



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 CML 16.0135X Issue No: 0 Certificate history:
Issue No. 0 (2016-11-25)

Status: **Current** Page 1 of 3

Date of Issue: **2016-11-25**

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

Equipment: **CZ0264 Explosion-Proof (Emergency) LED Light Fitting / Exit sign lighting fittings**

Optional accessory:

Type of Protection: **Flameproof "db", Increased Safety "eb", Intrinsic Safety "ib", Encapsulation "mb", Dust Protected "tb"**

Marking:
Ex db eb ib mb op is q IIC T4 Gb
Ex tb IIIC T80 ° C Db
Depending on options fitted. See Annex

Approved for issue on behalf of the IECEx
Certification Body:

D R Stubbings MIET

Position:

Technical Director

Signature:
(for printed version)

Date:

2016-11-25

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:

Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Certificate No: IECEx CML 16.0135X Issue No: 0

Date of Issue: 2016-11-25 Page 2 of 3

Manufacturer: **CZ EXPLOSION-PROOF ELECTRIC APPLIANCES CO., LTD**
No. 1 Qixing Rd, Qixing Town, Nanhu District, Jiaxing City, Zhejiang Province
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 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-18 : 2009 Edition:3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-5 : 2015 Edition:4.0	Explosive atmospheres –Part 5: Equipment protection by powder filling "q"
IEC 60079-7 : 2015 Edition:5.0	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:

[GB/CML/ExTR16.0173/00](#)

Quality Assessment Report:

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



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Certificate No: IECEx CML 16.0135X

Issue No: 0

Date of Issue: 2016-11-25

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The CZ0264 Explosion-Proof LED Light Fittings are designed for fixed location hazardous area and rated at 100V to 250V AC. It is available with a clear plastic lens or with additional emergency sign. It is installed to run from cabled power supply but also includes a battery to allow operation in emergency situations where power is not operational.

See Annex

CONDITIONS OF CERTIFICATION: YES as shown below:

See Annex

Annex:

[IECEx CML 16.0135X Certificate Annex.pdf](#)

Annexe to: IECEx CML 16.0135X Issue 0
Applicant: CZ Explosion-Proof Electric Appliances Co., Ltd.
Apparatus: CZ0264 Explosion-Proof (Emergency) LED Light Fitting / Exit sign lighting fittings



Product Description

The CZ0264 Explosion-Proof LED Light Fittings are designed for fixed location hazardous area and rated at 100V to 250V AC. It is available with a clear plastic lens or with additional emergency sign. It is installed to run from cabled power supply but also includes a battery to allow operation in emergency situations where power is not operational.

The design briefly comprises a plastic IP 66 rated enclosure (with optional emergency exit sign graphics), 30 diode LED light module, power module/control gear, battery, cable glands and terminals. In addition to this standard light fitting it may also be fitted with a separately certified Ex mb fuse (IECEx CWM 11.0009U) and/or Ex d switch (IECEx CQM 15.0034U).

The enclosure is made up of a transparent plastic cover and white plastic base. A silicone foam seal is located in a groove in the cover which is secured onto the base by a hinge at one end and a tool secured lock at the other.

Fixed inside the base is the power module, rechargeable battery pack, terminal block and optional fuse and/or switch. Fixed inside the lid is the LED board, indication switch (3 coloured LEDs) and optional sign.

Conditions of manufacture

The following are conditions of manufacture

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. All equipment and separate circuits must satisfy the requirements of IEC 60079-7 CL 7.1 Dielectric tests (Routine) in accordance with IEC 60079-7 CL 6.1. Dielectric strength,
 - at a test voltage of 1,500 V r.m.s. + 5%, -0 % where the working voltage exceeds 90 V Peak;
 - at a test voltage of 500 V r.m.s. + 5%, -0 % where the working voltage does not exceed 90 V; Peakand maintained for at least 1 min without dielectric breakdown occurring. Alternatively, a test shall be carried out at 1,2 times the test voltage, but maintained for at least 100 ms. without dielectric breakdown occurring.
- iii. The insulating properties of each lot of filling material must satisfy the requirements of IEC 60079-5 CL 5.22 Dielectric Strength Test of the Filling Material, prior to filling process.
- iv. All transformer must satisfy the requirements of IEC 60079-11 CL 11.2 Routine Tests for Infallible Transformers where $U = 250$ V. The test voltage shall be applied for a period of at least 60 s. Alternatively, the test may be carried out at 1,2 times the test voltage, but with reduced duration of at least 1 s. The applied voltage shall remain constant during the test. The current flowing during the test shall not increase above that which is expected from the design of the circuit and shall not exceed 5 mA r.m.s. at any time. During these tests, there shall be no breakdown of the insulation between windings or between any winding and the core or the screen.

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- v. Cable gland and stopping plugs when supplied must be suitably rated and certified for use in Group II (Gas) and Group III (Dust) Explosive atmospheres in accordance with the equipment markings.

Conditions of Certification/Special Conditions for Safe Use

- i. Static hazard – Clean only with a damp cloth.
- ii. Do not open when energised.
- iii. Do not discharge or replace the battery in an explosive atmosphere.