



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 CML 16.0116X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 4	Issue 3 (2021-04-08)
Date of Issue:	2022-08-08		Issue 2 (2019-12-04)
Applicant:	CZ Electric Co., Ltd. No. 1 Qixing Road, Qixing Town, Nanhu District, Jiaxing, Zhejiang, 314002, China		Issue 1 (2018-02-27)
Equipment:	CZ086, CZ136, CZ0264 and CZ186 Series Explosion-Proof (Emergency) LED Linear Light Fittings		
Optional accessory:			
Type of Protection:	Flameproof "db", Powder Filled "q", Increased Safety "eb", Encapsulated "mb", Dust Ignition "tb"		
Marking:	Ex db eb mb q IIC T6/T5/T4 Gb* Ex tb IIIC T80°C Db Ta: -25°C/-40°C to +40°C/+50°C/+55°C		
	<i>* Refer to description (certificate annex) for complete marking and for the protection concept symbols applied to each model.</i>		

Approved for issue on behalf of the IECEx
Certification Body:

A Snowden

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

2022-08-08

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Manufacturer: **CZ Electric Co., Ltd.**
No. 1 Qixing Road,
Qixing Town,
Nanhu District,
Jiaxing,
Zhejiang, 314002,
China

Manufacturing
locations: **CZ Electric Co., Ltd.**
No. 1 Qixing Road,
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Jiaxing,
Zhejiang, 314002,
China

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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

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

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

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 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/ExTR21.0082/00

GB/CML/ExTR18.0027/00
GB/CML/ExTR22.0045/00

GB/CML/ExTR19.0222/00

Quality Assessment Report:

CN/CQM/QAR08.0001/08



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The CZ086 Series, CZ136 Series, CZ0264 Series and CZ186 Series Explosion-proof (Emergency) LED Linear Light Fittings are designed for fixed location hazardous areas and rated at 100V to 250V AC, unless otherwise stated in the annex to this certificate. 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.

Issue 3

This issue introduced the following changes:

1. Correction of typographical errors on the marking drawings.
2. Superseding of the list of drawings which was approved for issue 2 of this certificate.

Issue 4

This issue introduced the following changes:

1. The introduction of an alternative power module and LED light source in the CZ136 model
2. Changes to the operating temperature range of the CZ0264 model
3. The introduction of an alternative power module and LED light source in the CZ0264 model
4. The use of alternative enclosure materials in the CZ0264 model
5. The introduction of new LED luminaire type CZ186
6. The removal of "op is" marking from all models, and removal of IEC 60079-28 from the certificate
7. Update of standards IEC 60079-0, IEC 60079-7 & IEC 60079-18

Annex:

[IECEx CML 16.0116X Iss. 4 Certificate Annex.pdf](#)

Annexe to: IECEx CML 16.0116X Issue 4

Applicant: CZ Electric Co., Ltd.

Apparatus: CZ086, CZ136, CZ0264 and CZ186
Series Explosion-Proof (Emergency)
LED Linear Light Fittings

Description

The CZ086 Series, CZ136 Series, CZ0264 Series, and CZ186 Series Explosion-proof (Emergency) LED Linear Light Fittings are designed for fixed location hazardous areas and rated at 100V to 250V AC/DC unless otherwise stated below. 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 Modules CZ1618/11-LED__W_ and CZ1618/11B-LED__W_, the Explosion-proof LED Power Modules CZ1618/57-_x LED__W and CZ1618/57B-LED__W, the Explosion-proof LED Inverter Modules CZ1618/58-_x LED__W and CZ1618/58B-LED__W which are certified under CML 16 ATEX 3341U and IECEx CML 16.0115U, the MU025HyAQ_MB/z LED driver certified under IECEx TPS 21.0008U, and the MU060HyAQ_MB/z LED driver certified under IECEx TPS 21.0011U.

There are also options for the inclusion of CZ0819 Series Explosion-proof battery module, the CZ0207 series Explosion-proof isolation switch module which is certified under IECEx CQM 15.0034U, the CZ0804 series explosion-proof fuse module which is certified under IECEx CQM 11.0009U, and the CZ0212 Signal lamp and button module certified under IECEx CML 19.0054U.

