



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. E0075

1. Unique identification code of the product-type:

Model number and Description:

55000-136 Series 65 Conventional Class CS Heat Detector (With flashing LED)

Approved Accessories:

45681-200,45681-201,45681-245,4581-246,45681-247,45681-248 Bases

Harmonised Product Type(s):

Heat Detectors - Point Detectors

2. Intended use/es:

Point detectors for use in fire detection and fire alarm systems installed in and around buildings

3. Manufacturer:

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

4. Authorised representative:

Apollo Gesellschaft für Meldetechnologie mbH Am Anger 31 33332 Gütersloh Deutschland

5. System(s) of AVCP

System 1

6 Harmonised Standard(s)

EN 54-5:2017 + A1:2018

Notified Body/ies:

DBI Certification A/S (Notified Body 2531)

A HALMA COMPANY







Apollo Fire Detectors Limited

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7. Declared performance

-	Гable 1				
	Detector Category (Heat Class):	Typical Application Temperature	Maximum Application Temperature °C	Minimum Static Response Temperature °C	Maximum Static Response Temperature °C
	CS	55	80	84	100

Table 2- Response time limits

Rate of rise of air temperature K	CS				
min-1	Lower limit		Uper limit		
	Min	S	Min	S	
1	29	0	46	0	
3	7	13	16	0	
5	4	9	10	0	
10	2	0	5	30	
20	1	30	3	13	
30		40	2	25	

Performance

Essential characteristics	Clauses in EN 54-5:2017/ A1:2018	Regulatory classes	Performance
Operational reliability:			
Position of heat sensitive element	4.2.1		The heat sensitive element(s) or at least part of it, except elements with auxiliary functions (e.g.characteristic correctors), are a distance ≥15mm from the mounting surface of the point heat detector.
Individual alarm indication	4.2.2		Category CS The heat detector is provided with an integral red visual indicator and can remain identified until the alarm is reset. The visual indicator is visible from a distance of 6 m directly below the point heat detector, in an ambient light intensity up to 500 lx.
Connection of ancillary devices	4.2.3		Open or short circuit failures of connection to ancillary device do not prevent the correct operation of the detector
Monitoring of detachable point heat detectors	4.2.4	CS	A fault condition is signaled when the detector is removed from the mounting base.
Manufacturer's adjustments	4.2.5		It is not possible to change the maufacture's settings expept by special means (e.g. a special code or tool, or by breaking or remove a seal).
Onsite adjustments of response behavior	4.2.6	1	The response behaviour cannot be modified.
Software controlled detectors (when provided)	4.2.7		The detector does not incorporate any software controlled components.
Nominal activation conditions/Sensitivity:			
Directional dependence	4.3.1		The response time of the point dectetor do not unduly depend on the direction of airflow around the point heat detector.



Static response temperature	4.3.2		between the m	emperatures of sinimum and ma according to the sle 1 above.	ximun	n static resp	oonse
Response times from typical application temperature	4.3.3		The response times of the point heat detector lie between the lower and upper response time limits for the appropriate point heat detector category in Table 2 above. The response time at 3 K min ⁻¹ exceeds 7 min 13 s and the response time at 20 K min ⁻¹ exceeds 1 min 0 s.				
Response times from 25 °C	4.3.4						
Response times from high ambient temperature	4.3.5		No alarm or fault signal was given at high ambient temp appropriate to the anticipated service temepratures.				
			-	er limit, 1 min 20 s and upper limit 16 m. Fer limit, 12 s and upper limit 3 m 13 s.			
Reproducibility	4.3.6			imes of the poir response time			lie between the Table 2 above.
Response delay (response							
Additional test for suffix S point heat detectors	4.4.1		Suffix S point heat detector did not exceed the lower limits of response time during the transer period or during the 10 min exposure below.				
			Point heat detector category	Conditioning Temperature	°C	Airflow Tempera	ature °C
			CS	35 ±2		80 ±2	
				Rate of rise of air temperature K min ⁻¹		Lower Limit response time	
					Min	1	S
			3		9		40
			5		5		48
			10		2		54
			20		1		27
			30				58
Additional test for suffix R point heat detectors	4.4.2		N/A		<u>'</u>		
Tolerance to supply voltage:							
Variation in supply parameters	4.5		the supply para	detector does nameters and lie limits specified i	betwee	en the lowe	on variation in er and upper
Durability of nominal activation							
conditions/Sensitivity:							
cold (operational)	4.6.1.1		No alarm or fault signal was given during the transition to the conditioning temperature or during the period at the condition temperature				
			•				nin 13 s and did Obtained in 4.3.6



		CS: 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6
Dry heat (endurance)	4.6.1.2	No fault signal was given on reconnection attributable to the endurance conditioning
		Point heat detector Conditioning
		category Temperature °C
		CS 80 ±2
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		CS: 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6
Humidity resistance Damp heat, cyclic	4.6.2.1	No alarm or fault signal was given during the conditioning.
(operational)		Lower temperature: (25±3) °C Upper temperature: (40±2) °C
		Relative humidity: At lower temperature :≥ 95 % At upper temperature : (93 ±3) %
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		CS: 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6
Damp heat, steady-state (endurance)	4.6.2.2	No fault signal was given on reconnection attributable to the endurance conditioning.
		Conditioning Temperature: 40 ±2 °C Relative Humidity: 93 ±3 % Duration: 21 days
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		CS: 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6
Corrosion resistance Sulphur dioxide (SO ₂)	4.6.3	No fault signal was given on reconnection attributable to the
corrosion (endurance)	4.0.3	endurance conditioning.
		Conditioning Temperature: 25 ±2 °C
		Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		CS: 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6
Vibration resistance	1011	
Shock (operational)	4.6.4.1	No alarm or fault signal was given during the conditioning period or an additional 2 min.
J		



		For specimen with a mass ≤ 4,75 kg:
		Shock pulse type: Half sine Pulse duration: 6 ms Peak acceleration: 10X (100-20M) ms-2 (M is specimen mass in Kg) Number of directions: 6
		Pulses per direction: 3
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		CS: 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6
Impact (operational)	4.6.4.2	No alarm or fault signal was given during the conditioning period or an additional 2 min.
		Conditioning: Impact energy: 1,9 ±0,1 J Hammer velocity: 1,5 ±0,13 ms ⁻¹ Number of impacts: 1
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		CS: 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6
Vibration, sinusoidal (operational)	4.6.4.3	No fault signal was given during the conditioning Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms⁻²(≈0,5 gn) Number of axes: 3 Sweep rate: 1 octave min⁻¹ Number of sweep cycles: 1 per axis
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		CS: 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6
Vibration, sinusoidal (endurance)	4.6.4.4	No fault signal was given on reconnection attributable to the endurance conditioning.
		Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 10 ms⁻²(≈1,0 gn) Number of axes: 3 Sweep rate: 1 octave min⁻¹ Number of sweep cycles: 20 per axis
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		CS: 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6
Electrical stability EMC immunity (operational)	4.6.5	Compliance in EN 50130-4:2011 and No fault signal was given during the conditioning.
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		CS: 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6



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 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

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

Mr. David Robbins Technical Director Havant – 10.06.2022

(v5)

