



Translation

EC-Type Examination Certificate

**- Directive 94/9/EC -
Equipment and protective systems intended for use
in potentially explosive atmospheres**

BVS 10 ATEX E 003

- (4) **Equipment:** Ex-d luminaire type dKLK 23 (CG-S)
- (5) **Manufacturer:** Cooper Crouse-Hinds GmbH
- (6) **Address:** 69412 Eberbach, Germany
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.
- (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 10.2004 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
EN 60079-0:2009 General requirements
EN 60079-1:2007 Flameproof enclosure 'd'
IEC 60079-31:2008 Protection by enclosure 't'
- (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 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 d IIC T6 Gb
II 2D Ex tb IIIC T80°C Db IP66**

DEKRA EXAM GmbH

Bochum, dated 05. January 2010

Signed: Simanski

Signed: Dr. Eickhoff

Certification body

Special services unit

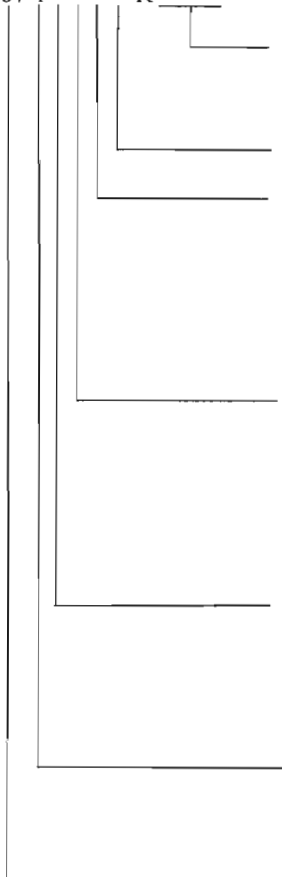
(13) Appendix to

(14) **EC-Type Examination Certificate**

BVS 10 ATEX E 003

(15) 15.1 Subject and type

Ex-d Luminaire type dKLLK 23 (CG-S)

<p>Type GHG 87 1 * * * * R * * * *</p> 	<p>Count number R0001 up to R9998 Standard device or special devices for customer Determined by development</p> <p>1 – <u>Determination by Development department</u></p> <p><u>Lamp efficiency (only valid for standard lamp)</u> 0 – without bulb 1 – 5 W 2 – 7 W 3 – 8 W 4 – free</p> <p><u>Colour – protective cap</u> 0 – limpid 1 – red 2 – green 3 – blue 4 – yellow</p> <p><u>Device version</u> 1 – Compact lamp with integrated electronic ballast 2 – Emergency lamp 3 – Flash light lamp LED – Lamp</p> <p><u>Type of apparatus</u> 0 – spaced 1 – dKLLK</p> <p><u>Ex – Luminaire dKLLK 23</u></p>
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15.2 Description

The flameproof luminaire dKLLK 23 (CG-S) is suitable for use in hazardous areas zone 1 and zone 2 as well as zone 21 and 22. It is used as luminaire, signal lamp, and as well as an emergency lamp in connection with the emergency sign cube.

When used as an emergency lamp, it has the additional marking CG-S.

The position of the lamp as well as the ambient temperature range may be limited according to the data given in 15.3.

15.3 Parameters

Electrical parameters

rated voltage	to	690	V
rated power dissipation	max.	18	W
rated isolation current	to	750	V

Thermal parameters

Permitted ambient temperature range

mounting position light beam facing up			
5 W lamp without security sign cube	- 20°C...+	40	°C
5 W lamp with security sign cube	- 20°C...+	35	°C
mounting position light beam facing down			
5 W lamp without security sign cube	- 20°C...+	45	°C
5 W lamp with security sign cube	- 20°C...+	45	°C
7 W lamp without security sign cube	- 20°C...+	40	°C
7 W lamp with security sign cube	- 20°C...+	40	°C
8 W lamp without security sign cube	- 20°C...+	40	°C
8 W lamp with security sign cube	- 20°C...+	40	°C
flashlight lamp beam facing up			
5 W lamp	- 20°C...+	45	°C

Max. surface temperature T		80	°C
Temperature class	T6		

Degrees of protection according to EN 60529	IP66
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(16) Test and assessment report

BVS PP 10.2004 EG as of 05.01.2010

(17) Special conditions for safe use

Not applicable

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.

44809 Bochum, 05. January 2010
BVS-Hk/Yil/Her A 20090175

DEKRA EXAM GmbH



Certification body




Special services unit

Translation

(1) 1. 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 10 ATEX E 003**
- (4) Equipment: **Ex-d Luminaire type dKLG 23 (V-CG-S) GHG 87 1****R******
- (5) Manufacturer: **Cooper Crouse-Hinds GmbH**
- (6) Address: **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 10.2004 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- IEC 60079-0:2011 General requirements**
EN 60079-1:2007 Flameproof enclosure
EN 60079-31:2009 Equipment dust ignition protection by enclosure
- (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 d IIC T6 Gb**
II 2D Ex tb IIIC T80°C Db IP66

DEKRA EXAM GmbH
Bochum, dated 20. April 2012

Signed: Dr. Eickhoff

Certification body

Signed: Dr. Wittler

Special services unit

