



CZ0873/1

CZ0874/1

Descriptions:

The enclosures of explosion-proof light fittings are manufactured of die-cast aluminum alloy, with epoxy resin powder sprayed on the surfaces. Therefore, they have good anti-corrosion performance. The transparent shield is made by the toughened glass borosilicate, and the exposed fasteners are made of stainless steel. Explosion-proof light fitting's terminal box side entry, is suitable for rubber-coated and the armored cable wiring. The internationally certified PHOENIX cage type terminals are selected as the internal terminals, which are convenient for wiring. The unique heat insulation design united with the exterior high density radiator in the explosion-proof light fitting to cause the radiation effect will be better. The LED light source and stabilized voltage supply is supplied inside. It can satisfy the related requirements of illumination in petrochemical, chemical and marine industries.

Explosion-proof light fittings can be sorted as: bracket lamp, platform lamp and wall lamp.

Explosion-proof bracket type lamps can be sorted as: ceiling type, wall sunction type and chain type.

The mounting ways of the explosion-proof platform light fittings C-90° are fence type and platform flange type.

The mounting ways of the explosion-proof platform light fittings D-25° are fence type and platform flange type.

- It is energy-saving and environmental protection which the power consumption is only 19% of the same brightness of incandescent lamp.
- It is long life and maintenance-free which the service life is up to 50000 hours and the maintenance-free of long term.
- There is a feature of good electromagnetic compatibility and it does not cause interference to the system power grid.
- It is not influenced by the voltage fluctuations and can be operated in the wide voltage range of AC100 ~ 240V.
- There is a good performance of vibration due to the LED is the solid-state light source.
- The highest class of flameproof is up to II C.
- The degree of protection is up to IP 66.
- It is convenient to be mounted and maintained.
- International IECEx Approval, Europe union ATEX Approval.

Zone 1 and zone 2

Zone 21 and zone 22

- Product characteristics:



It is easier to be wired by cage type terminal which is certified internationally.



The mounting ways of the explosion-proof platform light fittings C-90°



Installation of ceiling type



Bracket installation, multiple angle adjustment



The mounting ways of the explosion-proof platform light fittings D-25°



Chain type



Installation of wall type lamp

- Many kinds of cable glands:

CZ0226 Increased safety cable glands
(stopping boxes)

CZ0223 Moulded plastic stopping plugs

CZ0220 Moulded plastic cable glands

CZ0227 Metal safety metal cable glands



• Main technical data:

Certification | Ex mark | Meet the standard

China (CQST Ex)	Ex de II C T6 DIP A21 TA,T6	GB3836 GB12476
IECEX	Ex de II C T6 Gb Ex tb III C T80°C Db	IEC60079
ATEX	Ex II 2 GD Ex de II C T6 Gb Ex tb III C T80°C Db	EN60079

Intended use: Can be used in zone 1 and zone 2, Can be used in zone 21 and zone 22

Degree of protection: IP66

Rated voltage: 100 ~ 240V AC 50/60Hz

Colour temperature: 5500 — 6000K

Color rendering (CRT): 70

Power factor: > 0.98

Ambient temperature: -20°C to +40°C / +55°C

-40°C to +40°C / +55°C

Terminal: L1, N cage type terminal 2-2.5mm², PE terminal: 2 × 10mm²

Cable entry: **B**—Bracket type lamp (Standard configuration)

Moulded plastic 1 × M25 × 1.5, Outside diameter: Φ8-17mm

Moulded plastic 1 × M25 × 1.5 stopping plug

C—Platform type lamp 90° (Standard configuration)

D—Platform type lamp 25°





Moulded plastic 1 × M25 × 1.5, Outside diameter: Φ8-17mm

E—Wall type lamp (Standard configuration)

Moulded plastic 1 × M25 × 1.5, Outside diameter: Φ8-17mm

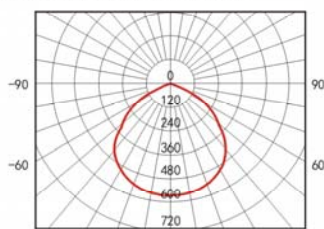
Moulded plastic 3 × M25 × 1.5 stopping plug

• Order specifications:

