



# 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](http://www.iecex.com)

Certificate No.: IECEx CQM 10.0012 Issue No: 2 Certificate history:  
Status: **Current** Issue No. 2 (2015-12-21)  
Date of Issue: **2015-12-21** Issue No. 1 (2011-01-18)  
Page 1 of 4 Issue No. 0 (2010-04-02)

Applicant: **CZ EXPLOSION-PROOF ELECTRIC APPLIANCES Co., LTD.**  
No. 1 Qixing Rd, Qixing Town, Nanhu District, Jiaxing City, Zhejiang Province  
Postal code:314 002  
**China**

Equipment: **Full plastic explosion-proof (emergency) fluorescent light fittings CZ0865/6...**  
*Optional accessory:*

Type of Protection: **Ex "d", Ex "e", Ex "q", Ex 'mb", Ex "t'**

Marking:  
For not fitted with explosionproof fuse:  
Ex db e q IIC T4 Gb Ex tb III C T83°C Db (-25°C ≤ Ta ≤ +40°C)  
Ex db e q IIC T4 Gb Ex tb III C T98°C Db (-25°C ≤ Ta ≤ +55°C)  
For fitted with explosionproof fuse:  
Ex db e mb q IIC T4 Gb Ex tb III C T83°C Db(-25°C ≤ Ta ≤ +40°C)  
Ex db e mb q IIC T4 Gb Ex tb III C T98°C Db (-25°C ≤ Ta ≤ +55°C)

Approved for issue on behalf of the IECEx  
Certification Body:

Ji Xiaodong

Position:

General Manager

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](http://www.iecex.com).

Certificate issued by:

**China Quality Mark Certification Group Co., Ltd.**  
No. 33 Zengguang Road, Haidian District,  
Beijing City, Postal code: 100048  
China





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No. 1 Qixing Rd, Qixing Town, Nanhu District, Jiaxing City, Zhejiang Province  
Postal code:314 002  
**China**

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 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-18 : 2009</b> Edition:3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-5 : 2007-03</b> Edition:3	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"
<b>IEC 60079-7 : 2006-07</b> Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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:

[CN/CQM/ExTR10.0016/00](#)

[CN/CQM/ExTR10.0016/01](#)

[CN/CQM/ExTR10.0016/02](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/04](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### Description of equipment

The enclosure of the full plastic explosion-proof (emergency) fluorescent light fitting consists of white plastic enclosure (SMC), plastic light-transmitting cover, silicone rubber foam sealing ring and the rotor shaft. Non emergency fluorescent light installs inside the bi-tube bi-pin fluorescent tube, G5 or G13 lamp holder, metal reflector, terminals, encapsulation fuse module (user's option), flameproof explosion-proof distance switch module, powder-filling explosion-proof ballast module. Besides the above, the emergency fluorescent light also installs inside the ncapsulation explosion-proof emergency indicator module, powder-filling explosion-proof inverter module, and increased safety explosion-proof battery module. The fluorescent lamp uses the rotor shaft to drive the locking plate inside the lamp to open and close the lamp.

The locking plate is interlocked with the distance switch inside the lamp to ensure the automatic deenergise of the lamp-holder when the lamp is open. When the lamp is open, all the live parts inside it are with warning labels. The lamp has interlocking drag hook to prevent the lamp becoming live due to fault operation of the operator.

The certificated EX components CZ0818 explosion-proof module under IECEx CQM 10.0011U with type of protection 'e', 'q' and CZ0207 distance switch module under IECEx CQM 15.0034U with type of protection 'd', 'e' are used in the fluorescent light, CZ0804 explosion-proof fuse under IECEx CQM 11.0009U with type of protection 'e', 'mb' is used in the fuse fitted fluorescent light.

#### Rating

Rated voltage: 110V-240V AC 50/60Hz

Tube power: 1×14W, 1×18W, 1×28W, 1×36W, 2×14W, 2×18W, 2×28W, 2×36W

Emergency tube power: 1×14W, 1×18W, 1×28W, 1×36W

#### SPECIFIC CONDITIONS OF USE: NO

1. The holes for cable entries should be installed with suitably certified cable glands. The unused holes should be closed by suitably certified stopping plugs.
2. Do not open when energized.
3. Clean only with a damp cloth.
4. Do not replace the battery in the explosive gas atmosphere but in safe area.



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

1. IEC60079-0:2007, IEC60079-1:2007, IEC60079-18:2004, IEC61241-0:2004, IEC61241-1:2004 are changed to IEC60079-0:2011, IEC60079-1:2014, IEC60079-18:2009, IEC60079-31:2013.

2. Ex marking for explosive dust atmospheres is changed to Ex tb III C T98°C Db (-25°C ≤ Ta ≤ +55°C), Ex tb III C T83°C Db (-25°C ≤ Ta ≤ +40°C).

3. Ambient temperature is changed to -25°C ≤ Ta ≤ +55°C or -25°C ≤ Ta ≤ +40°C.

4. CZ0207 explosion-proof distances switch module has been certificated as EX component.

5. The material of seal ring is changed to silicone rubber foam.

6. Add type CZ086/XW-PM and CZ086/XW YJ-PM.

7. The material of stopping plug for lamp holder, terminal, lamp holder core, emergency signal lamp holder, battery cover and distances switch holder are changed to FRIANYL A3 V2 NC 1102.