

Translation

EU-Type Examination Certificate Supplement 3

Change to Directive 2014/34/EU

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 09 ATEX E 029**

Product: **Exit luminaire type EXIT ***

Manufacturer: **Cooper Crouse-Hinds GmbH**

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

This supplementary certificate extends EC-Type Examination Certificate No. BVS 09 ATEX E 029 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.

DEKRA Testing and Certification 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 10.2228 EU.

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


EN IEC 60079-0:2018	General requirements
EN IEC 60079-7:2015/A1:2018	Increased safety "e"
EN 60079-11:2012	Intrinsic safety "i"
EN 60079-18:2015	Encapsulation "m"
EN 60079-31:2014	Protection by enclosures "t"

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

If the sign 'X' is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

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.

The marking of the product shall include the following:

 **II 2G Ex eb ib mb IIC T* Gb**
II 2D Ex tb IIIC T80°C Db

* The temperature class depends on the type and ambient temperature range. See clause Parameters.

DEKRA Testing and Certification GmbH
Bochum, 2019-06-04

Signed: Jörg-Timm Kilisch

Managing Director



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13 **Appendix**

14 **EU-Type Examination Certificate**

**BVS 09 ATEX E 029
Supplement 3**

15 **Product description**

15.1 **Subject and type**

Exit luminaire type EXIT *

* Details on luminaire variant

None	Standard variant
N	Emergency light with internal battery pack
24V	Power supply with input voltage range 12 up to 24 VDC
V-CG-S	Luminaire with V-CG-S module for connection to a central battery system

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 exit luminaire or emergency luminaire is an explosion-protected electrical equipment intended for use in potentially explosive atmospheres. It consists of a plastic enclosure with cover onto which the emergency sign is fixed. The joint between enclosure top and enclosure lower is sealed by a gasket.

White LEDs are used as source of light; these are assembled on a specific circuit board, the so-called LED unit. Overall, ten strings of 3 LEDs each are supplied by a power supply unit.

N:

Additionally to the standard luminaire, the components for charging, for monitoring the charging and discharging processes and the capacitance counter are placed at the LED unit. In case of mains failure two battery blocks of five cells each are in place to provide power. The energy storage is assembled as an independent unit in the lower housing part.

24V:

Within the 24 V variant the power supply with a large input voltage range is replaced by a power supply with a DC voltage range of 12 V to 24 V. The 24 V power supply is also accommodated in the separately potted enclosure and is assembled in the lower housing part.

V-CG-S:

In conjunction with the V-CG-S module the luminaire can be connected to a central battery system and controlled. The V-CG-S module is mechanically inserted into the same enclosure as the power supply and is also potted. The module is assembled as an independent unit in the lower housing part identical to the power supply module.

Reasons for this supplement:

- Change to Directive 2014/34/EU
- Update of the used standards
- Removal of the variant with CG-S module
- Optional change of the material for the enclosure base
- Update of the type labels
- Optional use of the separately certified terminal block type 2410-4

Listing of all components used referring to older standards

Subject and type	Certificate	Standards
Terminal strip type 2410-4	BVS 13 ATEX E 080 U	EN 60079-0:2012 + A11:2013 EN 60079-7:2015
Terminal type MSDB *	PTB 08 ATEX 1075 U	EN 60079-0:2012 + A11:2013 EN 60079-7:2015

15.3 Parameters

Type	Voltage [V]	AC / DC	Frequency [Hz]	Ambient temperature	Temperature class / surface temperature
EXIT	110 - 277	AC	50 / 60	-20 °C ≤ T _a ≤ 40 °C	T6 / T80 °C
				-20 °C ≤ T _a ≤ 50 °C	T5 / T80 °C
	110 - 250	DC	---	-20 °C ≤ T _a ≤ 40 °C	T6 / T80 °C
				-20 °C ≤ T _a ≤ 50 °C	T5 / T80 °C
EXIT N	110 - 277	AC	50 / 60	-20 °C ≤ T _a ≤ 40 °C	T5 / T80 °C
				-20 °C ≤ T _a ≤ 50 °C	T4 / T80 °C
	110 - 250	DC	---	-20 °C ≤ T _a ≤ 40 °C	T5 / T80 °C
				-20 °C ≤ T _a ≤ 50 °C	T4 / T80 °C
EXIT 24 V -15 % / +20 %	12 - 24	DC	---	-20 °C ≤ T _a ≤ 40 °C	T6 / T80 °C
				-20 °C ≤ T _a ≤ 50 °C	T5 / T80 °C
EXIT V-CG-S	220 - 254	AC	50 / 60	-20 °C ≤ T _a ≤ 50 °C	T4 / T80 °C
	195 - 250	DC	---		

16 Report Number

BVS PP 10.2228 EU, as of 2019-06-04

17 Special Conditions for Use

None

18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under item 9. For this product the standard EN IEC 60079-0:2018 is equivalent to the harmonized standard EN 60079-0:2012 + A11:2013 in terms of safety.

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 Testing and Certification GmbH
Bochum, 2019-06-04
BVS-Kir/Mu A 20140131


Managing Director

