



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 16.0116X Issue No: 1 Certificate history:
Status: **Current** Issue No. 1 (2018-02-27)
Date of Issue: **2018-02-27** Issue No. 0 (2017-03-06)
Applicant: **CZ Explosion-Proof Electric Appliances Co., Ltd.**
No. 1 Qixing Rd, Qixing Town, Nanghu District, Jiaxing, Zhejiang, P.R.
China
Equipment: **CZ086, CZ136 and CZ0264 Series Explosion-Proof (Emergency) LED Linear Light
Fittings**
Optional accessory:
Type of Protection: **Flameproof, Powder Filled, Increased Safety, Encapsulated, Optical Radiation, Dust Ignition**
Marking:
Ex db eb mb op is q IIC T6/T5/T4 Gb
Ex eb mb op is q IIC T6/T5/T4 Gb
Ex tb op is IIIC T80°C Db
Ta = -25°C ≤ Ta ≤ +40°C / +50°C / +55°C
Refer to description for complete marking

Approved for issue on behalf of the IECEx
Certification Body:

A C Smith

Position:

Technical Operations Director

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:

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





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

| | |
|---|---|
| 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 60079-18 : 2014 Edition:4.0 | 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/ExTR17.0008/00](#) [GB/CML/ExTR18.0027/00](#)

Quality Assessment Report:

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



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Schedule

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 Conditions of Use.



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

The following changes were made as part of this issue:

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.

Annex:

[IECEX CML 16.0116X Iss. 1 Certificate Annex.pdf](#)

Annexe to: IECEx CML 16.0116X Issue 1
Applicant: CZ Explosion-Proof Electric Appliances 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 IIC 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 IIC 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

There are no additional conditions of manufacture. The existing conditions are shown below for reference:

- 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 EN / 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 condition of certification is altered as a result of this variation:

- 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.