



By Appointment to
Her Majesty The Queen
Manufacturers of Fire Detectors & 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. 0832-CPR-F0392

1. Unique identification code of the product-type:

Model number and Description:

29650-069 – Apollo auto aligning beam detector and system controller

Approved Accessories:

29650-070 – Additional detector head
0020-017 – Mounting Bracket

Harmonised Product Type(s):

Smoke detectors – Line detectors using an optical beam

2. Intended use/es:

Fire detection and fire alarm systems

3. Manufacturer:

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

4. Authorised representative:

N/A

5. System of AVCP

System 1

6a. Harmonised Standard(s)

EN54-12:2015 – Smoke detectors - Line detectors using an optical beam

6b. Notified Body:

BRE Global (Notified Body 0832)

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Apollo Fire Detectors Limited

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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 characteristic	Performance	Harmonized technical specification
Operational reliability: Individual alarm indication Connection of ancillary devices Manufacturer's adjustments On-site adjustment of response value Protection against the ingress of foreign bodies Monitoring of detachable detectors and connections Software controlled line detector using an optical beam	Integral red visible indicator Does not prevent correct operation Special means required Special means required, settings clearly marked Sphere of diameter 1,3mm cannot enter optics Fault signal given Documentation available, modular structure, invalid data not permitted, program deadlock avoided. site specific data in non-volatile memory with two-week retention	EN 54-12
Nominal activation conditions/Sensitivity: Reproducibility Repeatability Tolerance to beam misalignment Rapid changes in attenuation Response to slowly developing fires Optical path length dependence Stray light	$C_{min} \geq 0,4dB$, $C_{max} / C_{rep} \leq 1,33$, $C_{rep} / C_{max} \leq 1,5$ No fault or alarm signals for 3 days, $C_{min} \geq 0,4dB$, $C_{max} / C_{min} \leq 1,6$ Maximum angle of misalignment is X degrees, no fault or alarm signal within X degrees, alarm at X degrees within 30 s with 6dB filter Alarm signal within 30s with 6dB filter in front of receiver, fault signal within 60s with 12dB filter in front of receiver. Alarm signal not cancelled by fault. Drift compensation limited so that for fires developing faster than C/4 per hour the response value does not increase by more than $1,6 \times C$, where C is the initial response value. Compensation range limited. Alarm signal not cancelled by fault. $C_{min} \geq 0,4dB$, $C_{max} / C_{min} \leq 1,6$ No fault or alarm signals during conditioning, $C_{min} \geq 0,4dB$, $C_{max} / C_{min} \leq 1,6$	
Tolerance to supply voltage: Variation in supply parameters	$C_{min} \geq 0,4dB$, $C_{max} / C_{min} \leq 1,6$	
Performance parameters under fire conditions: Fire sensitivity	alarm signal in each test fire, with $ma < 0,7$ dB m-1	
Durability of nominal activation conditions/sensitivity: Temperature resistance Dry heat (operational) Cold (operational) Humidity resistance Damp heat, steady-state (operational) Damp heat, steady-state (endurance) Vibration resistance Vibration, (endurance) Impact (operational) Electrical Stability EMC immunity (operational) Sulfur dioxide (SO2) corrosion (endurance)	No fault or alarm signals during conditioning, Alarm signal within 30s with 6dB filter in front of receiver, $C_{min} \geq 0,4dB$, $C_{max} / C_{min} \leq 1,6$ No fault or alarm signals during conditioning, Alarm signal within 30s with 6dB filter in front of receiver, $C_{min} \geq 0,4dB$, $C_{max} / C_{min} \leq 1,6$ No fault or alarm signals during conditioning, $C_{min} \geq 0,4dB$, $C_{max} / C_{min} \leq 1,6$ $C_{min} \geq 0,4dB$, $C_{max} / C_{min} \leq 1,6$ $C_{min} \geq 0,4dB$, $C_{max} / C_{min} \leq 1,6$ No fault or alarm signals during conditioning apart from when the beam is obstructed by the apparatus, $C_{min} \geq 0,4dB$, $C_{max} / C_{min} \leq 1,6$ No false operation during conditioning, $C_{min} \geq 0,4dB$, $C_{max} / C_{min} \leq 1,6$ $C_{min} \geq 0,4dB$, $C_{max} / C_{min} \leq 1,6$	

Notes; Sensitivities: Sensitivity setting from 25% to 35% only Delay to fire setting between 2 and 20 seconds only	
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The performance of the product identified above is in the 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.

8. Online Display Location

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

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



Mr. Karl Westhead
Technical Director

Place and Date of Issue: Havant - 16 May 2019

(v1)

