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Translation

# 1 EU-Type Examination Certificate Supplement 13

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

3 EU-Type Examination Certificate Number: **BVS 09 ATEX E 034**

4 Product: **Fluorescent lighting fixture type eLL* ** ***/** ***

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

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

7 This supplementary certificate extends EU-Type Examination Certificate No. BVS 09 ATEX E 034 to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

8 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 09.2044 EU.

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

| | |
|---|---|
| **EN 60079-0:2012 + A11:2013** | **General requirements** |
| **EN 60079-1:2014** | **Flameproof enclosure "d"** |
| **EN 60079-7:2015** | **Increased Safety "e"** |
| **EN 60079-11:2012** | **Intrinsic Safety "i"** |
| **EN 60079-18:2015** | **Encapsulation "m"** |
| **EN 60079-28:2015** | **Optical radiation "op is"** |
| **EN 60079-31:2014** | **Protection by Enclosure "t"** |

10 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.

11 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.

12 The marking of the product shall include the following:

| | |
|---|---|
| **II 2G Ex db eb IIC T4 Gb** | (type without option; ZB; ZB KK; DCA; DCA KK; KK) |
| **II 2G Ex db eb ib mb IIC T4 Gb** | (type NIB; V-CG-S; V-CG-S KK; NE) |
| **II 2G Ex db eb ib mb op is IIC T4 Gb** | (type LED NIB; LED NE; LED HT NIB; LED HT NE; LED V-CG-S; LED V-CG-S KK) |
| **II 2G Ex db eb mb op is IIC T4 Gb** | (type LED; LED KK; LED DCA ; LED DCA KK ; LED HT; LED HT KK) |
| **II 2D Ex tb IIIC T80°C Db** | |

DEKRA EXAM GmbH
Bochum, 2018-08-03

Signed: Dr Franz Eickhoff
Certifier

Signed: Dr Michael Wittler
Approver


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13 **Appendix**

14 **EU-Type Examination Certificate**

**BVS 09 ATEX E 034**
**Supplement 13**

15 **Product description**

15.1 **Subject and type**

Fluorescent lighting fixture type eLL*[1] **[2] ***[3]/**[4] *[5]

[1] K : Plastic enclosure
M : Pole mounted light with plastic enclosure
S : Stainless steel enclosure

[2] 08 : Type coding of stainless steel luminaire
92 : Type coding of plastic luminaire

[3] 0.. : Bi-pin lamp cap type G13
3.. : One-pin lamp cap type FA6
18 : 18 W – 1st fluorescent lamp
36 : 36 W – 1st fluorescent lamp
36-1 : 32 W – 1st fluorescent lamp (only without feed-through wiring)
58 : 58 W – 1st fluorescent lamp
LED : Version with LED-modules

[4] 18 : 18 W – 2nd fluorescent lamp
36 : 36 W – 2nd fluorescent lamp
36-1 : 32 W – 2nd fluorescent lamp (only without feed-through wiring)
58 : 58 W – 2nd fluorescent lamp
400 : With LED-module 2x15 W
400-1 : With LED-module 1x13 W
800 : With LED-module 2x26 W
400HT : With LED-module 2x12 W
800HT : With LED-module 2x21 W
400A : With LED Retrofit module 2x13 W (ELLK – 2 - *)
800A : With LED Retrofit module 2x26 W (ELLK – 4 - *)

[5] None [1] : Standard
ZB [1] : Suitable for emergency power supply (central battery)
V-CG-S [1] : With monitoring module
NIB : Intelligent single battery system
DCA [1] : DC – Disconnection
NE : Emergency light version with VE12 218, VE12 236, VE12 236-1, VE 12 400, VE 12 800, VE 12 400HT or VE 12 800HT

[1] KK : with one- or both side mounted battery box eb* **/*** in use as a terminal box

15.2 **Description**

The fluorescent lighting fixture type eLL* ** ***/** * is an explosion-protected electrical apparatus that accommodates single or twin fluorescent luminaires with either lamp cap FA6 (one-pin) or lamp cap G13 (Bi-pin).

Only separately certified EVGs, one single, one double or two single, are used as electronic ballast, such as: EVG09... (BVS 09 ATEX E 054 U). The Emergency-luminaire- variants are used with VE/EVG05 (BVS 09 ATEX E 043 U), e.g. VE97...(BVS 09 ATEX E 043 U), or VE12 218, VE12 236 or VE12 236-1 (BVS 09 ATEX E 043 U), VE12 400, VE12 400HT, VE12 800 or VE12 800HT (BVS 09 ATEX E 043 U).
The luminaires may be replaced inside the potentially explosive atmosphere if the fluorescent lighting fixture is equipped with a separately certified light switch (BVS 12 ATEX E 086 U) which disconnects the light at all poles or if the voltage of the lighting fixture is set to zero before changing the luminaire. The variant without a light switch contains a relevant warning on the outside of the enclosure.