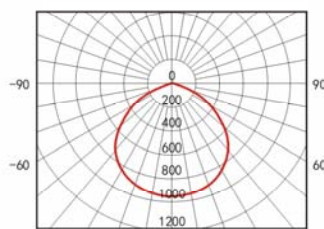
Illustration	Light source code	Power	Temperature class*	Weight	Order No.
			Ta≤55℃		
 B	LED lamp	30W	T6	5.42kg	CZ0873/1□-LED30W-□-B+□
	LED lamp	45W	T6	5.5kg	CZ0874/1□-LED45W-□-B+□
		60W	T6	5.55kg	CZ0874/1□-LED60W-□-B+□
 C	<div>The mounting ways of the light fittings ←</div> <div>B—Bracket type lamp C—Platform type lamp 90° D—Platform type lamp 25° E—Wall type lamp</div> <div>Ambient temperature ←</div> <div>2 — -20℃ to+40℃/+55℃ 4 — -40℃ to+40℃/+55℃</div> <div>Code of cable gland see page 16 ←</div> <div>Order No. of mounting accessories ← (No matching not noted), see page 16</div>				
 D					
 E					

• Luminous intensity distribution curve:

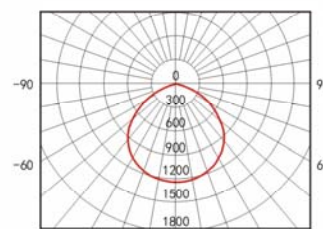
Luminous intensity unit: cd / lm



CZ0873/1□-LED30W



CZ0874/1□-LED45W



CZ0874/1□-LED60W










- Code of cable gland

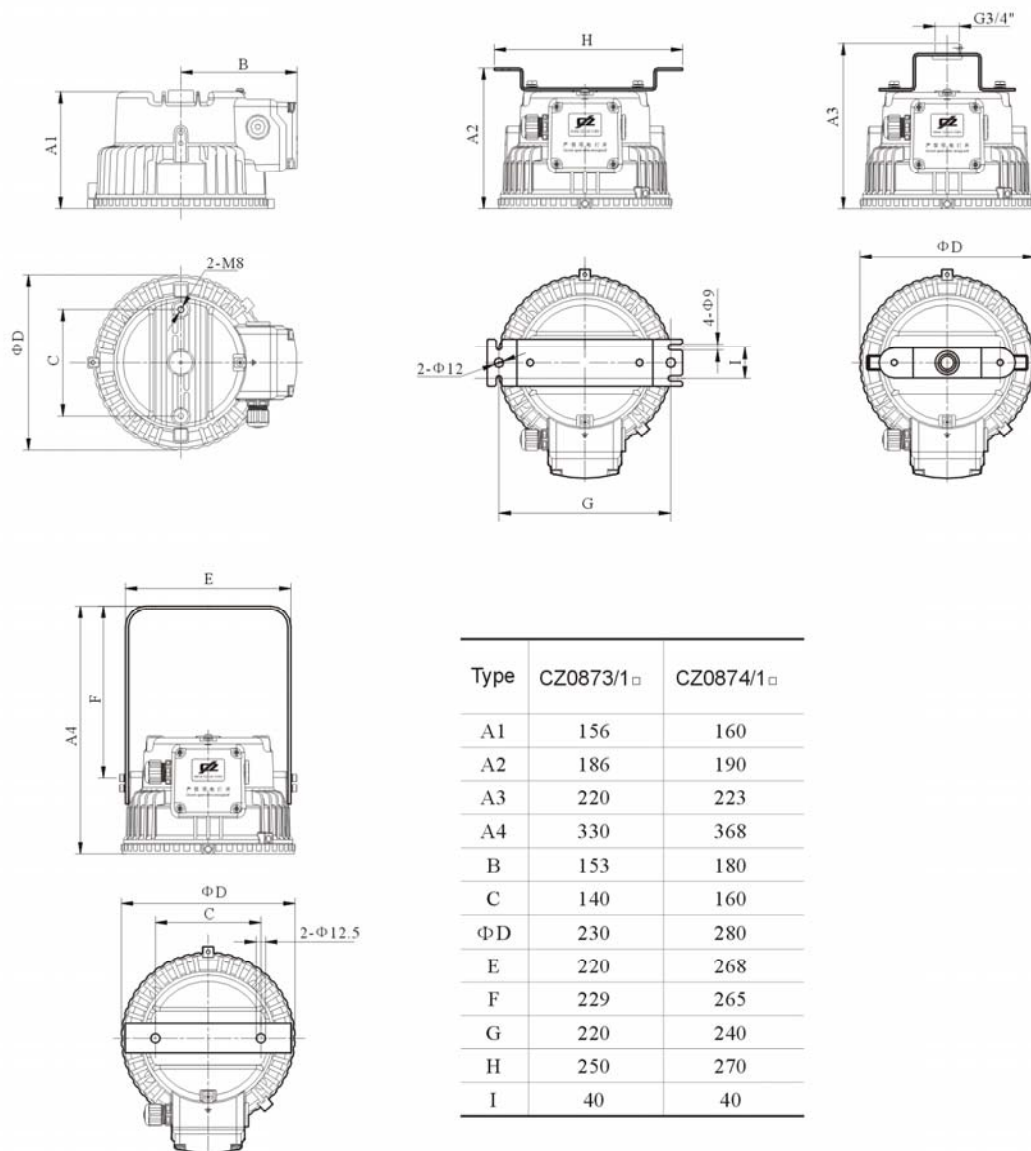
B—Code of cable gland for bracket type lamp		
Code	Specification	Cable diameter
B	One moulded plastic M25 × 1.5 cable gland, one moulded plastic M25 × 1.5 stopping plug	Φ 8-17mm
C	One brass CZ0221/M25 × 1.5 metal cable gland, one moulded plastic M25 × 1.5 stopping plug	Φ 8-17mm
