

**Schneider Electric Fire & Security Oy
DECLARATION OF PERFORMANCE
No. DP20037GB**

This document is a declaration of performance that the products identified below conform to the essential requirements that have been specified in the European Regulation 305/2011 covering construction products.

1. Unique identification code of the product-type:

Description: **Sounders**

Model number(s): **Addressable Sounder ESI-40, Addressable Sounder ESI-50 (FFS06728040, FFS06728050)**

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4) of the CPR:

Each individual product is identified with a label containing a production date code with build standard number

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Fire detection and fire alarm systems

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):

**Apollo Fire Detectors Ltd,
36 Brookside Road, Havant, Hampshire, PO9 1JR
CC0321 and APOLBECN.01**

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

**Schneider Electric Fire & Security Oy
Sokerilinnantie 11 C
02600 Espoo
Finland**

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

System 1

7. Notified Body:

DBI Certification A/S (Notified Body 2531)

EC Certificate Number(s): **2531-CPR-CSP11134**

8. European Technical Assessment:

Not applicable

9. Declared performance

Essential characteristics	Declared Performance	Harmonised technical specification
Performance under fire condition	<p>1) Sounders are compliant with clause 4.2 Sound level section. Sound levels are given in data sheet PP2203.</p> <p>2) As per clause 4.3 sound frequencies, frequency ranges and sound patterns have been declared in relevant installation guides and PP guides</p> <p>3) Sounders are compliant with clause 5.2 Reproducibility test. Mentioned test confirmed that the sound output of the sounders does not vary unduly from specimen to specimen and established sound output data for comparison with the sound output measured during and/or after specified environmental tests</p> <p>4) Sounders are compliant with clause 5.3 Operational performance test. Mentioned test confirmed that the sound levels declared by the manufacturer can be achieved within the specified ranges of supply parameters and is not unduly dependent on these parameters, and that the maximum A-weighted sound level does not exceed 120 dB at 1m</p>	EN54-3:2001 + A1:2002/A2:2006
Operational reliability	<p>1) As per clause 4.4 and 5.4 sounders are rated for at least 100 hours operation. No limitation by the manufacturer on duty factor or maximum on-time prevented the devices from operating the 1h 'on' 1h 'off' cycle required by the test procedure. Durability test confirmed that the sound level does not change significantly after prolonged operation of the audible alarm device</p> <p>2) Sounders comply with Construction clause 4.5</p> <p>3) Sounders are clearly marked and required data is provided to comply with clause 4.6 requirements</p>	
Durability of operational reliability; temperature resistance	<p>1) Sounders are compliant with clause 5.5 Dry heat (operational) test. Mentioned test demonstrated the ability of the sounders to function correctly at high ambient temperatures</p> <p>2) Sounders are compliant with clause 5.6 Dry heat (endurance) test. Mentioned test demonstrated the ability of the sounders to withstand long-term ageing effects ¹⁾</p> <p>3) Sounders are compliant with clause 5.7 Cold (operational) test. Mentioned test demonstrated the ability of the sounders to function correctly at low ambient temperatures appropriate to the anticipated service environment</p> <p>4) Sounders are compliant with clause 5.8 Damp heat, cyclic (operational) test. Mentioned test demonstrated the immunity of the sounders to an environment with high relative humidity, where condensation may occur on the devices</p> <p>5) Sounders are compliant with clause 5.9 Damp heat, steady state (endurance) test. Mentioned test demonstrated the ability of the sounders to withstand the long-term effects of humidity in the service environment (e.g. changes in the electrical properties due to absorption, chemical reactions involving moisture, galvanic corrosion etc.)</p>	
Durability of operational reliability; humidity resistance	<p>1) Sounders are compliant with clause 5.8 Damp heat, cyclic (operational) test. Mentioned test demonstrated the immunity of the sounders to an environment with high relative humidity, where condensation may occur on the devices</p> <p>2) Sounders are compliant with clause 5.9 Damp heat, steady state (endurance) test. Mentioned test demonstrated the ability of the sounders to withstand the long-term effects of humidity in the service environment (e.g. changes in the electrical properties due to absorption, chemical reactions involving moisture, galvanic corrosion etc.)</p> <p>3) Sounders are compliant with clause 5.10 Damp heat, cyclic (endurance) test. Mentioned test demonstrated the ability of the sounders to withstand the longer-term effects of high humidity and condensation¹⁾</p>	
Durability of operational reliability; corrosion resistance	<p>1) Sounders are compliant with clause 5.11 SO₂ corrosion (endurance) test. Mentioned test demonstrated the ability of the sounders to withstand the corrosive effects of sulphur</p>	

	dioxide as an atmospheric pollutant	EN54-3:2001 + A1:2002/A2:2006
Durability of operational reliability; stock and vibration resistance	<p>1) Sounders are compliant with clause 5.12 Shock (operational) test. Mentioned test demonstrated the immunity of the sounders to mechanical shocks in the anticipated service environment</p> <p>2) Sounders are compliant with clause 5.13 Impact (operational) test. Mentioned test demonstrated the immunity of the sounders to mechanical impacts upon their surface</p> <p>3) Sounders are compliant with clause 5.14 Vibration, sinusoidal (operational) test. Mentioned test demonstrated the immunity of the sounders to vibration at levels considered appropriate to the normal service environment</p> <p>4) Sounders are compliant with clause 5.15 Vibration, sinusoidal (endurance) test. Mentioned test demonstrated the ability of the audible alarm devices to withstand the long-term effects of vibration at levels appropriate to the service environment</p>	
Durability of operational reliability; electrical stability	1) Sounders are compliant with clause 5.16 Electromagnetic compatibility (EMC), immunity tests (operational). Mentioned tests demonstrated the immunity of the sounders to electrostatic discharges, electromagnetic fields and fast low energy and slow high energy transients ²⁾	
Durability of operational reliability; resistance to ingress	1) Sounders are compliant with clause 5.17 Enclosure protection test. Mentioned test demonstrated that the degree of protection provided by the enclosure of the fire alarm sounders, with regard to the ingress of solid foreign objects and the harmful effects due to the ingress of water, met the minimum requirements	

¹⁾Applies only to outdoor sounders

²⁾Applies only to sounders with active electronic components

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 5.

Signed for and on behalf of the manufacturer by:

Espoo Finland 18.08.2020



Atte Pihlava

Product Manager