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Certificate of Constancy of Performance 0359-CPR-00450



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): BiWire Ultra Range of Control and Indicating Equipment

(refer to attached appendix for details and conditions)

Produced by or for: Eaton Industries Manufacturing GmbH

Electrical Sector EMEA, Route de la Longeraie 7, 1110 Morges, Switzerland

Produced in the manufacturing plant(s):

Digital Lighting (Dongguan) Co. Ltd (DIGLIGCN.01)*

Xin Min Road, Xin Min District, Changan Town, 523879, Dongguan City,

Guangdong Province, China

* a subsidiary of Eaton Industries Manufacturing GmbH

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):

EN54-2:1997+A1:2006

Fire detection and fire alarm systems - Control and indicating equipment

EN54-4:1997+A1:2002+A2:2006

Fire detection and fire alarm systems – Power supply equipment

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

This certificate was first issued on **7 August 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and the product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body.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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Gordon Ash Date 07/08/2015
Certification Manager Issue 1

Re-Issue 07/08/2020

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Appendix to Certificate of Constancy of Performance 0359-CPR-00450

The details and condition of use for the BiWire Ultra Range of Control and Indicating Equipment, placed on the market by:

Eaton Industries Manufacturing GmbH

Electrical Sector EMEA, Route de la Longeraie 7, 1110 Morges, Switzerland

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 EN54-2:1997+A1:2006 and EN54-4:1997+A1:2002+A2:2006:

Product Variant	Manufacturing Location	Description	Applicable Options with Requirements
EFBW2ZONE	DIGLIGCN.01	Eaton BiWire Ultra 2 Zone Fire Panel	Clause 7.8, Clause 7.9.1, Clause 7.10.1 and Clause 10.0
		 Comprising of: BiWire Ultra Main Board; Eaton 2 Zone BiWire Ultra Power Supply Option Board; FRE / FPE / 2 Zonal Relays 	
EFBW4ZONE	DIGLIGCN.01	Eaton BiWire Ultra 4 Zone Fire Panel	Clause 7.8, Clause 7.9.1, Clause 7.10.1 and Clause 10.0
		 Comprising of: BiWire Ultra Main Board; Eaton 4 Zone BiWire Ultra Power Supply Option Board; FRE / FPE / 4 Zonal Relays 	
EFBW8ZONE	DIGLIGCN.01	Eaton BiWire Ultra 8 Zone Fire Panel	Clause 7.8, Clause 7.9.1, Clause 7.10.1 and Clause 10.0
		 Comprising of: BiWire Ultra Main Board; Eaton 8 Zone BiWire Ultra Power Supply Option Board; FRE / FPE / 8 Zonal Relays 	

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Appendix to Certificate of Constancy of Performance 0359-CPR-00450 (continued)

Product Variant	Manufacturing Location	Description	Applicable Options with Requirements
FXPBW2ZONE	DIGLIGCN.01	Eaton JSB BiWire Ultra 2 Zone Fire Panel	Clause 7.8 and Clause 10.0
		Comprising of:BiWire Ultra Main Board; Unbranded 2 ZoneBiWire Ultra Power Supply	
FXPBW4ZONE	DIGLIGCN.01	Eaton JSB BiWire Ultra 4 Zone Fire Panel	Clause 7.8 and Clause 10.0
		Comprising of:BiWire Ultra Main Board; Unbranded 4 ZoneBiWire Ultra Power Supply	
FXPBW8ZONE	DIGLIGCN.01	Eaton JSB BiWire Ultra 8 Zone Fire Panel	Clause 7.8, Clause 7.9.1, Clause 7.10.1 and Clause 10.0
		 Comprising of: BiWire Ultra Main Board; Eaton 8 Zone BiWire Ultra Power Supply Option Board; FRE / FPE / 8 Zonal Relays 	

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Appendix to Certificate of Constancy of Performance 0359-CPR-00450 (continued)

Product Variant	Manufacturing Location	Description	Applicable Options with Requirements
UBBW2ZONE	DIGLIGCN.01	BiWire Ultra 2 Zone Fire Panel	Clause 7.8 and Clause 10.0
		 Comprising of: BiWire Ultra Main Board; Unbranded 2 Zone BiWire Ultra Power Supply 	
UBBW4ZONE	DIGLIGCN.01	BiWire Ultra 4 Zone Fire Panel	Clause 7.8 and Clause 10.0
		 Comprising of: BiWire Ultra Main Board; Unbranded 4 Zone BiWire Ultra Power Supply 	
UBBW8ZONE	DIGLIGCN.01	BiWire Ultra 8 Zone Fire Panel	Clause 7.8 and Clause 10.0
		Comprising of:BiWire Ultra Main Board; Unbranded 8 ZoneBiWire Ultra Power Supply	

Options with requirements evaluated as being compliant (as indicated for each Product Variant as applicable):

Clause 7.8	Output to fire alarm devices
Clause 7.9.1	Control of fire alarm routing equipment; Output to fire alarm routing equipment
Clause 7.10.1	Outputs to fire protection equipment; Output type A
Clause 10.0	Test condition

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Appendix to Certificate of Constancy of Performance 0359-CPR-00450 (continued)

Conditions of use:

Suitable for indoor applications.

