Translation

1 # EU-Type Examination Certificate

2 **Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014**

3 EU-Type Examination Certificate Number: **BVS 18 ATEX E 037 X** Issue: **03**

4 Equipment: **Luminaire type ExLin** ***-* ****** *** *** */***

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

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

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

8 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 18.2158 EU.
This issue of the EU-Type Examination Certificate replaces the previous issue of the EU-Type Examination Certificate BVS 18 ATEX E 037 X issue 02.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**General requirements**
EN IEC 60079-1:2014	**Flameproof enclosure "d"**
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 60079-18:2015+A1:2017	**Encapsulation "m"**
EN 60079-28:2015	**Optical radiation „op is"**
EN 60079-31:2014	**Protection by enclosures "t"**

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

11 This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. 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:

NE+ - Variant
II 2G Ex db eb ib mb op is q IIC T4 Gb
II 2D Ex op is tb IIIC T* Db

All other types
II 2G Ex eb ib op is q IIC T4/T5 Gb
II 2D Ex op is tb IIIC T* Db

* see thermal Parameters

DEKRA Testing and Certification GmbH
Bochum, 2025-09-25

Signed: Oliver Brumm

Managing Director

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13 Appendix

14 EU-Type Examination Certificate
BVS 18 ATEX E 037 X issue 03

15 Product description

15.1 Subject and type

Luminaire type ExLin** ***-* ****** *** *** */*

ExLin$^{aa\ bbb_b\ ccccc\ ddd\ ddd\ e/e}$		
Place	**Description**	**Values**
aa	Enclosure variant	w/o standard enclosure -L longer enclosure (possible replacement for eLLK types)
bbb_b	Types	3L-1 2400 lm minimum; 1 module 4L-1 3600 lm minimum; 1 module 5L-1 4800 lm minimum; 1 module 5L-2 4800 lm minimum; 2 modules each 2400 lm 7L-2 7200 lm minimum; 2 modules each 3600 lm 10L-2 9600 lm minimum; 2 modules each 4800 lm
ccccc	Variants	w/o standard variant V-CG-S with emergency control unit NE+ emergency light version with supply unit VE+
ddd ddd	Versions	Versions without influence on explosion protection (e.g. light color, transparency, etc.)
e/e	Through wiring	1/6 without through-wiring 2/6 with through-wiring 1/5 without through-wiring alternative terminal 2/5 with through-wiring alternative terminal

15.2 Description

The Luminaire type ExLin** ***-* ****** *** *** */* consists of a basic housing made of plastic in type of protection Increased Safety “eb” and Protection by Enclosure “tb”.

One or two LED modules type ** *** ** * according to BVS 18 ATEX E 038 U 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” and Protection by Enclosure “tb” containing circuits in type of protection Intrinsic Safety “ib” when used in combination with the driver module qTEK ***-*. The electrical supply is realized by the separately certified Driver Module type qTEK ***-* according to BVS 17 ATEX E 015 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” and Protection by Enclosure “tb”.

Optional the ExLin standard base enclosure can be replaced by a longer version (types ExLin**-L**…). In the longer version the lamp can be used as a replacement lamp for the older eLLK92 36 W types. This enclosure is designed in such a way, that the fastening and the electrical connection can be used without modifications to the existing installation.

Details of change

- Addition of the optional longer base enclosure for the new types ExLin-L
- Type code modified for the new enclosure
- Addition of an alternative housing material

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15.3 **Parameters**

15.3.1 Electrical data

Rated input voltage Types **ExLin 3L-1, 4L-1, 5L-* and 7L-2** Types **ExLin-L 3L-1, 4L-1, 5L-* and 7L-2**	AC	110 … 277	V, 50/60 Hz
	DC	110 … 277	V

Rated input voltage Type **ExLin 10L-2** Type **ExLin-L 10L-2**	AC	220 … 277	V, 50/60 Hz
	DC	220 … 250	V

Rated input voltage **V-CG-S Variants** (all types except ExLin 10L-2 and ExLin-L 10L-2)	AC	220 … 254	V, 50/60 Hz
	DC	195 … 250	V

Rated input voltage **NE+ Variants** (Types **ExLin 3L-1** and **5L-1**) **NE+ Variants** (Types **ExLin-L 3L-1**, **5L-1** and **5L-2**)	AC	110 … 254	V, 50/60 Hz

Output power (LED-modules)			
3L		22	W
4L		33	W
5L		44	W
7L		67	W
10L		88	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. The driver module is available in several types with different power output.
Optionally the driver type qTEK 00*-* can be used which has a V-CG-S function.
See table below for dependencies between luminaires, LED-module and permitted drivers.