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The lighting fixtures that are equipped with a luminaire size T12 (38 mm diameter) are exclusively used with mechanical protection.

The enclosure of the fixture consists of either glass-mat reinforced polyester or of stainless steel; the light-permitting diffuser is made of polycarbonate.

The lighting fixture type eLL* ** ***/** ZB is intended to be connected to a central battery system or emergency power supply. If the light operates on twin luminaires, each luminaire is supplied by a separate circuit via its own electronic ballast.

The lighting fixture type eLL* ** ***/** NIB is provided with an emergency light device which consists of one or two separately certified EVG09... in conjunction with the supply unit VE97..., and / or the power supply / emergency light unit VE/EVG05..., as well as a battery box type eBK02 NIB or eBS09 NIB (BVS 09 ATEX E 044 X).
Optionally the luminaires are usable with a reducing bolt M25 - M20 type 2 2462 900 010.

The luminaire can be equipped with separately certified LED modules (BVS 13 ATEX E 018 U). Those modules can also be used as an exchange light source for luminaires if these are equipped with supply unit VE/EVG05..., VE97... or VE12... or electronic ballast EVG09.

The luminaire types with LED-modules can be equipped with electronic ballasts EVG09 400HT or EVG09 800HT (BVS 09 ATEX E 054 U) for an extended ambient temperature range.

The luminaire type eLL* ** ***/** V-CG-S with separately certified emergency control unit (BVS 15 ATEX E 071 U) will be added.

The luminaire type eLL* ** LED 400HT/** NIB or eLL* ** LED 800HT/** NIB can be equipped with an emergency unit, which consists of one or two separately certified EVG09... with the supply unit VE97..., or the electronic ballast and emergency unit VE/EVG05... and battery box type eBK02 NIB or eBS09 NIB (BVS 09 ATEX E 044 X).

The luminaire type eLL* ** ***/** NE is equipped with emergency control unit consists of a supply unit VE12 218, VE12 236 or VE12 236-1 (BVS 09 ATEX E 043 U) and the battery box eBK12 NE or eBS12 NE (BVS 09 ATEX E 044 X) with luminaire switch type GHG 883 00001 R .... (BVS 12 ATEX E086 U).

The luminaire type eLL * ** 036/36 NE with 120 V AC version and through wiring can be used for an ambient temperature up to +40 °C.

Additional, the luminaire type eLL* ** LED 400 NE can be used with emergency control unit consists of a supply unit VE12 400 (BVS 09 ATEX E 043 U), type eLL* ** LED 800 NE can be used with emergency control unit consists of a supply unit VE12 800 (BVS 09 ATEX E 043 U).

Alternatively, the luminaire type eLL * ** LED 400-1 can be used with only one LED module strip and the type eLL * ** LED 400 or eLL * ** LED 800 can be equipped with high-gloss reflector.

The luminaire type eLL * ** LED 400HT NE and type eLL * ** LED 800HT NE can be used for an ambient temperature up to +55 °C. Additional, the luminaire type eLL* ** LED 400HT NE can be used with emergency control unit consists of a supply unit VE12 400HT,
type eLL* ** LED 800HT NE can be used with emergency control unit consists of a supply unit VE12 800HT. In this version the VE12 400 or VE12 800 (BVS 09 ATEX E 043 U) will be used with reduced output current.
The luminaire can be equipped with separately certified LED modules (CML 17 ATEX 3243 U). Those modules can also be used as an exchange light source for luminaires if these are equipped with supply unit VE/EVG05..., VE97... or VE12... or electronic ballast EVG09.

The luminaire type eLL* ** ***/** * KK can be equipped with one- or both side mounted battery box eB* ** *** in use of a terminal box.

The cover of the connection box of the luminaire type eLLM ** ***/** ** can be built from an alternative material.

**Reason of the supplement:**

- The fluorescent lighting fixture type eLL* ** ***/** * with separately certified LED Retrofit module (CML 17 ATEX 3243 U) can be equipped with a diffuser for an ambient temperature range -25 °C up to +50 °C, optionally.


