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Translation

1 EU-Type Examination Certificate Supplement 2

Change to Directive 2014/34/EU

2 **Components intended for use on/in an Equipment or Protective System intended for use in potentially explosive atmospheres**
Directive 2014/34/EU

3 EU-Type Examination Certificate Number: **BVS 09 ATEX E 042 U**

4 Product: **Battery type NIB 2710-3 * and NE 2710-12**

5 Manufacturer: **Cooper Crouse-Hinds GmbH**

6 Address: **Neuer Weg-Nord 49, 69412 Eberbach, Germany**

7 This supplementary certificate extends EC-Type Examination Certificate No. BVS 09 ATEX E 042 U to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

8 DEKRA EXAM GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential Report No. BVS PP 09.2085 EU.

9 The Essential Health and Safety Requirements are assured in consideration of:

EN IEC 60079-0:2018	**General requirements**
EN 60079-1:2014	**Flameproof enclosure "d"**
EN 60079-7:2015	**Increased Safety "e"**
EN 60079-11:2012	**Intrinsic Safety "i"**
EN 60079-18:2015	**Encapsulation "m"**

Except in respect of those requirements listed under item 18 of the appendix.

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system respectively product.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

⟨Ex⟩ II 2G Ex db eb ib mb IIC Gb

DEKRA EXAM GmbH
Bochum, 2018-08-28

Signed: Jörg Koch
Certifier

Signed: Ralf Leiendecker
Approver

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DAkkS Deutsche Akkreditierungsstelle D-ZE-12009-03-00

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13 **Appendix**

14 **EU-Type Examination Certificate**

BVS 09 ATEX E 042 U
Supplement 2

15 **Product description**

15.1 **Subject and type**

Battery type NIB 2710-3 * and type NE 2710-12

Overview of all possible component / equipment combinations

Battery Type	VE with EVG or VE/EVG	Battery box Type	Enclosure material	Protective housing
NIB 2710-3, NIB 2710-3 A, NIB 2710-3 GDF	VE 97 236 with EVG 09 136, VE 97 236 with EVG 09 236, VE 97 236-1 with EVG 09 136, VE 97 236-1 with EVG 09 236, VE/EVG 05 218, VE/EVG 05 218-1	eBK 02 NIB	Plastic	No
		eBS 09 NIB	Stainless steel	
		eBB 20 NIB	Plastic	Yes
NE 2710-12	VE 12 218, VE 12 236, VE 12 236-1, VE 12 400(HT), VE 12 800(HT)	eBK 12 NE	Plastic	No
		eBS 12 NE	Stainless steel	
		eBB 12 NE	Plastic	Yes

15.2 **Description**

With this supplement the certificate is changed to Directive 2014/34/EU.
(Annotation: In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.)

The battery type N** 2710-** is for usage in lighting fixtures for emergency operation. It consists of 5 NiCd cells connected in series with 1.2 V / 7 Ah of each cell for an emergency operation time of 1.5 or 3 hours.

The outer enclosure of the battery type N** 2710-** is made of black Makrolon with an inspection window to visualize the battery status via LEDs.

The battery type NIB 2710-3 * may only be used with battery box type eBK02 NIB, type eBS09 NIB or type eBB20 NIB. The ingress protection of the battery will be reached only in combinations with one of the related battery boxes. Furthermore the battery type NIB 2710-3 * may only be used in combination with the power supply or power supply with electronic ballast according to clause Subject and type.

The battery type NE 2710-12 may only be used with battery box type eBK12 NE, type eBS12 NE or type eBB12 NE. The ingress protection of the battery will be reached only in combinations with one of the related battery boxes. Furthermore the battery type NE 2710-12 may only be used in combination with the power supply or power supply with electronic ballast according to clause Subject and type.

The interconnection of the battery type N** 2710-** to the battery box type eBB ** *** is realised by usage of separately certified plug-in connectors.

The charging of the battery and the switching between mains operation and emergency light operation is controlled by one of the in clause Subject and type mentioned supply units which are built into the lighting fixture and are connected to the battery via the battery box.

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Reason for the supplement:

- Change to Directive 2014/34/EU
- Further supply variants (VE 97 236-* with EVG 09 *36 and VE 12 *00(HT)) added
- Updating of the standards applied with the associated change in labelling
- New type NIB 2710-3 A based on type NIB 2710-3 with modifications from type NE 2710-12 (changed cover, changed software, changed number of status LEDs)
- New type NIB 2710-3 GDF identical to type NIB 2710-3 with preconditioning of the used cells

15.3 **Parameters**

Electrical parameters

Battery type N** 2710-**		
Rated voltage	DC	6.0 V
Rated capacity		7.0 Ah

Supply unit (VE), electronic ballast (EVG) and Supply unit / electronic ballast type (VE/EVG) according overview in clause Subject and type

Charging voltage	DC	8.0 V
Charging current (maximum)		700 mA

Thermal parameters

Ambient temperature range $-25\ °C \leq T_{amb} \leq 55\ °C$

Note: The ambient temperature range can be specified for this component, as it may only be used in conjunction with the appropriate battery box and in combination with the associated linear luminaire.

