



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 PCET 23.0001X** Page 1 of 4 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-05-19

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

Equipment: **Explosion-proof (Emergency) LED Linear Light fittings; Explosion-proof (Emergency) T8 LED Light fittings**

Optional accessory:

Type of Protection: **"db", "ec", "mb", "tb"**

Marking: **See Attachment.**

Approved for issue on behalf of the IECEx
Certification Body:

Yin Hong

Position:

General manager

Signature:
(for printed version)

Date:
(for printed version)

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2. This certificate is not transferable and remains the property of the issuing body.
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No 85-1, No. 3 Road, Hongqiao District
Tianjin Post Code 300131
China





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Certificate No.: **IECEx PCET 23.0001X**

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

Manufacturing locations: **CZ Electric Co.,Ltd**
No.1 Qixing Rd, Qixing Town , Nanhu District
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 60079-18:2014](#) Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
Edition:4.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[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 Report:

[CN/PCET/ExTR23.0003/00](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/08](#)



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Certificate No.: **IECEx PCET 23.0001X**

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

See Attachment.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Certified cable gland or blanking element should be installed at hole of enclosure. The IP level of cable gland or blanking element should not less than IP66.
2. the warning words "WARNING-POTENTIAL ELECTROSTATIC CHARGING HAZARD" are provided in the instruction. Method should be taken to avoid the accumulation of electrostatic charge, such like clean the enclosure with damp cloth, control the environmental humidity, effective grounding.
3. Due to the risk of static hazards of the CZ087..., CZ187... and CZ0274 Luminaire Ranges, the equipment in these ranges shall only be cleaned with a damp cloth.

The following are conditions of manufacture:

- 1) 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.
- 2) 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 V + 2U for 60 seconds or at 1.2 times this test voltage for at least 100 ms. No flashover or breakdown shall occur.



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Date of issue: 2023-05-19

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Equipment (continued):

See Attachment.

Annex:

[CZ to CoC IECEx PCET 23.0001X_1.pdf](#)

Annex to: IECEx PCET 23.0001X
Applicant: CZ ELECTRIC CO., LTD
Equipment: Explosion-proof (Emergency) LED Linear Light fittings
Explosion-proof (Emergency) T8 LED Light fittings

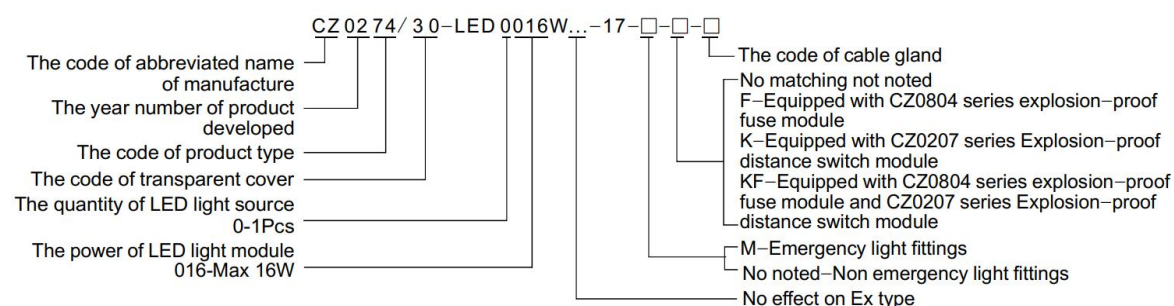


This series of explosion-proof light fittings are fixed installation and be using in hazardous area zone 2 or zone 21. The LED tube/module, power drive, emergency module, battery and terminals are installed inside the enclosure. Type of protection of these components are “ec” and “tb”. Certified CZ0207 explosion-proof distance switch module and CZ0804 explosion-proof fuse module with type of protection “eb”, “db”, “mb” can be installed inside the enclosure as an optional choice, the certification numbers are IECEx CQM 11.0009U, IECEx CQM 15.0034U.

This report covers the following types:

1. CZ0274 Series Explosion-proof (Emergency) LED Linear Light fittings

1) Nomenclature



2) Ex marking

Ex ec II C T5...T4 Gc;(No fitted with distance switch and fuse)

Ex ec mb II C T5...T4 Gc;(F-Only fitted with fuse)

Ex db ec II C T5...T4 Gc;(K-Only fitted with distance switch)

Ex db ec mb II C T5...T4 Gc;(KF-Fitted with distance switch and fuse)

