



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

Certificate No.: **IECEX CML 16.0116X** Page 1 of 4 [Certificate history:](#)  
Status: **Current** Issue No: 2 [Issue 1 \(2018-02-27\)](#)  
[Issue 0 \(2017-03-06\)](#)  
Date of Issue: 2019-12-04  
Applicant: **CZ Electric Co., Ltd.**  
No. 1 Qixing Road,  
Qixing Town,  
Nanhu District,  
Jiaxing,  
Zhejiang, 314002,  
China  
Equipment: **CZ086, CZ136 and CZ0264 Series Explosion-Proof (Emergency) LED Linear Light Fittings**  
Optional accessory:  
Type of Protection: **Flameproof "db", Powder Filled "q", Increased Safety "eb", Encapsulated "mb", Optical Radiation "op is", Dust Ignition "tb"**  
Marking: Ex db eb mb op is q IIC T6/T5/T4 Gb\*  
Ex tb op is IIIC T80°C Db  
Ta: -25°C to +40°C/+50°C/+55°C  
*\*When the distance switch is not fitted, the equipment is not considered to be flameproof.*  
*\*Refer to description for complete marking.*

Approved for issue on behalf of the IECEx  
Certification Body:

**R C Marshall**

Position:

**Certification Officer**

Signature:  
(for printed version)

Date:

**2019-12-04**

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.
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Certificate issued by:

**Eurofins E&E CML Limited**  
Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port, CH65 4LZ  
United Kingdom





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Zhejiang, 314002,  
**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 60079-18:2014** Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"  
Edition:4.0

**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 60079-5:2015** Explosive atmospheres –Part 5: Equipment protection by powder filling "q"  
Edition:4.0

**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 Reports:

[GB/CML/ExTR17.0008/00](#)

[GB/CML/ExTR18.0027/00](#)

[GB/CML/ExTR19.0222/00](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/06](#)



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**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The CZ086 Series, CZ136 Series and CZ0264 Series Explosion-proof (Emergency) LED Linear Light Fittings are designed for fixed location hazardous areas and rated at 100V to 250V AC. They are installed to run from cabled power supplies but also include the option for emergency batteries.

Refer to Annex for full description and conditions of manufacture.

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

Refer to Annex for specific conditions of use.



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

This issue introduced the following changes:

1. The introduction of two additional models to the CZ136 range.
2. The introduction of the CZ0264 range.
3. Clarification of the marking options available to the ranges covered.

## **Issue 2**

This issue introduced the following changes:

1. Change of applicant's and manufacturer's company name from CZ Explosion-proof Electric Appliances Co., Ltd. to CZ Electric Co., Ltd.

## **Annex:**

[IECEx CML 16.0116X Iss. 2 Certificate Annex\\_1.pdf](#)

**Annexe to:** IECEx CML 16.0116X Issue 2  
**Applicant:** CZ Electric Co., Ltd.  
**Apparatus:** CZ086, CZ136 and CZ0264 Series  
Explosion-Proof (Emergency) LED  
Linear Light Fittings



## Product Description

The CZ086 Series, CZ136 Series and CZ0264 Series Explosion-proof (Emergency) LED Linear Light Fittings are designed for fixed location hazardous areas and rated at 100V to 250V AC. They are installed to run from cabled power supplies but also include the option for emergency batteries.

The enclosures are IP66 rated and incorporate the use of the Explosion-proof LED Light Module CZ1618/11-LED\_\_W\_, the Explosion-proof LED Power Module CZ1618/57-\_x LED\_\_W, and the Explosion-proof LED Inverter Module CZ1618/58-\_x LED\_\_W which are approved under CML ATEX 3341U and IECEx CML 16.0115U.

There are also options for the CZ0819 Series Explosion-proof battery module, the CZ0207 series Explosion-proof isolation switch module which is certified under IECEx CQM 15.0034U and the CZ0804 series explosion-proof fuse module which is certified under IECEx CQM 11.0009U.

The models are marked as below:

### CZ086 Series and CZ136 Series

Ex eb mb op is q IIC T5/T4 Gb	(standard without isolation switch)
Ex db eb mb op is q IIC T5/T4 Gb	(standard with isolation switch)
Ex eb mb op is q IIC T4 Gb	(emergency without isolation switch)
Ex db eb mb op is q IIC T4 Gb	(emergency with isolation switch)
Ex tb op is IIIC T80°C Db	

The T Class for the standard versions is dependant on the ambient:

Standard versions:

T5 at  $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

T4 at  $-25^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

Emergency versions

T4 at  $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+50^{\circ}\text{C}$  (CZ0865)

T4 at  $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+55^{\circ}\text{C}$  (CZ0866 and CZ136)

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### **CZ1363 Series**

Ex eb mb op is q IIC T4 Gb

Ex tb op is IIIC T80°C Db

All versions:

T4 at  $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

### **CZ0264 Series**

Ex db eb mb op is q IIC T6/T5 Gb (with isolation switch)

Ex eb mb op is qb IIC T6/T5 Gb (without isolation switch)

Ex tb op is IIIC T80°C Db

The T Class/ maximum surface temperature is dependant on the ambient:

T6 at  $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

T5 at  $-25^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

## **Conditions of Manufacture**

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the equipment 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 component that is the subject of this certificate. A copy of the certification and/or instructions for the parts shall be provided as part of the luminaire document pack.
- ii. Each unit manufactured shall be subjected to an electric strength test in accordance with IEC 60079-7:2015 clause 7.1. It shall be carried out at  $1000\text{ V} + 2U$  for 60 seconds or at 1.2 times this test voltage for at least 100 ms.

## **Specific Conditions of Use**

The following conditions relate to safe installation and/or use of the equipment.

- i. Due to the risk of static hazards of the CZ086 Series and CZ0264 Luminaire Ranges, the equipment in these ranges shall only be cleaned with a damp cloth.
- ii. The CZ1618 LED, Power, Inverter and fuse modules fitted inside the luminaire enclosure are supplied permanently sealed and therefore no attempt must be made to open or repair them.