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Listing of all components

| Subject and type | Certificate |
|---|---|
| Lamp holder G13 | BVS 15 ATEX E 136 U |
| Lamp holder FA6 | PTB 00 ATEX 2125 U<br>BVS 17 ATEX E 032U |
| Electronic ballast EVG09... | BVS 09 ATEX E 054 U |
| Ballast VE/EVG05, VE97...,<br>VE12 218, VE12 236,<br>VE12 236-1, VE12 400,<br>VE12 800, VE12 400HT<br>or VE12 800HT | BVS 09 ATEX E 043 U |
| Luminaire switch<br>Type GHG 883 00001 R .... | BVS 12 ATEX E 086 U |
| LED-Module | BVS 13 ATEX E 018 U |
| LED Retrofit Module | CML 17 ATEX 3243 U |
| Emergency control unit<br>V-CG-S | BVS 15 ATEX E 071 U |
| Terminal Typ 2410 | BVS 13 ATEX E 080 U |
| Terminal block Typ 262-85 | PTB 98 ATEX 3125 U |

## 15.3 Parameters

### 15.3.1 Electrical data

One-pin lamp cap type FA6

| Type of luminaire | Type of electronic ballast / supply unit | Nominal voltage | Frequency |
|---|---|---|---|
| eLL* ** 318 | 1x EVG09 118 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 318/18 | 1x EVG09 218 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** 318/18 NE | 1x VE12 218 + Battery boxes<br>eBK12 NE resp. eBS12 NE | 120 V – 254 V AC | 50 Hz – 60 Hz |
| eLL* ** 336 | 1x EVG09 136 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 336/36 | 1x EVG09 236 resp.<br>2x EVG09 136 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** 336/36 NE | 1x VE12 236 + Battery boxes<br>eBK12 NE resp. eBS12 NE | 220 V – 254 V AC | 50 Hz – 60 Hz |
| eLL * ** 336/36 NE | 1x VE12 236-1 + Battery boxes<br>eBK 12 NE resp. eBS12 NE | 120 V AC | 50 Hz – 60 Hz |
| eLL* ** 358 | 1x EVG 09 158 | 220 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 358/58 | 1x EVG09 258 resp.<br>2x EVG09 158 | 220 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 336/36 ZB | 2x EVG09 136 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 358/58 ZB | 2x EVG09 158 | 220 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |


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| Type of luminaire | Type of electronic ballast / supply unit | Nominal voltage | Frequency |
|---|---|---|---|
| eLL* ** 318/18 NIB | 1x VE/EVG05 218 + Battery boxes eBK02 NIB resp. eBS09 NIB | 220 V – 254 V AC | 50 Hz – 60 Hz |
| eLL* ** 318/18 NIB | 1x VE/EVG05 218-1 + Battery boxes eBK02 NIB resp. eBS09 NIB | 110 V – 127 V AC | 50 Hz – 60 Hz |
| eLL* ** 336 NIB | 1x VE97236 + 1x EVG09 136 + Battery boxes eBK 02 NIB resp. eBS 09 NIB | 220 V – 254 V AC | 50 Hz – 60 Hz |
| eLL* ** 336 NIB | 1x VE97 236-1 + 1x EVG09 136 + Battery boxes eBK 02 NIB resp. eBS09 NIB | 110 V – 127 V AC | 50 Hz – 60 Hz |
| eLL* ** 336/36 NIB | 1x VE97 236 +1x EVG09 236 + Battery boxes eBK 02 NIB resp. eBS09 NIB | 220 V – 254 V AC | 50 Hz – 60 Hz |
| eLL* ** 336/36 NIB | 1x VE97 236-1 + 1x EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB | 110 V – 127 V AC | 50 Hz – 60 Hz |

Bi-pin lamp cap type G13

| Type of luminaire | Type of electronic ballast / supply unit | Nominal voltage | Frequency |
|---|---|---|---|
| eLL* ** 018 [1)] | 1x EVG09 118 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 018/18 [1)] | 1x EVG09 218 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 036 [1)] | 1x EVG09 136 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 036/36 [1)] | 1x EVG09 236 resp.<br>2x EVG09 136 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 058 [1)] | 1x EVG09 158 | 220 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 058/58 [1)] | 1x EVG09 258 resp.<br>2x EVG09 158 | 220 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 036/36 ZB [1)] | 2x EVG09 136 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 058/58 ZB [1)] | 2x EVG09 158 | 220 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 018/18 NIB | 1x VE/EVG05 218 + Battery boxes eBK02 NIB resp. eBS09 NIB | 220 V – 254 V AC | 50 Hz – 60 Hz |
| eLL* ** 018/18 NIB | 1x VE/EVG05 218-1 + Battery boxes eBK02 NIB resp. eBS 09 NIB | 110 V – 127 V AC | 50 Hz – 60 Hz |
| eLL * ** 018/18 NE | 1x VE12 218 + Battery boxes eBK12 NE resp. eBS12 NE | 120 V – 254 V AC | 50 Hz – 60 Hz |