Ex tb IIIC T80°C Db

IP66

3) Ambient temperature

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

T4: $-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

4) Ratings

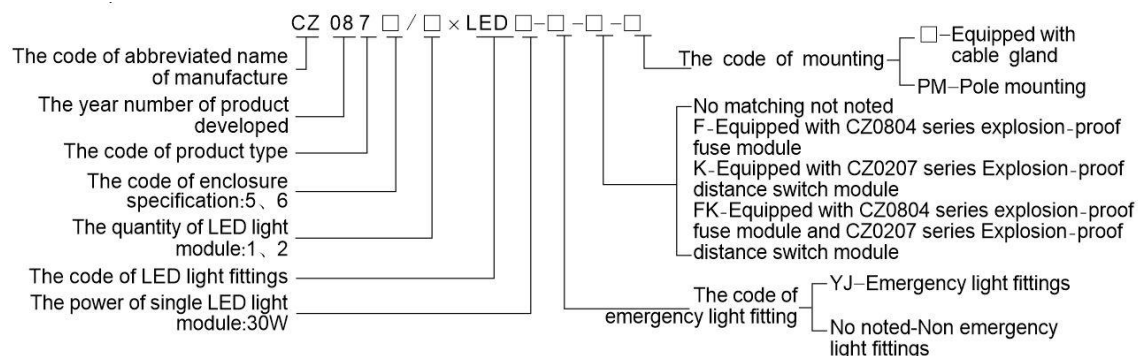
Power of LED single module: Max 16W

Rated voltage: AC/DC100V~250V 50/60Hz

2. CZ087... Series Explosion-proof (Emergency) LED Linear Light fittings

1) Nomenclature

Annex to: IECEx PCET 23.0001X
Applicant: CZ ELECTRIC CO., LTD
Equipment: Explosion-proof (Emergency) LED Linear Light fittings
Explosion-proof (Emergency) T8 LED Light fittings



2) Ex marking

Ex ec II C T5...T4 Gc; (No fitted with distance switch and fuse)

Ex ec mb II C T5...T4 Gc; (F-Only fitted with fuse)

Ex db ec II C T5...T4 Gc; (K-Only fitted with distance switch)

Ex db ec mb II C T5...T4 Gc; (FK-Fitted with distance switch and fuse)

Ex tb IIIC T80°C Db

IP66

3) Ambient temperature

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

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

CZ0875-YJ: T4: $-25^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

4) Ratings

Power of single LED module: 30W

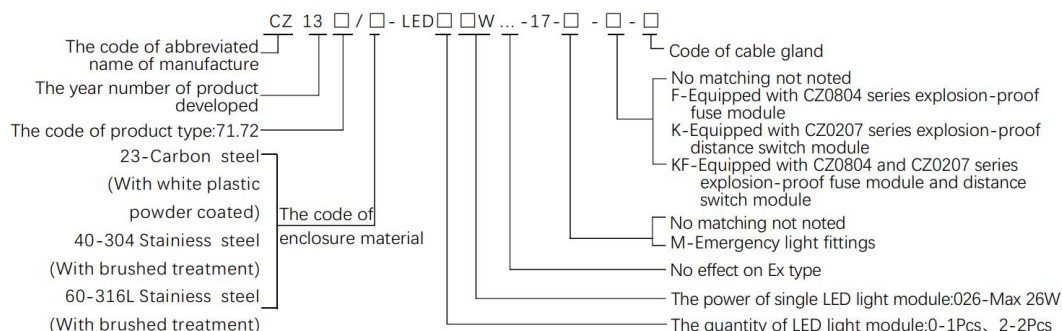
Rated voltage: AC100V~250V 50/60Hz

3. CZ137... Series Explosion-proof (Emergency) LED Linear Light fittings/ CZ137...
Explosion-proof (Emergency) T8 LED Light fittings