Intrinsically safe signal circuit of battery type NE 2710-12:
Connection via two internal connectors

The intrinsically safe signal circuit has to be connected only via the battery box type eBK 12 NE, eBS 12 NE or eBB 12 NE to the intrinsically safe signal circuit of the power supply units type VE 12218, VE 12236, VE 12236-1, VE 12 400(HT) and VE 12 800(HT). The connection is made via the plug connections LED g and LED r.

The further connection and wiring has to be tested and certified separately.

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16 **Report Number**

BVS PP 09.2085 EU, as of 2018-08-28

17 **Installation Instructions**

The battery type N** 2710-** must be assembled with the battery box (eB*) and the supply unit (VE), the electronic ballast (EVG) or the supply unit / electronic ballast (VE/EVG) according to the table in section Subject and type.

18 **Essential Health and Safety Requirements**

For this product is the standard EN IEC 60079-0:2018 in terms of safety equivalent to the harmonized standard EN 60079-0:2012 + A11:2013.

19 **Drawings and Documents**

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
Bochum, dated 2018-08-28
BVS-Kir/Nu A 20180385

Certifier

Approver

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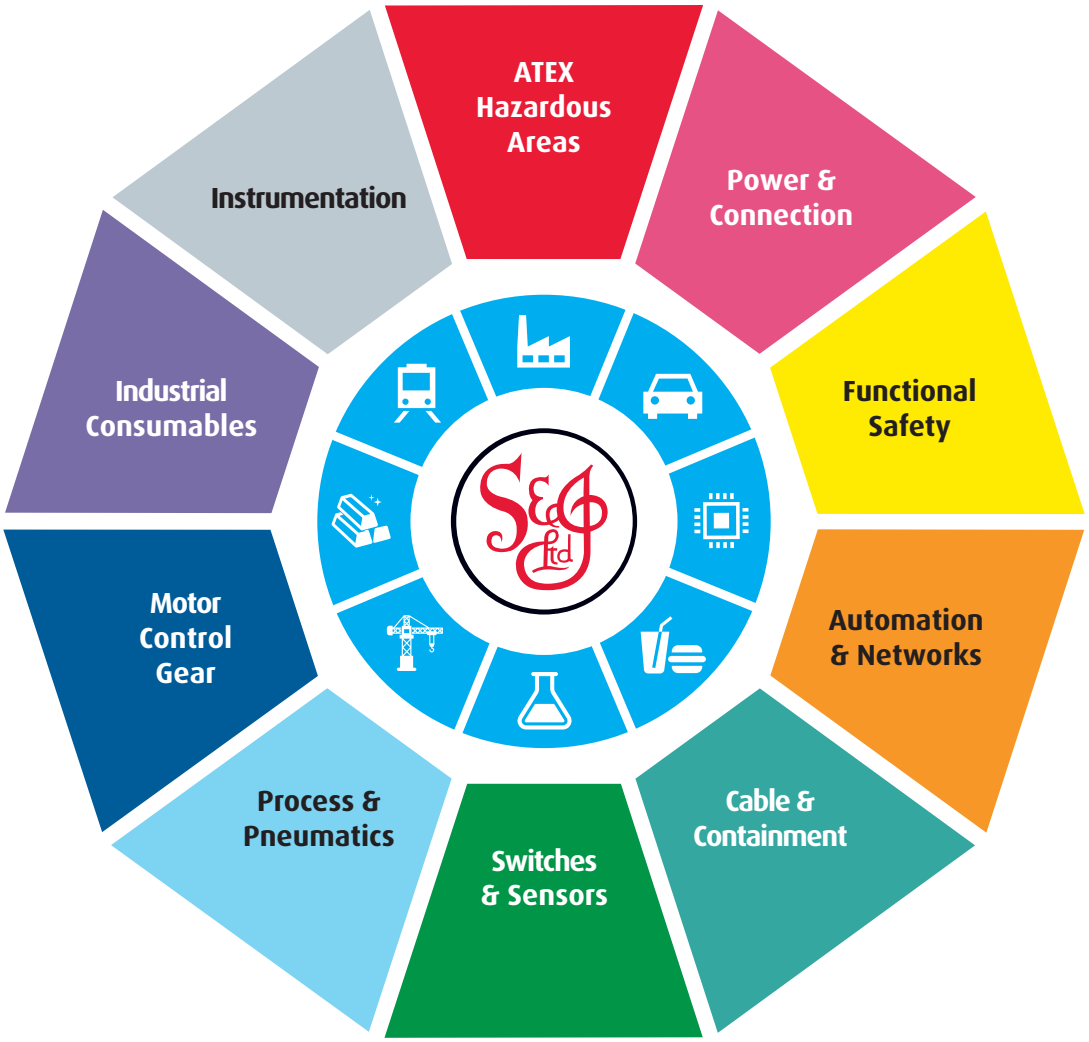

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