



#### **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. E0095

# 1. Unique identification code of the product-type:

#### Model number and Description:

55000-315 Series 65 Conventional Optical Smoke Detector - Flashing LED/Reed Switch

#### Approved Accessories:

45681-200, 45681-201, 45681-245, 45681-246, 45681-247, 45681-248 Bases

### Harmonised Product Type(s):

Smoke Detectors – Point Detectors

#### Intended use/es:

Fire detection and fire alarm systems installed in and around buildings

#### 2. Manufacturer:

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

### 3. Authorised representative:

Apollo Gesellschaft für Meldetechnologie mbH Am Anger 31 33332 Gütersloh Deutschland

# 4. System(s) of AVCP

System 1

Harmonised Standard(s) 6

EN 54-7:2018

Notified Body/ies:

DBI Certification A/S (Notified Body 2531)

# A HALMA COMPANY





**Apollo Fire Detectors Limited** 36 Brookside Road, Havant, Hampshire, PO9 1JR, UK t +44 (0)23 9249 2912 f +44 (0)23 9249 2754 e sales@apollo-fire.co.uk

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 54-7:2018	Regulatory classes	Performance
Operational reliability:			
Individual alarm indication	4.2.1		The visual indicator(s) are visible from a distance of 6 m in an ambient light intensity up to 500 lx.
Connection of ancillary devices	4.2.2		Open or short circuit failures of connection to ancillary device did not prevent the correct operation of the detector
Monitoring of detachable detectors	4.2.3		A fault condition is signaled when the detector is removed from the mounting base.
Manufacturer's adjustments	4.2.4		It is not possible to adjust the detector settings without the use of a special tool to access into the detector or use of a code to enabling entry into the panel programming software.
On site adjustment of response behavior	4.2.5	None	The mode(s) of operation are adjustable from the Control and Indicating Equipment by use of a loop communication protocol. Access to enable mode changes is by software control of the protocol communication.
Protection against the ingress of foreign bodies	4.2.6		The chamber is designed so that a sphere of diameter (1,3±0,05) mm cannot pass into the sensor chamber.
Response to slowly developing fires	4.2.7		The provision of "drift compensation" (e.g. to compensate for sensor drift due to the build-up of dirt in the detector), does not lead to a significant reduction in the detectors sensitivity to slowly developing fires.
Software controlled detectors (when provided)	4.2.8		The software documentation and the software design complies with the requirements of EN 54-7:2018.
Nominal activation			
conditions/sensitivity:			
Repeatability	4.3.1		Ratio of response values $m_{max}:m_{min} \le 1.6$ Lower response value, $m_{max}:m_{min} \ge 0.05$ dB m <sup>-1</sup>
Directional dependence	4.3.2		$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Reproducibility	4.3.3	Threshold	Ratio of response values $m_{max}:\overline{m} \leq 1.33$ Ratio of the response values $\overline{m}: m_{min} \leq 1.5$ Lower response value, $m_{min} \geq 0.05$ dB $m^{-1}$
Response delay (response time):		-1	
Air movement	4.4.1		Ratio is > 0.0625 and < 1.60 and the point smoke detector did not emit a fault nor alarm signal during the test with aerosol-free air
Dazzling	4.4.2		The specimen did not emit neither an alarm nor a fault signal and Ratio of response thresholds m <sub>max</sub> :m <sub>min</sub> ≤ 1.6
Tolerance to supply voltage:			



Variation in supply parameters4.5Performance parameters under fire conditions:		
conditions:Fire sensitivity4.6Durability of nominal activation conditions/Sensitivity:4.6temperature resistance	Variation in supply parameters	4.5
conditions:Fire sensitivity4.6Durability of nominal activation conditions/Sensitivity:4.6temperature resistance		
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conditions:Fire sensitivity4.6Durability of nominal activation conditions/Sensitivity:4.6temperature resistance	Porformanco paramotors under fire	
Fire sensitivity       4.6         Durability of nominal activation conditions/Sensitivity:	•	
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conditions/Sensitivity: temperature resistance		
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e) Slow high energy voltage surge		
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	(operational)	

Ratio of response values m <sub>max</sub> :m <sub>min</sub> <
1.6
Lower response value, $m_{min} \ge 0.05 \text{ dB}$ $m^{-1}$
Evaluated as meeting the requirements
of TF2 toTF5
The specimen did not emit neither an
alarm nor a fault signal and Ratio of
response values m <sub>max</sub> :m <sub>min</sub> < 1.6
The specimen did not emit neither an
alarm nor a fault signal and Ratio of
response values m <sub>max</sub> :m <sub>min</sub> ≤ 1.6
The specimen did not emit neither an
alarm nor a fault signal and ratio of
response values m <sub>max</sub> :m <sub>min</sub> ≤ 1.6
No fault signal, attributable to the
endurance conditioning was given on
reconnection of the specimen and Ratio
of response values m <sub>max</sub> :m <sub>min</sub> ≤ 1.6
No fault signal, attributable to the
endurance conditioning was given on
reconnection of the specimen and Ratio
of response values $m_{max}:m_{min} \leq 1.6$
No fault signal given from the specimen
during the conditioning period or the
additional 2 min. and Ratio of response
values $m_{max}:m_{min} \leq 1.6$
No fault signal given from the specimen
during the conditioning period or the
additional 2 min. and Ratio of response
values $m_{max}:m_{min} \leq 1.6$
No fault signal given from the specimen
during the conditioning and Ratio of
response values m <sub>max</sub> :m <sub>min</sub> ≤ 1.6 No fault signal, attributable to the
endurance conditioning was given on
reconnection of the specimen and Ratio
of response values $m_{max}:m_{min} \le 1.6$
No alarm or fault signal given during the
conditioning and Ratio of response
values $m_{max}:m_{min} < 1.6$



## 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 – 27.07.2022

(v7)

