



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. E0184

1. Unique identification code of the product-type:

Model number and Description:

SA5100-600 Soteria Analogue Addressable Optical Smoke Detector with Short Circuit Isolator SA5100-600LIM Optical Smoke Detector with Short Circuit Isolator

Approved Accessories:

SA5000-200 Addressable XPERT 8 Mounting Base 45681-210 XP95 Mounting Base

Harmonised Product Type(s):

Smoke Detectors – Point Detectors Short Circuit Isolators

2. Intended use/es:

Fire detection and fire alarm systems installed in and around buildings Fire safety

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 54-7:2018 EN 54-17:2005

Notified Body/ies:

DBI Certification A/S (Notified Body 2531)

A HALMA COMPANY







Apollo Fire Detectors Limited

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7. Declared performance

Individual alarm indication	e of 6 m in an sity up to 500 lx. reuit failures of illary device did rect operation of ector signaled when moved from the base. The to adjust the rithout the use of access into the of a code to nto the panel g software. Toperation are he Control and nent by use of a ation protocol.
Individual alarm indication 4.2.1 The visual indicator from a distance ambient light intens Open or short circ connection to anci not prevent the corn the detector is rem mounting Manufacturer's adjustments 4.2.4 Manufacturer's adjustments 4.2.4 The visual indicator from a distance ambient light intens Open or short circ connection to anci not prevent the corn the detector is rem mounting. A fault condition is the detector is rem mounting. It is not possible detector settings with a special tool to a detector or use enabling entry in programming. On site adjustment of response behavior None None None The wisual indicator from a distance ambient light intens. A fault condition is the detector is rem mounting. It is not possible detector settings with a special tool to a detector or use enabling entry in programming. The mode(s) of adjustable from the lindicating Equipment loop communical.	e of 6 m in an sity up to 500 lx. reuit failures of illary device did rect operation of ector signaled when moved from the base. The to adjust the rithout the use of access into the of a code to nto the panel g software. Toperation are he Control and nent by use of a ation protocol.
Connection to ancinot prevent the corruthe detectors Monitoring of detachable detectors 4.2.3 A fault condition is the detector is ren mounting It is not possible detector settings with a special tool to a detector or use enabling entry in programming On site adjustment of response behavior None Connection to ancinot prevent the corruthe detector is ren mounting It is not possible detector settings with a special tool to a detector or use enabling entry in programming The mode(s) of adjustable from the lindicating Equipment loop communical	illary device did rect operation of ector s signaled when moved from the base. e to adjust the rithout the use of access into the of a code to nto the panel g software. operation are he Control and nent by use of a ation protocol.
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On site adjustment of response 4.2.5 behavior None The mode(s) of control adjustable from the lindicating Equipment loop communications.	operation are he Control and nent by use of a ation protocol.
Access to enable m by software control communic	mode changes is of the protocol
Protection against the ingress of foreign bodies 4.2.6 The chamber is designed sphere of diameter cannot pass into chamber.	r (1,3±0,05) mm to the sensor
Response to slowly developing fires 4.2.7 The provisio compensation" (e.g for sensor drift due t dirt in the detector), a significant red detectors sensiti developing	g. to compensate to the build-up of , does not lead to duction in the tivity to slowly
Software controlled detectors (when provided) 4.2.8 The software documents of the software design the requirements of the software documents of the software	umentation and In complies with
Nominal activation conditions/sensitivity:	
Repeatability 4.3.1 Ratio of response v ≤ 1.6 Lower response va 0.05 dB	6 alue, m _{max} :m _{min} <u>></u>
Directional dependence 4.3.2 Ratio of response v ≤ 1.6 Lower response va 0.05 dB	values m _{max} :m _{min} 6 alue, m _{max} :m _{min} <u>></u>
Reproducibility 4.3.3 Threshold Ratio of response value in the	values m _{max} : \overline{m} ≤ 3 ponse values ≤ 1.5 alue, m _{min} ≥ 0.05
Response delay (response time):	
4.4.1 Ratio is > 0.062	25 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, $m_{min} \ge 0.05$ 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 mmax:mmin < 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} ≤ 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} ≤ 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 specimen and Ratio of response values $m_{max}:m_{min} \leq 1.6$
Corrosion resistance Sulphur dioxide (SO ₂) corrosion	4.7.3	No facilit airmal attailm talla to the
(endurance)	4.7.3	No fault signal, attributable to the endurance conditioning was given on reconnection of the specimen and Ratio of response values $m_{max}:m_{min} \leq 1.6$
Vibration resistance	4744	N. 6. 16 : 1 : 6 : 11
Shock (operational)	4.7.4.1	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} ≤ 1.6
Impact (operational)	4.7.4.2	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} ≤ 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} ≤ 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)	4.7.5	No alarm or fault signal given during the conditioning and Ratio of response values m _{max} :m _{min} ≤ 1.6



a) Electrostatic discharge (operational)		
b) Radiated electromagnetic fields (operational)		
c) Conducted disturbances(operational)		
d) Fast transient bursts (operational)		
e) Slow high energy voltage surge (operational)		

Essential Characteristics	Standard EN54-17:2005	Performance	
Performance under fire conditions	5.2 ⁽¹⁾	Pass	
Operational reliability	4	Pass	
Durability of operational reliability: temperature resistance	5.4, 5.5	Pass	
Durability of operational reliability: vibration resistance	5.9 to 5.12	Pass	
Durability of operational reliability: humidity resistance	5.6, 5.7	Pass	
Durability of operational reliability: corrosion resistance	5.8	Pass	
Durability of operational reliability: electrical stability	5.3,5.13	Pass	

¹⁾ This is assuming that the effect of the fire is to cause a short circuit in the transmission path that is protected by these devices

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 the 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 – 15.12.2022

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