

# CERTIFICATE OF CONSTANCY OF PERFORMANCE

**0905-CPR-00419**

In compliance with Regulation (EU) No 305/2011 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(s)

**Product(s):** **BiWire Ultra and Conventional Range of Sounders and Sounder Beacons**

**Placed on the market**  
**under the name or trade mark of:** (refer to attached appendix for details and conditions)  
**Eaton Electrical Systems Limited**  
Wheatley Hall Road, Doncaster  
South Yorkshire, DN2 4NB, United Kingdom

**and produced in the**  
**manufacturing plant(s):** **Eaton Electrical Products Limited (SG- 15581)**  
Llantarnam Park, Cwmbran  
GWENT, NP44 3AW, United Kingdom

**Intended use:** **Fire Safety**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):

**EN 54-3:2001+A1:2002+A2:2006**  
**EN 54-23:2010**

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.

This certificate was first issued under **0359-CPR-00419** on **2015-04-15** 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

**Notified Body**  
**0905**

**Certification Manager:** Dipl.-Ing. Roland Heine **Date Issue:** 2019-10-15  
**Issue:** 1

**Signature:**



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# CERTIFICATE OF CONSTANCY OF PERFORMANCE

0905-CPR-00419

## APPENDIX TO: Certificate of Constancy of Performance 0905-CPR-00419

The details and conditions of use for the BiWire Ultra and Conventional Range of Sounders and Sounder Beacons, placed on the market under the name or trade mark of:

### Eaton Electrical Systems Limited

Wheatley Hall Road, Doncaster, South Yorkshire, DN2 4NB, 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**

Model	Manufacturing Location	Description
EF009SBWP FXN009SBWP	SG- 15581	Type B BiWire Ultra and Conventional Sounder Beacon
EF009SB FXN009SB	SG- 15581	Type A BiWire Ultra and Conventional Sounder Beacon
EF009WP FXN009WP	SG- 15581	Type B BiWire Ultra and Conventional Sounder
EF009 FXN009	SG- 15581	Type A BiWire Ultra and Conventional Sounder

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

Model	Manufacturing Location	Description
EF009SBWP FXN009SBWP	SG- 15581	Type B BiWire Ultra and Conventional Sounder Beacon
EF009SB FXN009SB	SG- 15581	Type A BiWire Ultra and Conventional Sounder Beacon

### Bases / Base Plates:

Model	Description
26-274	Mounting base (IP21C) supplied with Models EF009 FXN009 and EF009SB FXN009SB
26-190	Mounting base (IP66C) supplied with Models EF009WP FXN009WP and EF009SBWP FXN009SBWP

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

The BiWire Ultra and Conventional Range of Sounders and Sounder Beacons are compatible with the following tones and volume settings:-

Models	EF009SBWP FXN009SBWP, EF009SB FXN009SB, EF009WP FXN009WP, EF009 FXN009					
Switch	1	2	3	4		5
	Sounder on / off	Volume; Hi (Off) Low (On)	On On Off	On Off On	Continuous Bell Alternating	Mode; On – BiWire Ultra Off - Conventional

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## APPENDIX TO: Certificate of Constancy of Performance 0905-CPR-00419

Compliant settings: EN54-23:2010

Models EF009SBWP FXN009SBWP and EF009SB FXN009SB are compliant with Open Class.

### Conditions of use:

1. Models EF009SBWP FXN009SBWP and EF009SB FXN009SB 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. Models EF009 FXN009 and EF009SB FXN009SB are supplied with an IP21C mounting base (Type A) for indoor use and Models EF009WP FXN009WP and EF009SBWP FXN009SBWP are supplied with an IP66C mounting base (Type B) for indoor or outdoor use.
3. The products listed are designed to operate as part of a BiWire Ultra system or a conventional system and should be used with suitable compatible control and indicating equipment.

### General Notes:

1. Evaluated under Intertek project number 101597042, 102891183.
2. No 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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# Certificate of Constancy of Performance

## 0359-CPR-00419



In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation), this certificate applies to the construction product(s).

**Product(s):** Cooper Lighting and Safety Limited BiWire Ultra and Conventional range of Sounders and Sounder beacons

**Produced by or for:** Cooper Lighting and Safety Limited  
Wheatley Hall Road, Doncaster, South Yorkshire, DN2 4NB United Kingdom

**Produced in the manufacturing plant(s):** Cooper Fulleon Limited (CPRCOOUK.1)  
Llantarnam Park, Cwmbran, GWENT, NP44 3AW, United Kingdom

**Intended use:** Fire Safety

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):

**EN54-3:2001+A1:2002+A2:2006**

Fire detection and fire alarm systems – Fire alarm devices – Sounders

**EN54-23:2010**

Fire detection and fire alarm systems – Fire alarm devices – Visual alarm devices

under system 1 are applied and that the product(s) fulfils all the prescribed requirements set out above.