The BiWire Ultra Power Supply is housed in the same enclosure as the Control and Indicating Equipment.

The BiWire Ultra Range of Control and Indicating Equipment is approved for use with the EOLM-3 BiWire Ultra End-of-Line Module.

Batteries:

Approved for use with the following standby batteries (Fitted within the CIE enclosure):

Manufacturer	Model	Capacity (Ah)	Nominal Voltage (Vdc)	Batteries Fitted
Yucel	Y5-12	5	12	2
Yuasa	NPH5-12	5	12	2

General Notes:

- 1. Evaluated under Intertek project number 101597034.
- 2. <u>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.</u>

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Appendix to Certificate of Constancy of Performance 0359-CPR-00450 (continued)

Table of performance for EN54-2:1997+A1:2006					
Harmonised technical specification					
Essential characteristics	Performance	Clauses	Notes		
Performance under fire conditions	Pass	4, 5, 7	a, b, c, d, e, f, g, h, i,		
Response delay (response time to fire)	Pass	7.1, 7.7, 7.11, 7.12	g, h,		
Operational reliability	Pass	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	b, c, d, e, f, g, h, i, j, k, l, m, n, o, p		
Durability of operational reliability, Temperature resistance	Pass	15.4			
Durability of operational reliability, Vibration resistance	Pass	15.6, 15.7, 15.15			
Durability of operational reliability, Electrical stability	Pass	15.8 to 15.13			
Durability of operational reliability: humidity resistance	Pass	15.5, 15.14			

Notes:

- a. The products covered by this standard are assumed to function during the alarm condition, in an event of fire, before the fire becomes so large as to affect their functioning. There is therefore no requirement to function when exposed to direct attack from fire.
- b. The CIE did not incorporate an alphanumeric display; Clauses 5.3, 7.3.2, 7.5.2, 8.2.3, 9.3.3, 10.3.3, 12.8 and 12.9.2 were therefore not applicable.
- c. Model FXPBW2ZONE, Model FXPBW4ZONE, Model UBBW2ZONE, Model UBBW4ZONE and Model UBBW8ZONE did not provide the option of control of fire alarm routing equipment; Clause 7.9 was therefore not applicable.
- d. Model EFBW2ZONE, Model EFBW4ZONE, Model EFBW8ZONE and Model FXPBW8ZONE did not provide the option of an alarm confirmation input from fire alarm routing equipment; Clause 7.9.2 was therefore not applicable.
- e. Model FXPBW2ZONE, Model FXPBW4ZONE, Model UBBW2ZONE, Model UBBW4ZONE and Model UBBW8ZONE CIE did not provide the option of outputs to fire protection equipment; Clause 7.10 was therefore not applicable.
- f. Model EFBW2ZONE, Model EFBW4ZONE, Model EFBW8ZONE and Model FXPBW8ZONE provided the option of outputs to fire protection equipment (Type A); Clauses 7.10.2 and 7.10.3 were therefore not applicable.
- g. The CIE did not provide the option of delays to outputs; Clause 7.11 was therefore not applicable.
- h. The CIE did not provide the option of dependencies on more than one alarm signal; Clause 7.12 was therefore not applicable.
- i. The CIE did not provide the option of an alarm counter; Clause 7.13 was therefore not applicable.
- j. The CIE did not provide the option of fault signals from points; Clause 8.3 was therefore not applicable.
- k. The CIE did not provide the option to indicate total loss of power supply condition; Clause 8.4 was therefore not applicable.
- I. The CIE did not provide the option of output to fault warning routing equipment; Clauses 8.2.4g, 8.9 and 9.4.1c were therefore not applicable.
- m. The CIE did not provide the option of disablement of addressable points; Clause 9.5 was therefore not applicable.
- n. The CIE did not provide the option of standardised input/output interface; Clause 11 was therefore not applicable.
- o. The CIE was not intended to be housed in more than one enclosure; Clauses 8.2.4e, 8.2.6a, 12.3.2 and 12.5.3 were therefore not applicable.
- p. The CIE and power supply were housed in the same enclosure; Clause 12.5.4 was therefore not applicable.

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Appendix to Certificate of Constancy of Performance 0359-CPR-00450 (continued)

Table of performance for EN54-4:1997+A1:2002+A2:2006					
Harmonised technical specification					
Essential characteristics	Performance	Clauses	Notes		
Performance of power supply	Pass	4, 5, 6	a, b		
Operational reliability	Pass	4, 5, 6, 7, 8	a, b		
Durability of operational reliability, Temperature resistance	Pass	9.5			
Durability of operational reliability, Vibration resistance	Pass	9.7, 9.8, 9.15			
Durability of operational reliability, Electrical stability	Pass	9.9 to 9.13			
Durability of operational reliability: humidity resistance	Pass	9.6, 9.14			

Notes:

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a. The products covered by this standard are assumed to function during the alarm condition, in an event of fire, before the fire becomes so large as to affect their functioning. There is therefore no requirement to function when exposed to direct attack from fire.

b. The PSE is incorporated within the CIE enclosure; Clauses 4.2.9, 6.2.4, 6.2.6 and 6.4 were therefore not applicable.