IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx BVS 09.0033

Issue No: 0

Status: **Current**

Date of Issue: **2009-06-26**

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

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

Optional accessory:

Type of Protection: **flameproof enclosures "d", increased safety "e", protection by enclosures "tD"**

Marking: Ex de IIC T4
Ex tD A21 IP66 T80 °C

Certificate history:
Issue No. 13 (2017-11-13)
Issue No. 12 (2017-04-25)
Issue No. 11 (2016-09-16)
Issue No. 10 (2015-12-17)
Issue No. 9 (2015-08-20)
Issue No. 8 (2014-10-29)
Issue No. 7 (2014-09-10)
Issue No. 6 (2013-07-04)
Issue No. 5 (2013-03-05)
Issue No. 4 (2012-09-18)
Issue No. 3 (2012-02-29)

Approved for issue on behalf of the IECEx Certification Body: H.-Ch. Simanski

Position: Head of Certification Body

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA EXAM GmbH

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

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2004 Edition:4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 61241-0 : 2004 Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*This Certificate **does not** indicate compliance with electrical 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/ExTR09.0031/00

Quality Assessment Report:

DE/PTB/QAR07.0008/01

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

General product information:

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. IECEx PTB 07.0056U).
The luminaires may be replaced inside the potentially explosive atmosphere if the fluorescent lighting fixture is equipped with a separately evaluated light switch 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.

Type Code :

see Annex

SPECIFIC CONDITIONS OF USE: NO

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EQUIPMENT (continued):

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	47Hz - 63Hz

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		110V - 250V DC	
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

Thermal data
Ambient temperature range if U < 220V -25°C ≤ Ta ≤ +50°C
Ambient temperature range if U ≥ 220V -25°C ≤ Ta ≤ +55°C