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| Type of luminaire | Type of electronic ballast / supply unit | Nominal voltage | Frequency |
|---|---|---|---|
| eLL * ** 036/36 NE | 1x VE12 236 + Battery boxes eBK12 NE resp. eBS12 NE | 220 V – 254 V AC | 50 Hz – 60 Hz |
| eLL * ** 036/36 NE | 1x VE12 236-1 + Battery boxes eBK12 NE resp. eBS12 NE | 120 V AC | 50 Hz – 60 Hz |
| eLL* ** 036 NIB | 1x VE97 236 + 1x EVG09 136 + Battery boxes eBK02 NIB resp. eBS09 NIB | 220 V – 254 V AC | 50 Hz – 60 Hz |
| eLL* ** 036 NIB | 1x VE97 236-1 + 1x EVG09 136 + Battery boxes eBK02 NIB resp. eBS09 NIB | 110 V – 127 V AC | 50 Hz – 60 Hz |
| eLL* ** 036/36 NIB | 1x VE97 236 + 1x EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB | 220 V – 254 V AC | 50 Hz – 60 Hz |
| eLL* ** 036/36 NIB | 1x VE97 236-1 + 1x EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB | 110 V – 127 V AC | 50 Hz – 60 Hz |
| eLL * ** 018/18 DCA [1)] | 1x EVG09 218 DCA Version | 110 V – 254 V AC 195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** 036/36 DCA [1)] | 1x EVG09 236 DCA Version | 110 V – 254 V AC 195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 018/18 V-CG-S [1)] | 1x EVG09 218 + V-CG-S Module | 220 V – 254 V AC 195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 036/36 V-CG-S [1)] | 1x EVG09 236 + V-CG-S Module | 220 V – 254 V AC 195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** 058/58 V-CG-S [1)] | 1x EVG09 258 + V-CG-S Module | 220 V – 254 V AC 195 V – 250 V DC | 50 Hz – 60 Hz |

[1)] The luminaire type eLL* ** ***/** * KK can be equipped with one- or both side mounted battery box eB* ** *** in use of a terminal box.


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LED module

| Type of luminaire | Type of electronic ballast / supply unit | Nominal voltage | Frequency |
|---|---|---|---|
| eLL* ** LED 400 [1)] | 1x EVG09 218 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** LED 800 [1)] | 1x EVG09 236 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** LED 800 ZB [1)] | 2x EVG09 136 | 220 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL* ** LED 400 NIB | 1x VE/EVG05 218 + Battery boxes eBK02 NIB resp. eBS09 NIB | 220 V – 254 V AC | 50 Hz – 60 Hz |
| eLL* ** LED 400 NIB | 1x VE/EVG05 218-1 + Battery boxes eBK02 NIB resp. eBS09 NIB | 110 V – 127 V AC | 50 Hz – 60 Hz |
| eLL* ** LED 800 NIB | 1x VE97 236 + 1x EVG09 136 resp. EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB | 220 V – 254 V AC | 50 Hz – 60 Hz |
| eLL* ** LED 800 NIB | 1x VE97 236-1 + 1x EVG09 136 resp. EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB | 110 V – 127 V AC | 50 Hz – 60 Hz |
| eLL * ** LED 400 NE | 1x VE12 400 + Battery boxes eBK12 NE resp. eBS12 NE | 120 V – 254 V AC | 50 Hz – 60 Hz |
| eLL * ** LED 800 NE | 1x VE12 800 + Battery boxes eBK12 NE resp. eBS12 NE | 120 V – 254 V AC | 50 Hz – 60 Hz |
| eLL * ** LED 400 DCA [1)] | 1x EVG09 218 DCA Version | 110 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** LED 800 DCA [1)] | 1x EVG09 236 DCA Version | 110 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** LED 400HT [1)] | EVG09 400HT | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** LED 800HT [1)] | EVG09 800HT | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** LED 400 V-CG-S [1)] | 1x EVG09 218 + V-CG-S Module | 220 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** LED 400-1 V-CG-S [1)] | 1x EVG 09 218 + V-CG-S Module | 220 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** LED 400-1 [1)] | 1 x EVG 09 218 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** LED 800 V-CG-S [1)] | 1x EVG09 236 + V-CG-S Module | 220 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** LED 400HT V-CG-S [1)] | 1x EVG09 400HT + V-CG-S Module | 220 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** LED 800HT V-CG-S [1)] | 1x EVG09 800HT + V-CG-S Module | 220 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |


