

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

55000-540 Analogue Addressable Intrinisically Safe XP95 Ionisation Smoke 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, P09 1JR United Kingdom
and produced in the manufacturing pla	ant: Apollo Fire Detectors Ltd. 36 Brookside Road Havant, Hampshire, P09 1JR United Kingdom
This attests that all provisions concern	ing the performance described in Annex ZA of the standard(s)
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 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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: 2022-07-07.

(This certificate supersedes the previous version of this certificate issued 2022-02-10)

Merete Poulsen Responsible for evaluation

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Steen Nilsson Responsible for certification decision



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Annex 1

EXTENT

Type:

55000-540 Analogue Addressable Intrinisically Safe XP95 Ionisation Smoke Detector

Variant:

55000-540SIL Analogue Addressable Intrinsically Safe XP95 Ionisation Smoke Detector

Base:

45681-215 Intrinsically Safe 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.
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.

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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:			7.2010.
Repeatability	4.3.1		Ratio of response values $m_{max}:m_{min} \le 1.6$ Lower response value, $m_{max}:m_{min}$ > 0.05 dB m ⁻¹
Directional dependence	4.3.2		Tatio of response values m _{max} :m _{min} ≤ 1.6 Lower response value, m _{max} :m _{min} ≥ 0.05 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, $m_{min} \ge 0.05$ dB m ⁻¹
Response delay (response time):			
Air movement	4.4.1		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} : $m_{min} \leq 1.6$
Tolerance to supply voltage:		Threshold	
Variation in supply parameters	4.5		Ratio of response values $m_{max}:m_{min} < 1.6$ Lower response value, $m_{min} \ge$ 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 $m_{max}:m_{min} \leq 1.6$
Dry heat (operational)	4.7.1.2		The specimen did not emit neither an alarm nor a fault signal and Ratio of response values $m_{max}:m_{min} \le 1.6$
Humidity resistance			
Damp heat, steady-state (operational)	4.7.2.1		The specimen did not emit neither an alarm nor a fault signal and ratio of response values $m_{max}:m_{min} \leq 1.6$
Damp heat, steady-state (endurance)	4.7.2.2		No fault signal, attributable to the endurance conditioning was given on reconnection of the



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Corrosion resistance Sulphur dioxide (SO2) corrosion (endurance) Vibration resistance Shock (operational) Impact (operational)	4.7.3	values $m_{max}:m_{min} \leq 1.6$ No fault signal, attributable to the endurance conditioning was given on reconnection of the specimen and Ratio of response values $m_{max}:m_{min} \leq 1.6$ No fault signal given from the specimen during the conditioning period or the additional 2 min. and Ratio of response values $m_{max}:m_{min} \leq 1.6$ No fault signal given from the specimen during the conditioning period or the additional 2 min. and Ratio of response values $m_{max}:m_{min} \leq 1.6$ No fault signal given from the conditioning the conditioning period or the additional 2 min. and Ratio of response values
Vibration resistance Shock (operational)	4.7.4.1	the endurance conditioning was given on reconnection of the specimen and Ratio of response values $m_{max}:m_{min} \le 1.6$ No fault signal given from the specimen during the conditioning period or the additional 2 min. and Ratio of response values $m_{max}:m_{min} \le 1.6$ No fault signal given from the
Shock (operational)		specimen during the conditioning period or the additional 2 min. and Ratio of response values $m_{max}:m_{min} \leq 1.6$ No fault signal given from the
		specimen during the conditioning period or the additional 2 min. and Ratio of response values $m_{max}:m_{min} \leq 1.6$ No fault signal given from the
Impact (operational)	4.7.4.2	
		specimen during the conditioning period or the additional 2 min. and Ratio of response values $m_{max}:m_{min} \leq 1.6$
Vibration, sinusoidal (operational)	4.7.4.3	No fault signal given from the specimen during the conditioning and Ratio of response values $m_{max}:m_{min} \le 1.6$
Vibration, sinusoidal (endurance)	4.7.4.4	No fault signal, attributable to the endurance conditioning was given on reconnection of the specimen and Ratio of response values m _{max} :m _{min} ≤ 1.6
Electrical stability EMC immunity (operational) a) Electrostatic discharge (operational)	4.7.5	
b) Radiated electromagnetic fields (operational) c) Conducted disturbances(operational)		No alarm or fault signal given during the conditioning and Ratio of response values m _{max} :m _{min} ≤
d) Fast transient bursts (operational)		1.6
e) Slow high energy voltage surge (operational)		



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Annex 2

TEST DOCUMENTATION

Accredited Laboratory	Report no.	Date
LPC	TE 88019	1997-02-25
LPC	TE 89125	1997-09-06
LPC	TE 90086	1998-01-06
BRE	TE 223930	2005-12-09
BRE	TE292207 Issue: 1	2015-08-25
BRE	TE292207 Issue: 2	2015-11-02
BRE	AB-P118559	2022-01-20
BRE	TE-P105641-1001 Issue: 1	2018-10-31

TECHNICAL BASIS

File Number	Title
55000-540 45681-215	Build Standard Build Standard



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