


Translation

EC-Type Examination Certificate

- (1) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (2) No. of EC-Type Examination Certificate: **BVS 11 ATEX E 087**
- (3) Equipment: **Hand light type HE 9 Basic**
- (4) Manufacturer: **Cooper Crouse-Hinds GmbH**
- (5) Address: **69412 Eberbach**
- (6) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.
- (7) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the test and assessment report BVS PP 11.2151 EG.
- (8) The Essential Health and Safety Requirements are assured by compliance with:
- | | |
|-------------------------|-----------------------------|
| EN 60079-0:2009 | General requirements |
| EN 60079-7:2007 | Increased safety 'e' |
| EN 60079-11:2007 | Intrinsic safety 'i' |
- (9) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.
- (10) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (11) The marking of the equipment shall include the following:

 **II 2G Ex e ib IIC T4 Gb**

DEKRA EXAM GmbH
Bochum, dated 10. June 2011

Signed: Simanski

Certification body

Signed: Dr. Eickhoff

Special services unit

- (13) Appendix to
- (14) **EC-Type Examination Certificate
BVS 11 ATEX E 087**

(15) 15.1 Subject and type
Hand light type HE9 Basic

15.2 Description

The hand light type HE 9 Basic is a battery supplied portable device. It serves as electrical lighting for the application in hazardous areas with explosive gas atmospheres, category 2G.

The hand light type HE 9 Basic is supplied by one lithium-ion battery which shall be charged only outside hazardous areas.

The hand light type HE 9 Basic shall not be opened in hazardous areas.

15.3 Parameters

15.3.1 Power supply

1 lithium-ion battery, nominal voltage 3.75 V, 4.8 Ah
Nominal charging voltage 5 V, Um=264 VAC

15.3.2 Ambient temperature range: -20 °C up to +40 °C

(16) Test and assessment report
BVS PP 11.2151 EG as of 10.06.2011

(17) Special conditions for safe use
None

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
44809 Bochum, 10.06.2011
BVS-Rip/Her A 20100872



Certification body



Special services unit

Translation

(1) 1st Supplement to the EC-Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC Supplement accordant with Annex III number 6
- (3) No. of EC-Type Examination Certificate: **BVS 11 ATEX E 087**
- (4) Equipment: **Hand light type HE 9 Basic and type HE 9 Basic LED**
- (5) Manufacturer: **Cooper Crouse-Hinds GmbH**
- (6) Address: **Neuer Weg-Nord 49, 69412 Eberbach, Germany**
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this supplement.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the Test and Assessment Report BVS PP 11.2151 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2012 **General requirements**
EN 60079-7:2007 **Increased safety "e"**
EN 60079-11:2012 **Intrinsic safety "i"**

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.
- (11) This supplement to the EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



II 2G Ex e ib IIC T4 Gb
II 2G Ex ib IIC T4 Gb

für Typ HE 9 Basic

für Typ HE 9 Basic LED

DEKRA EXAM GmbH
Bochum, dated 2014-11-25

Signed: Schumann

Signed: Ruhnau

Certification body

Special services unit

- (13) Appendix to
- (14) **1st Supplement to the EC-Type Examination Certificate
BVS 11 ATEX E 087**
- (15) 15.1 Subject and type

Hand light type HE 9 Basic and type HE 9 Basic LED

The hand light type HE 9 Basic can be modified according to the descriptive documents as mentioned in the pertinent test and assessment report and receives then the marking:

Type **HE 9 Basic LED** Marking: **II 2G Ex ib IIC T4 Gb**

15.2 Description

The hand lights were tested in accordance with the standards listed on page 1.
The hand light type HE 9 Basic is unchanged.

The intrinsically safe Hand light type HE 9 Basic LED is based on the Hand light type HE 9 Basic. The basic housing and the battery power supply are unchanged. Instead of the light bulb, a LED with intrinsically safe electronics is used.

The hand light type HE 9 Basic LED is a battery supplied portable device. It serves as electrical lighting for the application in hazardous areas with explosive gas atmospheres, category 2G.

The hand light type HE 9 Basic LED is supplied by one lithium-ion battery which shall be charged only outside of the hazardous area.

The hand light type HE 9 Basic LED shall not be opened in the hazardous area.

15.3 Parameters

For type HE 9 Basic and HE 9 Basic LED

15.3.1 Power supply

Lithium-ion battery, nominal voltage 3.75 V, 4.8 Ah

Nominal charging voltage 5 V, $U_m = 264 \text{ VAC}$

15.3.2 Ambient temperature range: - 20 °C up to + 40 °C

- (16) Test and assessment report

BVS PP 11.2151 EG as of 2014-11-25

- (17) Special conditions for safe use

None

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
44809 Bochum, 2014-11-25
BVS-Rip/Ma A 20140777



Certification body



Special services unit