

Translation

EU-Type Examination Certificate

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

EU-Type Examination Certificate Number: **BVS 18 ATEX E 037 X**

Product: **Luminaire Type ExLin **.* G*S *** */***

Manufacturer: **Cooper Crouse-Hinds GmbH**

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

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

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 18.2158 EU.

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

EN IEC 60079-0:2018	General requirements
EN 60079-5:2015	Powder Filling "q"
EN IEC 60079-7:2015 + A1:2018	Increased Safety "e"
EN 60079-11:2012	Intrinsic Safety "i"
EN 60079-28:2015	Optical radiation "op is/pr/sh"

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:

Ex II 2G Ex eb ib op is q IIC T4 Gb

DEKRA EXAM GmbH
Bochum, 2018-10-15

Signed: Jörg Koch

Certifier

Signed: Dr Michael Wittler

Approver

13 **Appendix**

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15 **Product description**

15.1 **Subject and type**

Luminaire Type	ExLin	**	*	G	S	***	*/	**
3L-1 = 2400 lm	_____							
4L-1 = 3600 lm	_____							
5L-1 = 4800 lm	_____							
5L-2 = 4800 lm (2 modules 2400 lm)	_____							
7L-2 = 7200 lm (2 modules 3600 lm)	_____							
pane material:	_____							
G = glass								
transparency:	_____							
C = clear								
F = frosted								
reflector:	_____							
S = standard (without reflector)								
Additional specifications without influence on explosion protection (e.g. colour rendering index, colour temperature)	_____							
Wiring	_____							
1/6 = without through-wiring								
2/6 = with through-wiring								

15.2 **Description**

The Luminaire Type ExLin **-* G*S *** */** consists of a basic housing made of plastic in type of protection Increased Safety „eb“. One or two LED modules type ** *** */** according to BVS 18 ATEX E 038 U resp. IECEx BVS 18.0029U are attached to the basic housing. The LED modules are made of a plastic housing with glass pane in the type of protection Increased safety “eb” containing circuits in type of protection intrinsic safety “ib” when used in combination with the driver module qTEK** *-* and as well as in type of Protection by Enclosure “tb”. The electrical supply is realized by the separately certified Driver Module Type qTEK* according to BVS 17 ATEX E 015 U resp. IECEx BVS 17.0005 U in types of protection Increased Safety „eb“ and Powder Filling „q“. The electrical connection between basic housing and LED module is done via plug and socket carried out in type of protection Increased Safety “eb”.

15.3 **Parameters**

15.3.1 **Electrical data**

input voltage	AC	110 V up to 277 V, 50/60 Hz or
	DC	110 V up to 277 V
power		22 W / 33 W / 45 W / 67 W

Depending on the type of the luminaire the LED modules are supplied by the appropriate driver module (type qTEK***). The drivers match with the LED modules. Due to that fact there is a standard driver for each type of luminaire or optionally the use of the driver with higher power.

luminaire	LED-module	standard driver	optional
3L-1	1x LED-module 24 ** * ***	qTEK 10* - * (Low Power)	qTEK 20* - * (Mid Power) qTEK 30* - * (High Power)
4L-1	1x LED-module 36 ** * ***	qTEK 20* - * (Mid Power)	qTEK 30* - * (High Power)
5L-1	1x LED-module 48 ** * ***	qTEK 20* - * (Mid Power)	
5L-2	2x LED-module 24 ** * ***	qTEK 20* - * (Mid Power)	
7L-2	2x LED-module 36 ** * ***	qTEK 30* - * (High Power)	-

15.3.2 Thermal data

Permitted temperature range -40 °up to +55 °C

Temperature class T4

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BVS PP 18.2158 EU, as of 2018-10-15

17 Special Conditions for Use

17.1 The permitted ambient temperature range of the Luminaire Type ExLin **-* G*S *** */* is -40 °C up to +55 °C.

17.2 For ExLin 3L-1 G*S *** 2/6, ExLin 5L-2 G*S *** 2/6:
Connection cables and cable glands with a permissible operating temperature of at least 85 °C must be used.

For ExLin 4L-1 G*S *** 2/6, ExLin 5L-1 G*S *** 2/6, ExLin 7L-2 G*S *** 2/6:
Connection cables and cable glands with a permissible operating temperature of at least 90 °C must be used.

17.3 The luminaire shall only be cleaned with a damp cloth.

17.4 Driver module and LED module shall only be used in the following combinations:

Luminaire	LED-module	Standard driver module	optional
3L-1	1x LED-Modul 24 ** * ***	qTEK 10* - * (Low Power)	qTEK 20* - * (Mid Power) qTEK 30* - * (High Power)
4L-1	1x LED-Modul 36/** * ***	qTEK 20* - * (Mid Power)	qTEK 30* - * (High Power)
5L-1	1x LED-Modul 48/** * ***	qTEK 20* - * (Mid Power)	
5L-2	2x LED-Modul 24 ** * ***	qTEK 20* - * (Mid Power)	
7L-2	2x LED-Modul 36 ** * ***	qTEK 30* - * (High Power)	-

18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under item 9. For this product is the standard IEC 60079-0:2017 Ed. 7.0 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 2018-10-15
BVS-HK/Nu A 20170969



Certifier



Approver