017 – Mounting Bracket,
29650-070 – IR Beam Detector
5000-067 – System Controller

Second Detector Head:

29650-069 Apollo Auto-Aligning Beam Detector and System Controller – The model 29650-069 is only approved to EN54-12:2015

Harmonised Product Type(s):

Smoke Detectors – Line detectors using an optical beam
Short Circuit Isolators

2. Intended use/es:

Fire safety

3. Manufacturer:

Apollo Fire Detectors Ltd,
36 Brookside Road, Havant, Hampshire, PO9 1JR, United Kingdom

4. Authorised representative:

Apollo GmbH
Gesellschaft für
Meldetechnologie mbH
Am Anger 31
33332 Gütersloh
Germany

5. System of AVCP

System 1

6a. Harmonised Standard(s)

EN 54-12:2015
EN 54-17:2005

6b. Notified Body:

DBI Certification A/S (Notified Body 2531)

A HALMA COMPANY



Apollo Fire Detectors Limited

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www.apollo-fire.co.uk

Apollo Fire Detectors Ltd. Registered in England No. 1483208
Registered Office: 36 Brookside Road, Havant, Hampshire, PO9 1JR VAT Registration No. GB 339 0553 54

7. Declared performance

Essential characteristics	Clauses in EN 54-12:2015	Regulatory classes	Performance	
Operational reliability:				
Individual alarm indication	4.2.1	None	Pass	
Connection of ancillary devices	4.2.2		Pass	
Manufacturer's adjustments	4.2.3		Pass	
Onsite adjustments of response value	4.2.4		Pass	
Protection of ingress of foreign bodies	4.2.5		Pass	
Monitoring of detachable detectors and connections	4.2.6		Pass	
Requirements for software controlled detectors	4.2.7		Pass	
Nominal activation conditions/Sensitivity:				
Reproducibility	4.3.1		Pass	
Repeatability	4.3.2		Pass	
Tolerance to beam misalignment	4.3.3		Pass	
Rapid change in attenuation	4.3.4		Pass	
Response to slowly developing fires	4.3.5		Pass	
Optical path length dependence	4.3.6		Pass	
Stray light	4.3.7		Pass	
Tolerance to supply voltage:				
Variation in supply parameters	4.4		Pass	
Performance parameters under fire conditions:				
Fire sensitivity	4.5		Pass	
Durability of nominal activation conditions/Sensitivity:				
temperature resistance				
Dry heat (operational)	4.6.1.1		Pass	
Cold (operational)	4.6.1.2		Pass	
Humidity resistance				
Damp heat, steady-state (operational)	4.6.2.1		Pass	
Damp heat, steady-state (endurance)	4.6.2.2		Pass	
Vibration resistance				
Vibration (endurance)	4.6.3.1		Pass	
Impact (operational)	4.6.3.2		Pass	
Electrical stability EMC immunity (operational)	4.6.4		Pass	
Corrosion resistance				
Sulphur dioxide (SO ₂) corrosion (endurance)	4.6.5	Pass		

Essential Characteristics	Standard EN 54-17:2005	Performance
Performance under fire conditions	5.2 ⁽¹⁾	Pass
Operational reliability	4	Pass
Durability of operational reliability: temperature resistance	5.4, 5.5	Pass
Durability of operational reliability: vibration resistance	5.9 to 5.12	Pass
Durability of operational reliability: humidity resistance	5.6, 5.7	Pass
Durability of operational reliability: corrosion resistance	5.8	Pass
Durability of operational reliability: electrical stability	5.3,5.13	Pass
1) This is assuming that the effect of the fire is to cause a short circuit in the transmission path that is protected by these devices		

8. Online Display Location

This document can be viewed online at www.apollo-fire.co.uk

The performance of the product identified above is in conformity with the set of declared performance/s.
This declaration of performance is issued, in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above

Signed for and on behalf of Apollo Fire Detectors Limited by:



Mr. David Robbins
Technical Director

Havant – 20.12.2022

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