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| Type of luminaire | Type of electronic ballast / supply unit | Nominal voltage | Frequency |
|---|---|---|---|
| eLL * ** LED 800HT NIB | 1x EVG09 800HT + VE97 236 + eBK02 NIB resp. eBS09 NIB | 220 V – 254 V AC | 50 Hz – 60 Hz |
| eLL * ** LED 800HT NIB | 1x EVG09 800HT + VE97 236-1 + eBK02 NIB resp. eBS09 NIB | 110 V – 127 V AC | 50 Hz – 60 Hz |
| eLL * ** LED 400HT NE | 1x VE12 400HT + eBK12 NE resp. eBS12 NE | 120 V – 254 V AC | 50 – 60 Hz |
| eLL * ** LED 800HT NE | 1x VE12 800HT + eBK12 NE resp. eBS12 NE | 120 V – 254 V AC | 50 – 60 Hz |
| eLL * ** LED 400A [1)] | 1x EVG09 218 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** LED 800A [1)] | 1x EVG09 236 | 110 V – 254 V AC<br>110 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** LED 400A NE | 1x VE12 400 + Battery boxes eBK12 NE resp. eBS12 NE | 120 V – 254 V AC | 50 Hz – 60 Hz |
| eLL * ** LED 800A NE | 1x VE12 800 + Battery boxes eBK12 NE resp. eBS12 NE | 120 V – 254 V AC | 50 Hz – 60 Hz |
| eLL * ** LED 400A DCA [1)] | 1x EVG09 218 DCA Version | 110 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** LED 800A DCA [1)] | 1x EVG09 236 DCA Version | 110 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** LED 400A V-CG-S [1)] | 1x EVG09 218 + V-CG-S Module | 220 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |
| eLL * ** LED 800A V-CG-S [1)] | 1x EVG09 236 + V-CG-S Module | 220 V – 254 V AC<br>195 V – 250 V DC | 50 Hz – 60 Hz |

[1)] The luminaire type eLL* ** ***/** * KK can be equipped with one- or both side mounted battery box eB* ** *** in use of a terminal box.

15.3.2 Thermal parameters

15.3.2.1 Type eLL* ** ***/** * [1)]

Ambient temperature range if U < 220 V -25 °C ≤ $T_a$ ≤ +50 °C
Ambient temperature range if U ≥ 220 V -25 °C ≤ $T_a$ ≤ +55 °C

15.3.2.2 Type eLL* ** *18/18 NIB
Type eLL* ** *18/18 V-CG-S [1)]
Type eLL* ** *36/36 V-CG-S [1)]
Type eLL* ** LED ***HT V-CG-S [1)]
Type eLL* ** LED ***A V-CG-S [1)]
Type eLL* ** LED ***A * [1)] (with Diffusor)
Type eLL* ** LED ***A NE (with Diffusor)

Ambient temperature range -25 °C ≤ $T_a$ ≤ +50 °C


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15.3.2.3 Type eLL* ** *36/36 NIB
Type eLL* ** *18/18 NE
Type eLL* ** *36/36 NE
Type eLL* ** *36/36 NE (220 V - 254 V AC with through-wiring)
Type eLL* ** *36/36 NE (120 V AC without through-wiring)
Type eLL* ** *36/36 ZB [1)]
Type eLL* ** *58/58 ZB [1)]
Type eLL* ** LED *** HT [1)]
Type eLL* ** LED 800HT NIB
Type eLL* ** LED ***HT NE
Type eLL* ** LED ***A * [1)]
Type eLL* ** LED ***A NE

Ambient temperature range -25 °C ≤ $T_a$ ≤ +55 °C

15.3.2.4 Type eLL* ** *36/36 NE (120 V AC with through-wiring)
Type eLL* ** *58/58 [1)]
Type eLL* ** *58/58 V-CG-S [1)]

Ambient temperature range -25 °C ≤ $T_a$ ≤ +40 °C

15.3.2.5 Type eLL* ** LED *** * [1)]
Type eLL* ** LED *** V-CG-S [1)]
Type eLL* ** LED 400-1 V-CG-S [1)]
Type eLL* ** LED 400-1 [1)]
Type eLL* ** LED *** NE (120 V - 254 V AC)

Ambient temperature range -25 °C ≤ $T_a$ ≤ +45 °C

[1)] The luminaire type eLL* ** ***/** * KK can be equipped with one- or both side mounted battery box eB* ** *** in use of a terminal box.