D	Two moulded plastic M25 × 1.5 cable glands	Φ 8-17mm
E	Two brass CZ0221/M25 × 1.5 metal cable glands	Φ 8-17mm
F	One brass CZ0227/M25 × 1.5-G ³ / ₄ " increasd safety metal cable gland, one moulded plastic M25 × 1.5 stopping plug	Φ 11-15mm
G	Two brass CZ0227/M25 × 1.5-G ³ / ₄ " increasd safety metal cable glands	Φ 11-15mm
H	One brass CZ0226/M25 × 1.5-(G02) increasd safety metal cable gland (stopping boxes), one moulded plastic M25 × 1.5 stopping plug	Φ 11.5-16mm
I	Two brass CZ0226/M25 × 1.5-G02 increasd safety metal cable glands (stopping boxes)	Φ 11.5-16mm
E—Code of cable gland for wall typelamp		
13	One moulded plastic M25 × 1.5 cable gland, three moulded plastic M25 × 1.5 stopping plugs.	Φ 8-17mm
22	Two moulded plastic M25 × 1.5 cable glands, two moulded plastic M25 × 1.5 stopping plugs.	Φ 8-17mm
31	Three moulded plastic M25 × 1.5 cable glands, one moulded plastic M25 × 1.5 stopping plug.	Φ 8-17mm
40	Four moulded plastic M25 × 1.5 cable glands	Φ 8-17mm
04	Four moulded plastic M25 × 1.5 stopping plugs.	
Note: If matched with metal cable gland, note after code.		

Note: Cable gland for platform type lamp **C**, **D** is equipped, no need to be mentioned.

