



# Certificate of Constancy of Performance

## 0359-CPR-00438



### Appendix to Certificate of Constancy of Performance 0359-CPR-00438

The details and conditions of use for the Cooper Lighting and Safety Limited Conventional and BiWire sounder beacon placed on the market by;

#### Cooper Fulleon Limited

Llantarnam Park, Cwmbran, GWENT, NP44 3AW, United Kingdom

To be used in accordance with the supplier's installation instructions and in conjunction with the following bases, ancillaries, sounder tones and sensitivity settings (*where applicable*):

#### Products compliant with EN54-3:2001+A1:2002+A2:2006

Variant	Manufacturing Location	Description
SQG3-23	CPRCOOUK.1	Conventional / BiWire Ultra sounder beacon

#### Products compliant with EN54-23:2010

Variant	Manufacturing Location	Description
SQG3-23	CPRCOOUK.1	Conventional / BiWire Ultra sounder beacon

#### Bases / Base Plates:

Variant	Description
26-280	Fixing plate

#### Accessories:

Variant	Description
26-305-027C	Cover Plate

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0359-CPR-00438  
Issue 1

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### Compliant settings: EN54-3:2001+A1:2002+A2:2006

The sounders and sounder beacons are compatible with the following tones and volume settings:-

	Models SQG3-23		
Tone	Volume	Switch A (Tone)	Switch B (Volume)
Continuous (910Hz)	High and Low Volume	1=On 2=On	1 – Off=High On=Low
Bell (1440Hz)	High and Low Volume	1=Off 2=On	1 – Off=High On=Low
Alternating (610/910Hz)	High and Low Volume	1=On 2=Off	1 – Off=High On=Low

### Compliant settings: EN54-23:2010

Model SQG3-23 is compliant with Open Class.

#### Limitations:

1. When mounted as a ceiling mount device, the maximum downwards coverage is declared by the manufacturer to be 90 cm from the front face of the unit on products SQG3-23. The coverage shape emitted by the subject products does not approximate to either a cylinder when ceiling mounted or a cuboid when wall mounted. The declaration of downward coverage is defined within the manufacturer's installation instructions, 25-12947-C dated September 2014.

#### Conditions of use:

1. The sounder beacons listed are approved as Category 'O' devices as defined in EN54-23:2010 Clause 4.3.1.4. These products have a specific coverage volume and shape and reference should be made to the manufacturer's installation instructions to determine the suitability of the product for the intended application.
2. All variants are suitable for indoor use only.
3. The products listed are designed to operate as part of a conventional system or a BiWire Ultra system and should be used with suitable compatible control and indicating equipment.
4. Reference is made to the 'Limitations' section on this certificate.

#### General Notes:

1. Evaluated under Intertek project number 101597042
2. The sounder beacons did not meet the requirements of Clause 5.3.2 – Variation in luminous intensity as a reading could not be taken at the 90' angle. Readings were taken at an angle of 45' to verify that the variation of luminous intensity requirement was met.
3. CE or other type approval is made or inferred outside of the attestation of conformity and the product performance as stipulated on this certificate.

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### Appendix to Certificate of Constancy of Performance 0359-CPR-00438 (continued)

Table of performance for EN54-3:2001+A1:2002+A2:2006 Harmonised technical specification			
Essential characteristics	Performance	Clauses	Notes
Performance under fire conditions	Pass	4.2, 4.3, 5.2, 5.3, C.3.1, C.3.2, C.5.1, C.5.2, C.5.3	a), b)
Operational reliability	Pass	4.4, 4.5, 4.6, 5.4, C4	
Durability of operational reliability: temperature resistance	Pass	5.5, 5.6, 5.7, 5.8, 5.9	c)
Durability of operational reliability: humidity resistance	Pass	5.8, 5.9, 5.10	c)
Durability of operational reliability: corrosion resistance	Pass	5.11	
Durability of operational reliability: shock and vibration resistance	Pass	5.12, 5.13, 5.14, 5.15	
Durability of operational reliability: electrical stability	Pass	5.16	
Durability of operational reliability: resistance to ingress	Pass	5.17	
<i>Notes;</i>			
a) <i>Clauses C.3, C.4, C.5.1, C.5.2 and C.5.3 are applicable only to devices having a voice alarm function. No assessment was carried out against these clauses.</i>			
b) <i>Clauses C.3.2 and C.5.3 are applicable only to devices having a voice alarm function with synchronisation. No assessment was carried out against these clauses.</i>			
c) <i>Clauses 5.6 and 5.10 are applicable only to devices suitable for outdoor use. No assessment was carried out against these clauses.</i>			

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### Appendix to Certificate of Constancy of Performance 0359-CPR-00438 (continued)

Table of performance for EN54-23:2010 Harmonised technical specification			
Essential characteristics	Performance	Clauses	Notes
<b>Operational reliability:</b>			
Duration of operation	Pass	4.2.1	
Provision for external conductors	Pass	4.2.2	
Flammability of materials	Pass	4.2.3	
Enclosure protection	Pass	4.2.4	
Access	Pass	4.2.5	
Manufacturer's adjustment	Pass	4.2.6	
On-site adjustment of behaviour	Pass	4.2.7	
Requirements for software controlled devices	Pass	4.2.8	
<b>Performance parameters under fire condition:</b>			
Coverage volume	Pass	4.3.1	a)
Variation of light output	NPD	4.3.2	b)
Minimum and maximum light intensity	Pass	4.3.3	
Light colour	White	4.3.4	
Light temporal pattern and frequency of flashing	Pass / 0.5Hz	4.3.5	
Marking and data	Pass	4.3.6	
Synchronization (option with requirements)	Pass	4.3.7	
<b>Durability:</b>			
<b>Temperature resistance:</b>			
Dry heat (operational)	Pass	4.4.1.1	
Dry heat (endurance)	NPD	4.4.1.2	c)
Cold (operational)	Pass	4.4.1.3	
<b>Humidity resistance:</b>			
Damp heat, cyclic (operational)	Pass	4.4.2.1	
Damp heat, steady state (endurance)	Pass	4.4.2.2	
Damp heat, cyclic (endurance)	NPD	4.4.2.3	c)
<b>Shock and vibration resistance</b>			
Shock (operational)	Pass	4.4.3.1	
Impact (operational)	Pass	4.4.3.2	
Vibration (operational)	Pass	4.4.3.3	
Vibration (endurance)	Pass	4.4.3.4	
<b>Corrosion resistance:</b>			
SO <sub>2</sub> corrosion (endurance)	Pass	4.4.4	
<b>Electrical stability</b>			
EMC, immunity (operational)	Pass	4.4.5	
<b>Notes:</b> a) Clause 4.3.1 – Reference should be made to the manufacturer's data regarding coverage volume. b) Clause 4.3.2 – NPD declared against this clause as a reading could not be taken at the stated angle of 90°. A reading was taken at 45° to verify that the variation was within limits. c) Clauses 4.4.1.2 and 4.4.2.3 are applicable only to devices suitable for outdoor use. No assessment was carried out against these clauses.			