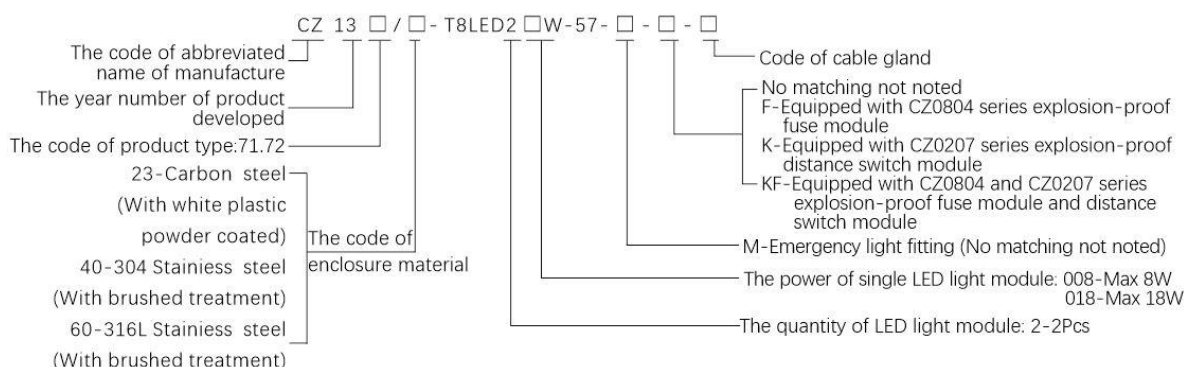
1) Nomenclature

CZ137... Series Explosion-proof (Emergency) LED Linear Light fittings

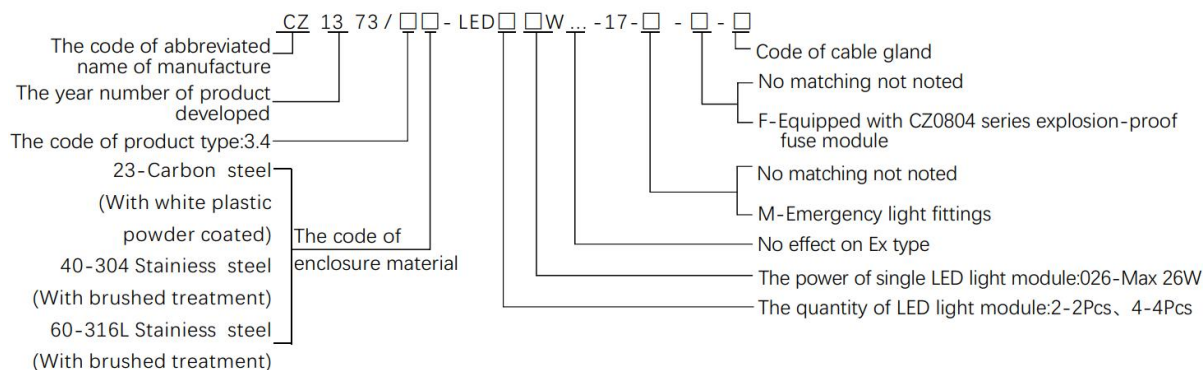
Annex to: IECEx PCET 23.0001X
 Applicant: CZ ELECTRIC CO., LTD
 Equipment: Explosion-proof (Emergency) LED Linear Light fittings
 Explosion-proof (Emergency) T8 LED Light fittings



CZ137... Series Explosion-proof (Emergency) T8 LED Light fittings



CZ1373 Series Explosion-proof (Emergency) LED Linear Light fittings



2) Ex marking

FOR CZ137... Series Explosion-proof (Emergency) LED Linear Light fittings and CZ137... Series Explosion-proof (Emergency) T8 LED Light fittings

Ex ec II C T5...T4 Gc; (No fitted with distance switch and fuse)

Ex ec mb II C T5...T4 Gc; (F-Only fitted with fuse)

Ex db ec II C T5...T4 Gc; (K-Only fitted with distance switch)

Annex to: IECEx PCET 23.0001X
Applicant: CZ ELECTRIC CO., LTD
Equipment: Explosion-proof (Emergency) LED Linear Light fittings
Explosion-proof (Emergency) T8 LED Light fittings



Ex db ec mb II C T5...T4 Gc; (FK-Fitted with distance switch and fuse)

Ex tb IIIC T80°C Db

IP66

For CZ1373 Series Explosion-proof (Emergency)LED Linear Light fittings

Ex ec II C T4 Gc(No fitted with fuse module);

Ex ec mb II C T4 Gc(F-Only fitted with);

Ex tb IIIC T80°C Db

IP66

3) Ambient temperature

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

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

4) Ratings

For CZ137... Series Explosion-proof (Emergency) LED Linear Light fittings

Power of single LED module: Max 26W

Rated voltage: AC/DC100V~250V 50/60Hz

For CZ137... Series Explosion-proof (Emergency) T8 LED Light fittings

Power of single LED Tube: Max 8W, Max 18W

Rated voltage: AC220V~240V 50/60Hz

CZ1373 Series Explosion-proof (Emergency)LED Linear Light fittings

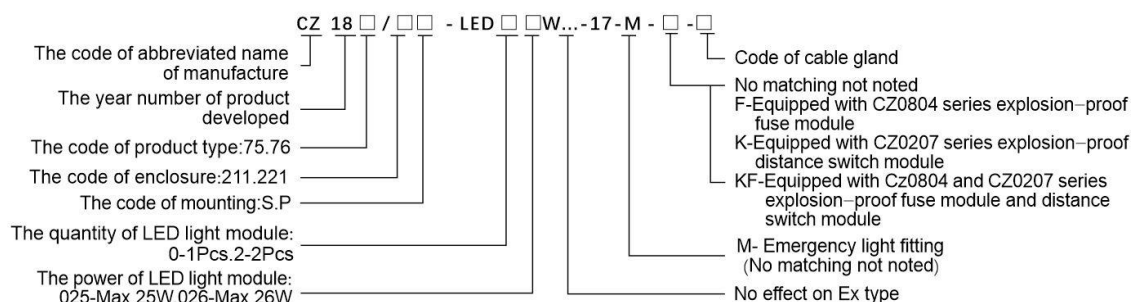
Power of single LED module: Max 26W

Rated voltage: AC/DC100V~250V 50/60Hz

4. CZ187... Series Explosion-proof (Emergency)LED Linear Light fittings and CZ187□ Series Explosion-proof (Emergency) T8 LED Light fittings