## 16 Report Number

BVS PP 09.2044 EU, as of 2018-08-03

## 17 Special Conditions for Use

None

## 18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

## 19 Drawings and Documents

Drawings and documents are listed in the confidential report.

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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 2018-08-03
BVS-Pz/Nu A 20180383

Certifier

Approver


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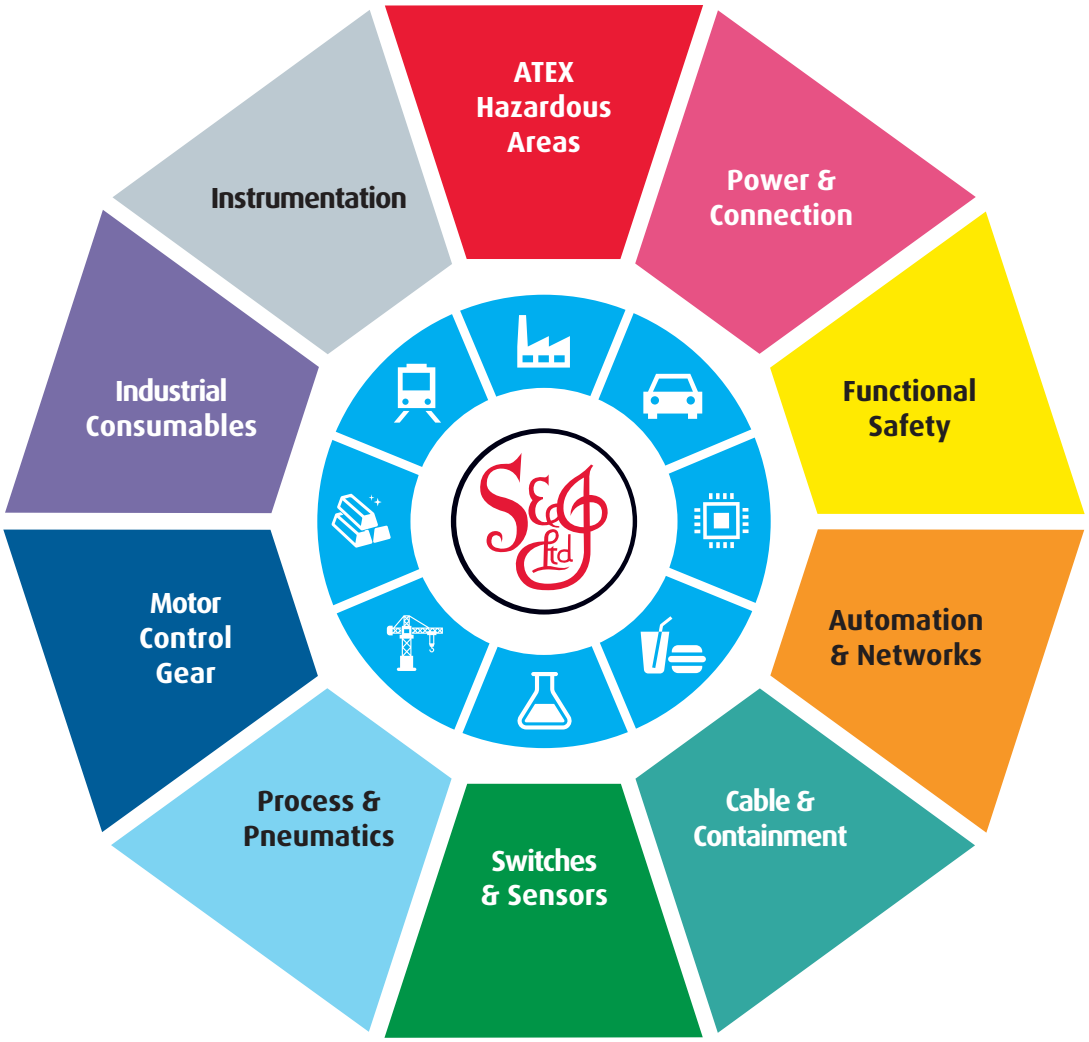


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