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 CNEX 17.0001X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2017-01-22		
Applicant:	**CZ Explosion-proof Electric Appliances Co, Ltd** No.1 Qixing Rd, Qixing Town, Nanhu District, Jiaxing, Zhejiang **China**		
Equipment:	**LED explosion-proof light fittings model CZ0870d**		
Optional accessory:			
Type of Protection:	**Ex db, eb, op is, tb**		
Marking:	**Ex db eb op is IIC T5/T4 Gb** **Ex tb III C T95°C/T130°C Db**		

Approved for issue on behalf of the IECEx Certification Body: **Wu Jianguo**

Position: **Certification Officer**

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 www.iecex.com or use of this QR Code.

Certificate issued by:

CNEX-Global B.V.
Utrechtseweg 310
6812AR, Arnhem
Netherlands

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Date of issue: 2017-01-22 Issue No: 0

Manufacturer: **CZ Explosion-proof Electric Appliances Co, Ltd**
No.1 Qixing Rd, Qixing Town, Nanhu District, Jiaxing, Zhejiang
China

Additional manufacturing locations:

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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:

NL/CNEX/ExTR17.0001/00

Quality Assessment Report:

CN/CQM/QAR08.0001/05

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The LED explosion-proof light model CZ0870d is made of an aluminum enclosure with a toughened glass window and consists of a light and electronics compartment in type of explosion protection flameproof enclosure ‘db’ and a terminal enclosure in type of explosion protection increased safety ‘eb’. If used in explosive dust environments, the enclosure can be regarded as having the type of explosion protection ‘tb’.

See the Annex for further details.

SPECIFIC CONDITIONS OF USE: YES as shown below:
The ambient temperature range is limited as follows:
-20 °C ≤ Ta ≤ +40 °C / +55 °C, or
-40 °C ≤ Ta ≤ +40 °C / +55 °C.

Repair of the threaded joints must be made in compliance with the specifications provided by the manufacturer. Repairs must not be made only on the basis of values specified in table 4 of EN 60079-1.

The two fasteners screws on the lamp body shall only be replaced with the correct type, provided by the manufacturer. See the Operating Instructions from the manufacturer.

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Additional information:
Additional Information:
The enclosure of the LED explosion-proof light model CZ0870d successfully passed the tests for the Ingress Protection level IP66 to EN 60529.

Annex:

P150002-CCA Annex 01 to IECEx CoC.pdf

Annex 01 to
Certificate IECEx CNEX 17.0001X

Equipment or Protective System:	LED Explosion-proof Light Fittings model CZ0870d/□□-LED □W
Manufacturer:	CZ Explosion-proof Electric Appliances Co., Ltd.
Address:	No.1 Qixing Rd, Qixing Town, Nanhu District, Jiaxing, Zhejiang, P.R. China

Nomenclature for CZ 08 70 d / a b – LED cW:

CZ	=	Manufacturer abbreviation
08	=	Year of development
70	=	Light fitting specification code
d	=	Flame proof 'd'
a	=	Angle of luminous code (105=120°, 108=60°, 110=85°x135°, 112=40°)
b	=	Mounting arrangements (B=Bracket type lamp, C=Platform type lamp 90°, D=Platform type lamp 25°, E=Wall type lamp, F=Street lamp)
LED	=	LED light source
cW	=	Power (90 W, 120 W or 160 W)

Electrical Data:
Rated voltage ……. : 110~250 Vac
Rated power ……... : 90 W, 120 W, 160 W
Rated frequency ……. : 50/60 Hz

Mounting Instructions:
See the Operating Instructions from the manufacturer.

Installation Instructions:
Only suitable certified increased safe cable glands and stopping plugs are to be used, suitable for the conditions of use, minimum IP66 rated and correctly installed.
See the Operating Instructions from the manufacturer.

Routine tests:
Each flameproof enclosure shall be tested conform EN 60079-1 cl. 16.1, with an overpressure maintained for minimum 10 seconds, as follows:

Ambient temperature range [°C]	Electronics compartment [MPa]	Light source compartment [MPa]
-20 ≤ Ta ≤ +40 / +55	1.14	1.04
-40 ≤ Ta ≤ +40 / +55	1.26	1.46

Each increased safe terminal compartment shall be tested with a dielectric strength test conform EN 60079-7 cl. 7.1, with a voltage of 1500 Vac for minimum 60 seconds.

Descriptive Documents:
Detailed in the Test Report Cover document. (ref. CQST/ExTR1601G001).

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