

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

55000-885 XP95 Analogue Addressable Multi-Sensor 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 certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

EN 54-7:2018

: Fire detection and fire alarm systems - part 7: Smoke detectors - Point smoke detectors that operate using scattered light, transmitted light or ionization

under system 1 for the performance set out in this certificate are applied and that the performance of the construction product is assessed to remain constant.

The attached annexes form part of this certificate.

Date of issue: 2020-07-01.

This certificate will remain valid as long as neither the harmonized 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

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

This certificate was first issued 2019-10-09.

Thomas Anthony Wilson Responsible for evaluation

Merete Poulsen Responsible for certification decision



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Annex 1

EXTENT

Type:

55000-885 XP95 Analogue Addressable Multi-Sensor Detector

Variant:

55000-885LIM (branded as Limotec)

Bases:

45681-209 XP95/Discorvery standard deep mounting base 45681-210 XP95 mounting base

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	None	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		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.



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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} ≤ 1.6 Lower response value, m _{max} :m _{min} ≥ 0.05 dB m ⁻¹
Directional dependence	4.3.2		Ratio of response values $m_{max}:m_{min} \le 1.6$ Lower response value, $m_{max}:m_{min} \ge 0.05 \text{ dB m}^{-1}$
Reproducibility	4.3.3		Ratio of response values $m_{max}:\overline{m} \le 1.33$ Ratio of the response values $\overline{m}: m_{min} \le 1.5$ Lower response value, $m_{min} \ge 0.05 \text{ dB m}^{-1}$
Response delay (response time):			
Air movement	4.4.1	Threshold	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 _{max} :m _{min} ≤ 1.6
Tolerance to supply voltage:			
Variation in supply parameters	4.5		Ratio of response values m _{max} :m _{min} < 1.6 Lower response value, m _{min} <u>></u> 0.05 dB m ⁻¹
Performance parameters under fire conditions:			
Fire sensitivity	4.6		Evaluated as meeting the requirements of TF2 toTF5
Durability of nominal activation conditions/Sensitivity:			
temperature resistance			
Cold (operational)	4.7.1.1		The specimen did not emit neither an alarm nor a fault signal and Ratio of response values m _{max} :m _{min} ≤ 1.6



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Dry heat (operational)4.7.1.2The specimen did neither an alarm n signal and Ratio of values mmax:mmiHumidity resistanceDamp heat, steady-state (operational)4.7.2.1The specimen did neither an alarm n signal and ratio of	or a fault
Damp heat, steady-state (operational) 4.7.2.1 The specimen did neither an alarm n	
neither an alarm n	
values m _{max} :m _{mi}	ior a fault response
Damp heat, steady-state (endurance) 4.7.2.2 No fault signal, attri the endurance com was given on recom the specimen and response val mmax:mmin ≤ mmax	nditioning nection of I Ratio of ues
Corrosion resistance	
Sulphur dioxide (SO2) corrosion (endurance) 4.7.3 No fault signal, attri the endurance con was given on recon the specimen and response val mmax:mmin ≤ mmax:mmin ≤	nditioning nection of I Ratio of ues
Vibration resistance	
Shock (operational) 4.7.4.1 No fault signal giver specimen durin conditioning perior additional 2 min. ar response val mmax:mmin ≤	ng the od or the nd Ratio of ues
Impact (operational) 4.7.4.2 Impact (operational) 4.7.4.2 No fault signal giver specimen durin conditioning perior additional 2 min. ar response val mmax: mmin ≤	ng the od or the nd Ratio of ues
Vibration, sinusoidal (operational) 4.7.4.3 No fault signal giver specimen durin conditioning and response val mmax:mmin ≤	n from the ng the Ratio of ues
Vibration, sinusoidal (endurance) 4.7.4.4 Vibration, sinusoidal (endurance) 4.7.4.4 No fault signal, attri the endurance com was given on recon the specimen and response val mmax:mmin ≤	nditioning nection of Ratio of ues
Electrical stability EMC immunity (operational) 4.7.5 No alarm or fault significant of the conditional o	
a) Electrostatic discharge (operational) Ratio of response	e values
b) Radiated electromagnetic fields (operational) $m_{max}:m_{min} \leq m_{max}:m_{min} < m_{min} < m_{min} < m_{min} < m_{min} < m_{min} < m$	1.6
c) Conducted disturbances(operational)	
d) Fast transient bursts (operational)	
e) Slow high energy voltage surge (operational)	



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Annex 2

TEST DOCUMENTATION

Accredited Laboratory	Report no.	Date
BRE	TE 209309	23 May 2002
BRE	TE 238037	28 January 2008
BRE	TE 238037-SW	29 January 2008
BRE	TE301792 Issue: 1	09 June 2015
LPC	TE 90373	29 December 1998
LPC	TE 93009	12 October 1999
BRE	TE-P117352 Issue: 1	09 June 2020

TECHNICAL BASIS

File Number	Title
55000-885	Build Standard
45681-209	Build Standard
45681-210	Build Standard





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