This certificate was first issued on **15/04/2015** and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body. A review of the product(s) and compliant standard(s) will be carried out after 5 years to ensure continued compliance.

**Notified Body**  
**0359**

Intertek Testing & Certification Limited  
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Oliver Richardson  
**Operations Manager**



Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood, Essex,  
CM14 5NQ, United Kingdom

Date 15/04/2015  
Issue 1

Review date 15/04/2019

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# Certificate of Constancy of Performance

## 0359-CPR-00419



### Appendix to Certificate of Constancy of Performance 0359-CPR-00419

The details and conditions of use for the Cooper Lighting and Safety Limited BiWire Ultra and Conventional range of Sounders and Sounder Beacons placed on the market by;

#### Cooper Lighting and Safety Limited

Wheatley Hall Road, Doncaster, South Yorkshire, DN2 4NB 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
EF009SBWP FXN009SBWP	CPRCOOUK.1	Type B BiWire and conventional sounder beacon
EF009SB FXN009SB	CPRCOOUK.1	Type A BiWire and conventional sounder beacon
EF009WP FXN009WP	CPRCOOUK.1	Type B BiWire and conventional sounder
EF009 FXN009	CPRCOOUK.1	Type A BiWire and conventional sounder

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

Variant	Manufacturing Location	Description
EF009SBWP FXN009SBWP	CPRCOOUK.1	Type B BiWire and conventional sounder beacon
EF009SB FXN009SB	CPRCOOUK.1	Type A BiWire and conventional sounder beacon

#### Bases / Base Plates:

Variant	Description
26-274	Mounting base (IP21C) supplied with models EF009 FXN009 and EF009SB FXN009SB
26-190	Mounting base (IP66C) supplied with models EF009WP FXN009WP and EF009SBWP FXN009SBWP

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# Certificate of Constancy of Performance

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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 EF009SBWP FXN009SBWP, EF009SB FXN009SB, EF009WP FXN009WP, EF009 FXN009						
Switch	1	2	3	4		5
	Sounder on / off	Volume; Hi (Off) Low (On)	On On Off	On Off On	Continuous Bell Alternating	Mode; On – BiWire Ultra Off - Conventional

### Compliant settings: EN54-23:2010

Models EF009SBWP FXN009SBWP and EF009SB FXN009SB are compliant with Open Class.

### Conditions of use:

1. Models EF009SBWP FXN009SBWP and EF009SB FXN009SB 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 when fitted with an IP21C mounting base and are suitable for indoor or outdoor use when fitted with an IP66 mounting base.
3. The products listed are designed to operate as part of a BiWire Ultra system or a conventional system and should be used with suitable compatible control and indicating equipment.

### General Notes:

1. Evaluated under Intertek project number 101597042
2. 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-00419 (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	a)
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	
<b>Notes;</b> 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. Assessment was carried out against these clauses only on models fitted with IP66 base.</i>			

# Certificate of Constancy of Performance

## 0359-CPR-00419



### Appendix to Certificate of Constancy of Performance 0359-CPR-00419 (continued)

Table of performance for EN54-23:2010 Harmonised technical specification			
Essential characteristics	Performance	Clauses	Notes
Operational reliability:			
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	
Performance parameters under fire condition:			
Coverage volume	Pass	4.3.1	a)
Variation of light output	Pass	4.3.2	
Minimum and maximum light intensity	Pass*	4.3.3	b)
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	
Durability:			
Temperature resistance:			
Dry heat (operational)	Pass	4.4.1.1	
Dry heat (endurance)	Pass	4.4.1.2	c)
Cold (operational)	Pass	4.4.1.3	
Humidity resistance:			
Damp heat, cyclic (operational)	Pass	4.4.2.1	
Damp heat, steady state (endurance)	Pass	4.4.2.2	
Damp heat, cyclic (endurance)	Pass	4.4.2.3	c)
Shock and vibration resistance			
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	
Corrosion resistance:			
SO2 corrosion (endurance)	Pass	4.4.4	
Electrical stability			
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 4.3.3 – This clause requires that an effective luminous intensity of 1cd is achieved at 70% of measurement points as defined in the tables of Annex A.5. Models EF009SBWP, FXN009SBWP, EF009SB and FXN009SB did not meet this requirement. However, the coverage area by volume where 1cd was achieved was demonstrated as much greater than 70% so it was considered that all products met the intent of the clause. d) Clauses 4.4.1.2 and 4.4.2.3 are applicable only to devices suitable for outdoor use. Assessment was carried out against these clauses only on models fitted with IP66 base.			

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