



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. E0078

1. Unique identification code of the product-type:

Model number and Description:

55000-401 XP95 Analogue Addressable Class CS Heat Detector 55000-401LIM XP95 Analogue Addressable Class CS Heat Detector

Approved Accessories:

45681-210 - XP95 Mounting Base 45681-209 - XP95/Discovery Standard Deep Mounting Base

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



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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

Table 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	Cat 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 k.
Connection of ancillary devices	4.2.3	CS	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	_	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		N/A
Software controlled detectors (when provided)	4.2.7		The software documentation and the software design complies supplied by the manufacturer with the requirements of this standard.



4.3.1 4.3.2 4.3.3 4.3.4 4.3.5 4.3.5		
4.3.3 4.3.4 4.3.5		
4.3.4		
4.3.5		
4.3.6		
4.3.6	-	
	-	
	-	
4.4.1		
4.4.2		
	-	
4.5		
	4.4.1 4.4.2 4.5	4.4.2

response time of the point dectetor do not unduly depend he direction of airflow around the point heat detector.

response temperatures of the point heat detectors lie ween the minimum and maximum static response peratures, according to the category of the point heat ector in Table 1 above.

response times of the point heat detector lie between the er and upper response time limits for the appropriate point at detector category in Table 2 above.

response time at 3 K min⁻¹ exceeds 7 min 13 s and the ponse time at 20 K min⁻¹ exceeds 1 min 0 s.

alarm or fault signal was given at high ambient temperatures propriate to the anticipated service temepratures.

min⁻¹, Lower limit, 1 min 20 s and upper limit 16 m. K min⁻¹, Lower limit, 12 s and upper limit 3 m 13 s.

response times of the point heat detectors lie between the er ad upper response time limits specified in Table 2 above.

fix S point heat detector did not exceed the lower limits of ponse time during the transer period or during the 10 min osure below.

Point heat detector category	Conditioning Temperature °C	Airflow Temperature °C
CS	35 ±2	80 ±2

Rate of rise of air temperature K min ⁻¹	Lower Lim	Lower Limit response time	
	Min	S	
3	9	40	
5	5	48	
10	2	54	
20	1	27	
30		58	

point heat detector does not unduly depent on variation in supply parameters and lie between the lower and upper ponse time limits specified in Table 2 above.



Durability of naminal		
Durability of nominal activation		
conditions/Sensitivity:		
temperature resistance		
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
		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
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
		C 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) corrosion (endurance)	4.6.3	No fault signal was given on reconnection attributable to the 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		
Shock (operational)	4.6.4.1	No alarm or fault signal was given during the conditioning period or an additional 2 min.
		For specimen with a mass \leq 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 g _n)
		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 ms²(≈1,0 g _n) 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 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 – 17.01.2023

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