The models are marked and are rated as below:

CZ086 Series

Type	Gasket type	Gas Classification	Ambient temperature range	Dust Classification	Rating
CZ086x Standard without switch	Silicone rubber	Ex eb mb q IIC T5/T4 Gb	-25°C≤Ta≤+40°C/+55°C	Ex tb IIIC T80°C Db	AC100-250V 50/60Hz
	Polyurethane	Ex eb mb q IIC T5 Gb	-25°C≤Ta≤+40°C		
CZ086x Standard with switch	Silicone rubber	Ex db eb mb q IIC T5/T4 Gb	-25°C≤Ta≤+40°C/+55°C		
	Polyurethane	Ex db eb mb q IIC T5 Gb	-25°C≤Ta≤+40°C		
CZ0865 Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-25°C≤Ta≤+50°C		
	Polyurethane		-25°C≤Ta≤+40°C		
CZ0866 Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-25°C≤Ta≤+55°C		
	Polyurethane		-25°C≤Ta≤+40°C		

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CZ136x Series

Type	Gas Classification	Ambient temperature range	Dust Classification	Rating
All models	Ex db eb mb q IIC T6 Gb	-25°C≤Ta≤+40°C	Ex tb IIIC T80°C Db	AC/DC100-250V 50/60Hz
	Ex db eb mb q IIC T5 Gb	-25°C≤Ta≤+55°C		

CZ0264 Series

Type	Gasket type	Gas Classification	Ambient temperature range	Dust Classification	Rating
All models	Silicone rubber	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+55°C	Ex tb IIIC T80°C Db	AC/DC100-250V 50/60Hz
		Ex db eb mb q IIC T6 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T6 Gb	-40°C≤Ta≤+40°C		

CZ186 Series

Type	Gasket type	Gas Classification	Ambient temperature range	Rating	Dust Classification
CZ1865 Standard with CZ1618/57B driver	Silicone rubber	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+55°C	AC/DC100-250V 50/60Hz	Ex tb IIIC T80°C Db
		Ex db eb mb q IIC T6 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T6 Gb	-40°C≤Ta≤+40°C		
CZ1865 Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-40°C≤Ta≤+55°C		
		Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
CZ1866 Standard with CZ1618/57B driver and Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-40°C≤Ta≤+55°C		
		Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
CZ1866 Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-40°C≤Ta≤+55°C		
		Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
CZ1865 Standard with MU025xx driver	Silicone rubber	Ex db eb mb IIC T5 Gb	-40°C≤Ta≤+55°C	AC100-250V 50/60Hz	
		Ex db eb mb IIC T6 Gb	-40°C≤Ta≤+40°C	DC 125-250V	
	Polyurethane	Ex db eb mb IIC T6 Gb	-40°C≤Ta≤+40°C		

Type	Gasket type	Gas Classification	Ambient temperature range	Rating	Dust Classification
CZ1866 Standard with MU060xx driver	Silicone rubber	Ex db eb mb IIC T5 Gb	-40°C≤Ta≤+55°C		
		Ex db eb mb IIC T6 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb IIC T6 Gb	-40°C≤Ta≤+40°C		

Components covered by Ex Certificates issued to older editions of Standards

Certificate number	Standards (incl Ed)	Assessment result
IECEX CML 16.0115U	IEC 60079-0 Ed 7 IEC 60079-18 Ed 4 IEC 60079-7 Ed. 5 IEC 60079-28 Ed 2 IEC 60079-5 Ed 4	Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CQM 11.0009U	IEC 60079-0 Ed 5 IEC 60079-18 Ed 3 IEC 60079-7 Ed. 4	Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CQM 15.0034U	IEC 60079-0 Ed 6 IEC 60079-7 Ed. 4	Technical differences evaluated and found satisfactory. For detail see ExTR

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 product 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 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, CZ0264, and CZ186 Series Luminaire Ranges, the equipment in these ranges shall only be cleaned with a damp cloth.
- ii. CZ186 models incorporating MU025xx or MU060xx drivers shall only be connected to an electrical power supply which is fitted with a protective device which limits the current to a maximum of 10A.
- iii. The cable entries shall be made via suitably certified cable glands providing an ingress protection of IP66. Any unused entries shall be closed with suitably certified blanking plugs providing a degree of protection of IP66.
- iv. CZ186 models contain a flameproof switch. The dimensions of the flameproof joints differ from those of EN/IEC 60079-1 Table 2 and therefore shall not be repaired.
- v. The power and inverter modules fitted inside the luminaire enclosure are supplied permanently sealed and therefore no attempt must be made to open or repair them.