



CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

55000-132 Series 65 Conventional Class CR Heat Detector

The product fulfils the essential characteristic:

See Annex 1

Intended use: Applications related to automatic fire alarm systems

Placed on the market under the name or trade mark of:

Apollo Fire Detectors Ltd. 36 Brookside Road,

Havant, Hampshire GB-P09 1JR

United Kingdom

and produced in the manufacturing plant:

Apollo Fire Detectors Ltd. 36 Brookside Road, Havant, Hampshire GB-P09 1JR United Kingdom

This attests that all provisions concerning the performance described in Annex ZA of the standard(s)

EN 54-5:2017/A1:2018 : Fire detection and fire alarm systems –

Part 5: Heat detectors - point heat detectors

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

CONSTANCY OF PERFORMANCE OF THE CONSTRUCTION PRODUCT.

This certificate was first issued on 2019-10-09 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

The attached annexes form part of this certificate.

Date of issue: 2022-06-10.

(This certificate supersedes the previous version of this certificate issued 2019-10-09)

Merete Poulsen Responsible for evaluation

Steen Nilsson
Responsible for certification decision

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Annex 1

EXTENT

Model Reference:

55000-132 Series 65 Conventional Class CR Heat Detector

Variant:

55000-132LIM (branded af Limotec)

Bases:

45681-200 Series 60/65 Mounting Base

45681-201 Series 60/65 Diode Mounting Base

45681-245 Series 65 Relay Mounting Base

45681-246 Series 65 Auxiliary Mounting Base

45681-247 Series 65 EOL 12 Volt Mounting Base

45681-248 Series 65 EOL 24 Volt Mounting Base

Note:

1. Meets the requirements of EN54: Part 5 at Class CR

Description:

Class C Adressable Heat Detector intend for use in fire detection and fire alarm systems intalled in and around buldings. With additional test for Suffix R detectors.

Operating Voltage:

9 to 33 V DC

Heat Response Catergory:

*For detector categories with the suffix S or R, additional requirements are needed see 4.4.1 or 4.4.2

Table 1

	Detector Category	Typical Application	Maximum Application	Min	imum Static		Maximum Static
1	(Heat Class):	Temperature	Temperature °C	Res	ponse		Response Temperature
				Ten	nperature °C		°C
	CR	55	80			84	100

Table 2- Response time limits

Rate of rise of	Cat CR					
air temperature K 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		



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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 CR 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 n directly below the point heat detector, in an ambient ligh 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		A fault condition is signaled when the detector is remove 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 b breaking or remove a seal).
Onsite adjustments of response behavior	4.2.6		The response behaviour cannot be modified.
Software controlled detectors (when provided)	4.2.7	- CR	The detector does not incorporate any software controlled components.
Nominal activation conditions/Sensitivity:		1	
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		The response temperatures of the point heat detectors I between the minimum and maximum static response temperatures, according to the category of the point heat detector in Table 1 above.
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.
Response times from 25 °C	4.3.4		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 high ambient temperature	4.3.5		No alarm or fault signal was given at high ambient temperatures appropriate to the anticipated service temepratures.



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		3 K min ⁻¹ , Lower limit, 1 min 20 s and upper limit 16 m. 20 K min ⁻¹ , Lower limit, 12 s and upper limit 3 m 13 s.
Reproducibility	4.3.6	The response times of the point heat detectors lie between the lower ad upper response time limits specified in Table 2 above.
Response delay (response time):		
Additional test for suffix S point heat detectors	4.4.1	N/A
Additional test for suffix R point heat detectors	4.4.2	Suffix R, the point heat detector maintains the response requirements of its category, in table 2 above, for high rates of rise of temperature from an initial temperature below the typical application temperature applicable to the category marked on it.
		Point heat detector Initial conditioning category temperature °C
		CR 35 ±2
Tolerance to supply		
voltage: Variation in supply parameters	4.5	The point heat detector does not unduly depent on variation in the supply parameters and lie between the lower and upper response time limits specified in Table 2 above.
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
		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.
		CR: 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
		CR 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.
		CR: 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



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Damp heat, cyclic (operational) 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: (93 ±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. CR: 20 K min¹ was not less than 1 min and did not excee 30 s compared with the time obtained in 4.3.6. 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 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. CR: 20 K min¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. CR: 20 K min³ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. CR: 20 K min³ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. CR: 20 K min³ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. Response time at 3 K min³ 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. Response time at 3 K min³ 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.	Humidity resistance		
Lower temperature: (25±3) "C Upper temperature: (40±2) "C Relative humidity: At lower temperature: (29±3) % At upper temperature: (29±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. CR: 20 K min¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. 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 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. CR: 20 K min¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. CR: 20 K min¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. CR: 20 K min¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. CR: 20 K min² was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2 "C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±6 ppm (by volume) Duration: 21 days Response time at 3 K min² was not less than 2 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. CR: 20 K min² 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) A.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg:		4.6.2.1	No alarm or fault signal was given during the
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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. CR: 20 K min ⁻¹ was not less than 1 min and did not excee 30 s compared with the time obtained in 4.3.6. 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. CR: 20 K min ⁻¹ was not less than 1 min and did not excee 30 s compared with the time obtained in 4.3.6. CR: 20 K min ⁻¹ was not less than 1 min and did not excee 30 s compared with the time obtained in 4.3.6. CR: 20 K min ⁻¹ was not less than 1 min and did not excee 30 s compared with the time obtained in 4.3.6. Controlioning 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. CR: 20 K min ⁻¹ was not less than 1 min and did not excee 30 s compared with the time obtained in 4.3.6. Vibration resistance Shock (operational) 4.6.4.1			
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Conditioning Temperature: 40 ±2 °C Relative Humidity: 93 ±3 % Duration: 21 days 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. CR: 20 K min¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6 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 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. CR: 20 K min¹ 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 ≤ 4,75 kg:		4.0.2.2	
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conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg:	Vibration resistance		
For specimen with a mass ≤ 4,75 kg:	Shock (operational)	4.6.4.1	
			conditioning period or an additional 2 min.
Shock nulse type: Half sine			For specimen with a mass ≤ 4,75 kg:
I I NOCK DITISE TABLE SIDE			Chaple medan home. Half attra
Pulse duration: 6 ms			
		<u> </u>	ruise uuratioit. 0 iiis



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		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.
	4642	CR: 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.
		CR: 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.
		CR: 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 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.
		CR: 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



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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.
		CR: 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

Annex 2

TEST DOCUMENTATION

Accredited Laboratory	Report no.	Date
VdS	BMA 00018	2000-03-03
BRE	P122562-AB	2022-03-21

TECHNICAL BASIS

TECHNICAL BA	1313			
	File Number		Title	
55000-132		Build Standard		
45681-200		Build Standard		
45681-201		Build Standard		
45681-245		Build Standard		
45681-246		Build Standard		
45681-247		Build Standard		
45681-248		Build Standard		



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