Luminaire	**LED-Module**	**Permitted drivers**			
3L-1 -L 3L-1	1x 24 ** * ***	qTEK 10*-* [1] (Low Power)	qTEK 20*-* (Mid Power)		
4L-1 -L 4L-1	1x 36 ** * ***		qTEK 20*-* [1] (Mid Power)	qTEK 30*-* (High Power)	qTEK 00* * (V-CG-S)
5L-1 -L 5L-1	1x 48 ** * ***				
5L-2 -L 5L-2	2x 24 ** * ***				
7L-2 -L 7L-2	2x 36 ** * ***			qTEK 30*-* [1] (High Power)	
10L-2 -L 10L-2	2x 48 ** * ***			qTEK 40*-* [1] (High Power Plus)	
3L-1 NE+ -L 3L-1 NE+	1x 24 ** * ***			qTEK 30*-* [1] (High Power)	
5L-1 NE+ -L 5L-1 NE+	1x 48 ** * ***				
-L 5L-2 NE+	2x 24 ** * ***				

[1] standard driver

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15.3.2 Thermal data

Permitted ambient temperature range and temperature class for **EPL Gb**

T_{amb} range	Temperature class								
	(-L) 3L-1	(-L) 4L-1	(-L) 5L-1	(-L) 5L-2	(-L) 7L-2	(-L) 10L-2	(-L) 3L-1 NE+	(-L) 5L-1 NE+	-L 5L-2 NE+
-40 °C … 60 °C [1]	T4 [1) 3)]			T4 [1) 3)]					
-40 °C … 55 °C	T4	T4 [3)]	T4 [3)]	T4	T4 [3)]				
-40 °C … 50 °C	T4	T4	T4 [3)]	T4	T4				
-40 °C … 45 °C	T4	T4	T4	T4	T4	T4 [2) 3)]	T4 [4)]	T4 [4)]	T4 [4)]
-40 °C … 40 °C	T5 T4 [5)]	T4	T5 T4 [5)]	T5 T4 [5)]	T4	T4 [2)]	T4	T4	T4

1) not permitted if driver qTEK 00*-* with V-CG-S function is used
2) no V-CG-S variants possible
3) in case of alternative terminal TW 16 A only permitted for ExLin-L types
4) not permitted for through-wiring
5) if used with driver qTEK 00*-*

Permitted ambient temperature range and max. surface temperature for **EPL Db**

T_{amb} range	Surface temperature								
	(-L) 3L-1	(-L) 4L-1	(-L) 5L-1	(-L) 5L-2	(-L) 7L-2	(-L) 10L-2	(-L) 3L-1 NE+	(-L) 5L-1 NE+	-L 5L-2 NE+
-40 °C … 60 °C	95 °C [1)3)]			95 °C [1)3)]					
-40 °C … 55 °C	90 °C	100 °C [3)]	110 °C [3)]	90 °C	100 °C [3)]				
-40 °C … 50 °C	85 °C	95 °C	105 °C [3)]	85 °C	95 °C				
-40 °C … 45 °C	80 °C	90 °C	100 °C	80 °C	90 °C	105 °C [2)3)]	100 °C [4)]	100 °C [4)]	100 °C [4)]
-40 °C … 40 °C	75 °C	85 °C	95 °C	75 °C	85 °C	100 °C [2)]	95 °C	95 °C	95 °C

1) not permitted if driver qTEK 00*-* with V-CG-S function is used
2) no V-CG-S variants possible
3) in case of alternative terminal TW 16 A only permitted for ExLin-L types
4) not permitted for through-wiring

