



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. E0034

1. Unique identification code of the product-type:

Model number and Description:

55000-440 XP95 IS Analogue Addressable Intrinsically Safe Class A2S Heat Detector 55000-440SIL XP95 IS Analogue Addressable Intrinsically Safe Class A2S Heat Detector

Approved Accessories:

45681-215 Intrinsically Safe 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







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

7. Declared performance

T	able 1				
	Detector Category (Heat Class):	Typical Application Temperature	Maximum Application Temperature °C	Minimum Static Response Temperature °C	Maximum Static Response Temperature °C
	A2S	25	50	54	70

Table 2- Response time limits

Rate of rise of air temperature K	Cat A2S			
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 A2S 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	A2S	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		N/A



Nominal activation conditions/Sensitivity:	
irectional dependence	4.3.1
tatic response temperature	4.3.2
Response times from typical application temperature	4.3.3
Response times from 25 °C	4.3.4
Response times from high ambient temperature	4.3.5
Reproducibility	4.3.6
Response delay (response time):	
Additional test for suffix S point heat detectors	4.4.1
Additional test for suffix R point heat detectors	4.4.2
Tolerance to supply voltage:	
Variation in supply parameters	4.5
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.
		A2S: 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
		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.
		A2S: 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 (operational)	4.6.2.1	No alarm or fault signal was given during the conditioning.
		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.
		A2S: 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.
		A2S: 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.
		A2S: 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.
L	l	



Shock pulse type: Half sine Pulse duration: 6 ms Peak acceleration: 10X (100 20M) ms 2 (M is specimen mass in Natural Pulse duration: 6 ms Peak acceleration: 10X (100 20M) ms 2 (M is specimen mass in Natural Pulse of directions: 6 Rumper of directions: 6 Rumper of directions: 6 Rumper of directions: 6 Rumper of directions: 8 Response time at 3 K min* 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. A25: 20 K min * was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min * 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. A25: 20 K min * 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. A25: 20 K min * 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. A25: 20 K min * 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. A25: 20 K min * 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. A25: 20 K min * 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. A25: 20 K min * 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. A25: 20 K min * 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. A25: 20 K min * was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min * was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min * was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min * was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min * was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min * was			For specimen with a mass ≤ 4,75 kg:
Number of directions: 6 Pulses per direction: 3 Response time at 3 K min¹ 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. A25: 20 K min² was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. No alarms of raturi signal was given during the conditioning period or an additional 2 min. Conditioning: Impact energy: 1,9:0.1 Hammer velocity: 1,5:0.13 ms¹ Number of impacts: 1 Response time at 3 K min² 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. A25: 20 K min² was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min² was provided the time obtained in 4.3.6. No fault signal was given during the conditioning Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms² (=0,5 g,) Number of swes; 3 Sweep rate: 1 octave min² Number of swes; 3 Sweep rate: 1 octave min² Number of swes; 10 min² 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. A25: 20 K min² was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min² was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min² was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min² was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min² was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min² was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min² was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min² was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 20 K min² was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. A25: 2			Pulse duration: 6 ms
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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

(v7)

