



Translation

EC-Type Examination Certificate

(1)

(2)

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

(3)

BVS 09 ATEX E 034

(4)

Equipment: **Fluorescent lighting fixture type eLL* * * * ***

(5)

Manufacturer: **Cooper Crouse-Hinds GmbH (formerly CEAG)**

(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 09.2044 EG.

(9)

The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2006	General requirements
EN 60079-1:2004	Flameproof Enclosure
EN 60079-7:2007	Increased Safety
EN 61241-0:2006	General requirements
EN 61241-1:2004	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 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 de IIC T4
II 2D Ex tD A21 IP66 T80°C

DEKRA EXAM GmbH

Bochum, dated 6th April 2009

Signed: Simanski

Certification body

Signed: Dr. Wittler

Special services unit

(13) Appendix to

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

BVS 09 ATEX E 034

(15) 15.1 Subject and type

Fluorescent lighting fixture type eLL* * * * *	
None	: Standard
ZB	: suitable for emergency power supply
18	: 1x 18W
18/18	: 2x 18W
36	: 1x 36W
36/36	: 2x 36W
58	: 1x 58W
58/58	: 2x 58W
0	: bi-pin lamp cap type G13
3	: one-pin lamp cap type FA6
08	: stainless steel enclosure
92	: plastic enclosure or pole mounting
K	: plastic enclosure
M	: pole mounted light with plastic enclosure
S	: stainless steel enclosure

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, either one single, one double or two single, are used as electronic ballast (cf. PTB 05 ATEX 2018 U).

The luminaires may be replaced inside the potentially explosive atmosphere if the fluorescent lighting fixture is equipped with a separately certified light switch (cf. PTB 00 ATEX 1105 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.

The lighting fixtures that are equipped with a luminaire size T12 (38mm 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.

15.3 Parameters

15.3 Electrical data

One-pin lamp cap type FA6

Type of luminaire	Type of electronic ballast	Nominal voltage	Frequency
eLL * ** 318/18	1x EVG 05 218	110V – 254V AC 195V – 250V DC	47Hz – 63Hz
eLL * ** 318/18	1x EVG 05 217	110V – 254V AC 110V – 127V DC	47Hz – 63Hz
eLL * ** 336/36	1x EVG 05 236	110V – 254V AC 110V – 250V DC	47Hz – 63Hz
eLL * ** 336	1x EVG 05 136	110V – 254V AC 110V – 250V DC	47Hz – 63Hz
eLL * ** 336/36	2x EVG 05 136	110V – 254V AC 110V – 250V DC	47Hz – 63Hz
eLL * ** 358/58	1x EVG 05 258	220V – 254V AC 195V – 250V DC	47Hz – 63Hz
eLL * ** 358	1x EVG 05 158	110V – 254V AC 110V – 250V DC	47Hz – 63Hz
eLL * ** 358/58	2x EVG 05 158	110V – 254V AC 110V – 250V DC	47Hz – 63Hz
eLL * ** 336/36 ZB	2x EVG 05 136	110V – 254V AC 110V – 250V DC	47Hz – 63Hz
eLL * ** 358/58 ZB	2x EVG 05 158	110V – 254V AC 110V – 250V DC	47Hz – 63Hz

Bi-pin lamp cap type G13

Type of luminaire	Type of electronic ballast	Nominal voltage	Frequency
eLL * ** 018/18	1x EVG 05 218	110V – 254V AC 195V – 250V DC	47Hz – 63Hz
eLL * ** 018/18	1x EVG 05 217	110V – 254V AC 110V – 127V DC	47Hz – 63Hz
eLL * ** 036/36	1x EVG 05 236	110V – 254V AC 110V – 250V DC	47Hz – 63Hz
eLL * ** 036	1x EVG 05 136	110V – 254V AC 110V – 250V DC	47Hz – 63Hz
eLL * ** 036/36	2x EVG 05 136	110V – 254V AC 110V – 250V DC	47Hz – 63Hz
eLL * ** 058/58	1x EVG 05 258	220V – 254V AC 195V – 250V DC	47Hz – 63Hz
eLL * ** 058	1x EVG 05 158	110V – 254V AC 110V – 250V DC	47Hz – 63Hz
eLL * ** 058/58	2x EVG 05 158	110V – 254V AC 110V – 250V DC	47Hz – 63Hz
eLL * ** 036/36 ZB	2x EVG 05 136	110V – 254V AC 110V – 250V DC	47Hz – 63Hz

eLL * ** 058/58 ZB	2x EVG 05 158	110V – 254V AC 110V – 250V DC	47Hz – 63Hz
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15.4 Thermal data

Ambient temperature range if $U < 220V$

$-25^{\circ}C \leq T_a \leq +50^{\circ}C$

Ambient temperature range if $U \geq 220V$

$-25^{\circ}C \leq T_a \leq +55^{\circ}C$

(16) Test and assessment report

BVS PP 09.2044 EG as of 06.04.2009

(17) Special conditions for safe use

None

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, 27.04.2009
BVS-Kr/Ld/Ar A 20090147

DEKRA EXAM GmbH



Certification body



Special services unit