16 Report Number

BVS PP 18.2158 EU, as of 2025-09-25

17 Specific Conditions of Use

17.1 Driver module and LED module shall only be used in the combinations given in the parameters section.

17.2 Depending on the permitted ambient temperature range **cable glands** with a minimum permissible operating temperature according to the table below shall be used:

	TW			$T_{amb,max}$				
Type ExLin…	**no**	**10 A**	**16 A**	**40 °C**	**45 °C**	**50 °C**	**55 °C**	**60 °C**
3L-1 5L-2	X							[1)]
		X						75 °C [1)]
			X			75 °C	80 °C	85 °C [1) 3)]
4L-1 -L 4L-1 7L-2 -L 7L-2	X							
		X					75 °C	
			X		75 °C	80 °C	85 °C [4)]	

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Type ExLin…	TW			$T_{amb,max}$				
	no	10 A	16 A	40 °C	45 °C	50 °C	55 °C	60 °C
5L-1	X							
		X					75 °C	
			X		75 °C	80 °C 3)	85 °C 3)	
-L 5L-1	X							
		X						
			X				75 °C	
-L 3L-1 -L 5L-2	X							1)
		X						1)
			X					75 °C 1)
10L-2 -L 10L-2	X			2)	2)			
		X		2)	2)			
			X	2)	75 °C 2) 4)			
3L-1 NE+ 5L-1 NE+	X			2)	2)			
		X		2)				
			X	2)				
-L 3L-1 NE+ -L 5L-1 NE+ -L 5L-2 NE+	X			2)	2)			
		X		2)				
			X	2)				

TWThrough-wiring

1) not possible for V-CG-S Variants
2) V-CG-S variant not possible
3) not permitted for alternative terminal
4) for alternative terminal only allowed with ExLin-L types

Green highlighted cells indicate standard cable glands up to 70 °C, other temperatures are marked individually
Grey highlighted cells indicate not permitted combinations

17.3 Depending on the permitted ambient temperature range **connection cables** with a minimum permissible operating temperature according to the table below shall be used:

Type ExLin…	TW			$T_{amb,max}$				
	no	10 A	16 A	40 °C	45 °C	50 °C	55 °C	60 °C
3L-1 5L-2	X							1)
		X						75 °C 1)
			X		75 °C	80 °C	85 °C	90 °C 1) 3)
4L-1 -L 4L-1 7L-2 -L 7L-2	X							
		X				75 °C	80 °C	
			X	75 °C	80 °C	85 °C	90 °C 4)	
5L-1	X							
		X				75 °C	80 °C	
			X	75 °C	80 °C	85 °C 3)	90 °C 3)	
-L 5L-1	X							
		X						
			X			75 °C	80 °C	
-L 3L-1 -L 5L-2	X							1)
		X						1)
			X			75 °C	80 °C	85 °C 1)

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Type ExLin…	TW			$T_{amb,max}$				
	no	10 A	16 A	40 °C	45 °C	50 °C	55 °C	60 °C
10L-2 -L 10L-2	X			2)	2)			
		X		2)	2)			
			X	80 °C 2)	85 °C 2) 4)			
3L-1 NE+ 5L-1 NE+	X			2)	2)			
		X		2)				
			X	75 °C 2)				
-L 3L-1 NE+ -L 5L-1 NE+ -L 5L-2 NE+	X			2)	2)			
		X		2)				
			X	2)				

TWThrough-wiring

1) not possible for V-CG-S Variants
2) V-CG-S variant not possible
3) not permitted for alternative terminal
4) for alternative terminal only allowed with ExLin-L types

Green highlighted cells indicate standard cables up to 70 °C, other temperatures are marked individually
Grey highlighted cells indicate not permitted combinations

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

17.5 The LED Module shall not be used in areas with electrostatically intense charging processes.

17.6 For zone 21 application if dust atmosphere is present: the battery pack NE+ shall only be disconnected from the emergency supply unit VE+ (ExLin luminaire) when the luminaire is disconnected from the mains supply.

18 Essential Health and Safety Requirements

Met by compliance with the requirements mentioned in item 9.

19 Remarks and additional information

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, 2025-09-25
BVS-Kir/HWa A 20240846 / 343590300

Managing Director

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