



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx BVS 18.0028X**

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Certificate history:

Status: **Current**

Issue No: 7

Issue 6 (2025-01-09)
Issue 5 (2023-12-15)
Issue 4 (2022-07-05)
Issue 3 (2021-03-08)
Issue 2 (2019-12-04)
Issue 1 (2019-09-23)
Issue 0 (2018-10-15)

Date of Issue: **2025-09-26**

Applicant: **Cooper Crouse-Hinds GmbH**
Neuer Weg-Nord 49
69412 Eberbach
Germany

Equipment: **Luminaire type ExLin** ***_* ***** *** ***/***

Optional accessory:

Type of Protection: **Flameproof Enclosures "d", Intrinsic Safety "i", Optical Radiation "op", Powder Filling "q", Increased Safety "e", Protection by Enclosure "t", Protection by Encapsulation "m"**

Marking: **NE+ variant:**

Ex db eb ib mb op is q IIC T4 Gb
Ex op is tb IIIC T°C Db

* See thermal data

All other variants:
Ex eb ib op is q IIC T4/T5 Gb
Ex op is tb IIIC T°C Db

* See thermal data

Approved for issue on behalf of the IECEx
Certification Body:

Dr Michael Wittler

Position:

Deputy Head of Certification Body

Signature:
(for printed version)

Date:
(for printed version)

2025-09-26

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Certificate issued by:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany





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Manufacturer: **Cooper Crouse-Hinds GmbH**
Neuer Weg-Nord 49
69412 Eberbach
Germany

Manufacturing locations: **Cooper Crouse-Hinds GmbH**
Neuer Weg-Nord 49
69412 Eberbach
Germany

Eaton Industries Middle East LLC
2nd Industrial City
Dammam
Eastern Province
KHOBAR 31952 (PO Box 3996)
Saudi Arabia

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-5:2015 Explosive atmospheres -Part 5: Equipment protection by powder filling "q"
Edition:4.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/BVS/ExTR18.0072/07

Quality Assessment Reports:

DE/BVS/QAR11.0009/15

GB/BAS/QAR16.0002/07



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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 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" 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 IECEx BVS 17.0005U 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 replace 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.

Subject and Type

See Annex

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

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

Annex:

[BVS_18_0028X_Cooper_Annex_issue7.pdf](#)



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Subject and Type

Luminaire type ExLin** ***_* ***** ** ** */*

ExLin ^{aa bbb_b cccccc ddd ddd e/e}			
Place	Description	Values	
aa	Enclosure variant	w/o -L	standard enclosure longer enclosure (possible replacement for eLLK types)
bbb_b	Types	3L-1 4L-1 5L-1 5L-2 7L-2 10L-2	2400 lm minimum; 1 module 3600 lm minimum; 1 module 4800 lm minimum; 1 module 4800 lm minimum; 2 modules each 2400 lm 7200 lm minimum; 2 modules each 3600 lm 9600 lm minimum; 2 modules each 4800 lm
ccccc	Variants	w/o V-CG-S NE+	standard variant with emergency control unit 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 2/6 1/5 2/5	without through-wiring with through-wiring without through-wiring alternative terminal with through-wiring alternative terminal

Parameters

Electrical data

<u>Rated input voltage</u> 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
<u>Rated input voltage</u> Type ExLin 10L-2 Type ExLin-L 10L-2	AC	220 ... 277	V, 50/60 Hz
	DC	220 ... 250	V
<u>Rated input voltage</u> 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
<u>Rated input voltage</u> 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
<u>Output power (LED-modules)</u> 3L 4L 5L 7L 10L		22 33 44 67 88	W W W W 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.



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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 ExLin...	LED-Module	Permitted drivers			
3L-1 -L 3L-1	1x 24 *** **	qTEK 10*-* ¹⁾ (Low Power)	qTEK 20*-* (Mid Power)	qTEK 30*-* (High Power)	qTEK 00*-* (V-CG-S)
4L-1 -L 4L-1	1x 36 *** **		qTEK 20*-* ¹⁾ (Mid Power)		
5L-1 -L 5L-1	1x 48 *** **				
5L-2 -L 5L-2	2x 24 *** **				
7L-2 -L 7L-2	2x 36 *** **				
10L-2 -L 10L-2	2x 48 *** **		qTEK 30*-* ¹⁾ (High Power)		
3L-1 NE+ -L 3L-1 NE+	1x 24 *** **		qTEK 40*-* ¹⁾ (High Power Plus)		
5L-1 NE+ -L 5L-1 NE+	1x 48 *** **		qTEK 30*-* ¹⁾ (High Power) with power supply unit VE+ and battery pack NE+		
-L 5L-2 NE+	2x 24 *** **				

¹⁾ standard driver

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*-*



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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



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Specific Conditions of Use:

1. Driver module and LED module shall only be used in the combinations given in the parameters section.
2. Depending on the permitted ambient temperature range **cable glands** with a minimum permissible operating temperature according to the table below shall be used:

Type ExLin...	Through wiring			T _{amb,max}				
	no	10 A	16 A	40 °C	45 °C	50 °C	55 °C	60 °C
3L-1 5L-2	X							
		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⁾	
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							
		X						
			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⁾				

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



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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...	Through wiring			T _{amb,max}				
	no	10 A	16 A	40 °C	45 °C	50 °C	55 °C	60 °C
3L-1 5L-2	X							
		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							
		X						
			X			75 °C	80 °C	85 °C ¹⁾
10L-2 -L 10L-2	X							
		X						
			X	80 °C ²⁾	85 °C ^{2) 4)}			
3L-1 NE+ 5L-1 NE+	X							
		X						
			X	75 °C ²⁾				
-L 3L-1 NE+ -L 5L-1 NE+ -L 5L-2 NE+	X							
		X						
			X					

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

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

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

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.