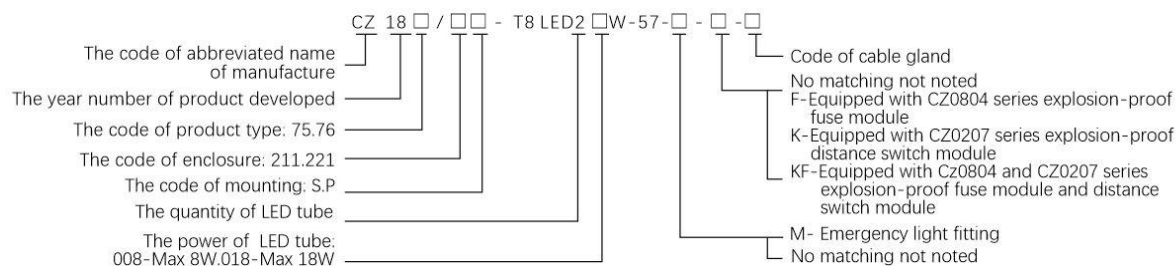
1) Nomenclature

CZ187... Series Explosion-proof (Emergency)LED Linear Light fittings



CZ187... Series Explosion-proof (Emergency) T8 LED Light fittings

Annex to: IECEx PCET 23.0001X
Applicant: CZ ELECTRIC CO., LTD
Equipment: Explosion-proof (Emergency) LED Linear Light fittings
Explosion-proof (Emergency) T8 LED Light fittings



2) Ex marking

For CZ1875 Series Explosion-proof (Emergency)LED Linear Light fittings

Ex ec II C T5...T4 Gc; (No fitted with distance switch and fuse)

Ex ec mb II C T5...T4 Gc; (F-Only fitted with fuse)

Ex db ec II C T5...T4 Gc; (K-Only fitted with distance switch)

Ex db ec mb II C T5...T4 Gc; (FK-Fitted with distance switch and fuse)

Ex tb IIIC T80°C Db

IP66

For CZ187... Series Explosion-proof LED Linear Light fittings, using MU power As follow

Ex ec II C T5...T4 Gc; (No fitted with distance switch and fuse)

Ex ec mb II C T5...T4 Gc; (F-Only fitted with fuse)

Ex db ec II C T5...T4 Gc; (K-Only fitted with distance switch)

Ex db ec mb II C T5...T4 Gc; (FK-Fitted with distance switch and fuse)

Ex tb IIIC T80°C Db

IP66

For CZ1876 Series Explosion-proof (Emergency)LED Linear Light fittings

Ex ec II C T4 Gc; (No fitted with fuse)

Ex ec mb II C T4 Gc; (F-Fitted with fuse)

Ex db ec II C T4 Gc; (K-Only fitted with distance switch)

Ex db ec mb II C T4 Gc; (KF-Fitted with distance switch and fuse)

Ex tb IIIC T80°C Db

IP66

For CZ187... Series Explosion-proof (Emergency) T8 LED Light fittings

Ex ec II C T5...T4 Gc; (No fitted with distance switch and fuse)

Ex ec mb II C T5...T4 Gc; (F-Only fitted with fuse)

Annex to: IECEx PCET 23.0001X
Applicant: CZ ELECTRIC CO., LTD
Equipment: Explosion-proof (Emergency) LED Linear Light fittings
Explosion-proof (Emergency) T8 LED Light fittings



Ex db ec II C T5...T4 Gc; (K-Only fitted with distance switch)

Ex db ec mb II C T5...T4 Gc; (FK-Fitted with distance switch and fuse)

Ex tb IIIC T80°C Db

IP66

3) Ambient temperature

For CZ1875 Series Explosion-proof(Emergency) LED Linear Light fittings

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

T4: $-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

FOR CZ1876 Series Explosion-proof(Emergency) LED Linear Light fittings

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

T4: $-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

For CZ187... Series Explosion-proof (Emergency) T8 LED Light fittings

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

T4: $-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

For CZ187... Series Explosion-proof LED Linear Light fittings, using MU power

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

T4: $-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

4) Ratings

For CZ187... Series Explosion-proof(Emergency) LED Linear Light fittings

Power of single LED module: Max 25W, Max 26W

Rated voltage: AC/DC100V~250V 50/60Hz(AC100V~250V 50/60Hz; DC125V~250V for using MU power)

For CZ187... Series Explosion-proof (Emergency) T8 LED Light fittings

Power of single LED Tube: Max 8W, Max 18W

Rated voltage: AC220V~240V 50/60Hz