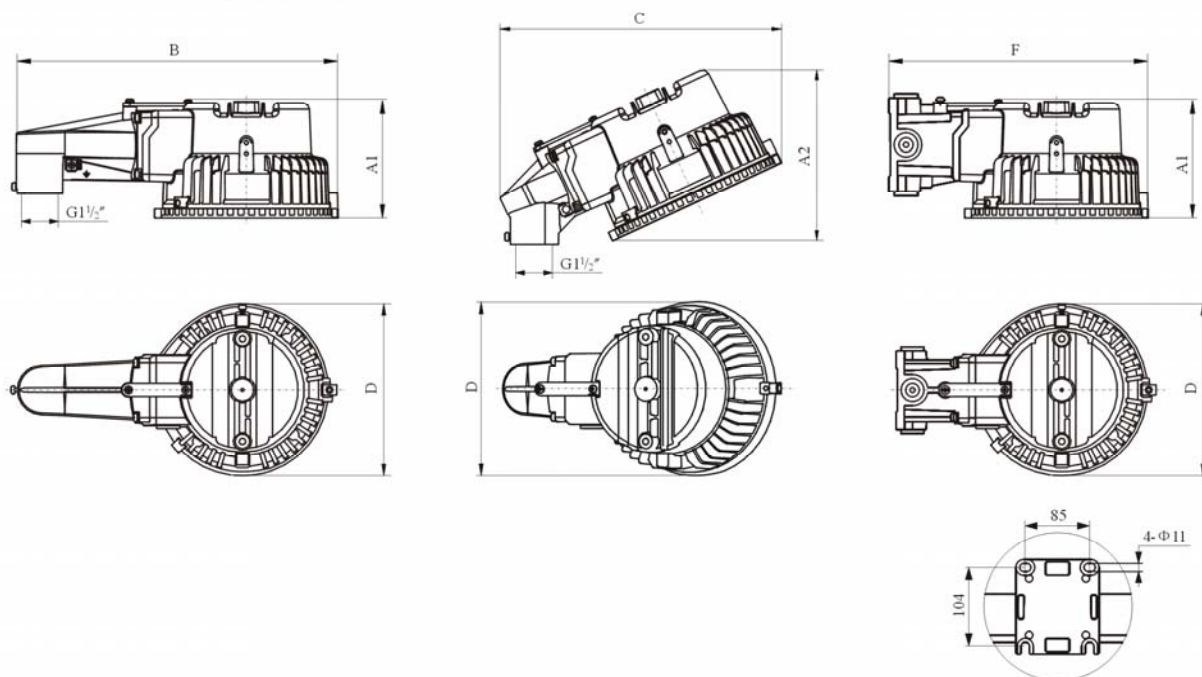
- Mounting accessories:

Illustration	Descriptions	Unit	Order No.
Ceiling bracket 	Accessories for bracket type lamp, for CZ0873/1	Set	D8722/1
	Accessories for bracket type lamp, for CZ0874/1	Set	D8722/2
Mounting bracket 	Accessories for bracket type lamp, for CZ0873/1	Set	D8701/1
	Accessories for bracket type lamp, for CZ0874/1	Set	D8701/2
Mounting bracket of pendant type 	Accessories for bracket type lamp, for CZ0873/1	Set	D8702/1
	Accessories for bracket type lamp, for CZ0874/1	Set	D8702/2
G3/4"-300mm Straight pipe 	Accessories for bracket type, galvanized steel pipe material and powder coated surface	Set	D732
Chain type accessories (500mm) 	Accessories for bracket type lamp, M8 bolt, made from steel with zinc-coated surface	Set	D623
Lamp pole of fence type 	Accessories for platform type lamp, G1 ¹ / ₂ " galvanized steel pipe material and powder coated surface	Set	D8725
Lamp pole of flange type 	Accessories for platform type lamp, G1 ¹ / ₂ " galvanized steel pipe material and powder coated surface	Set	D8726

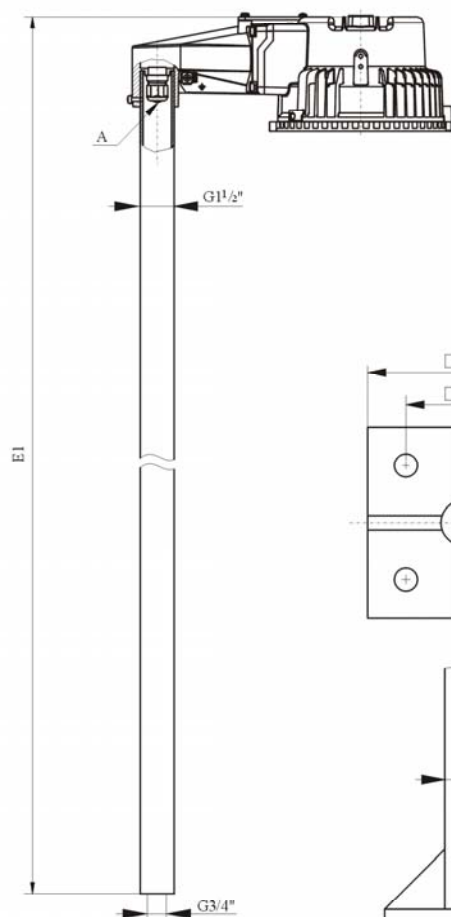
- Outline and installation dimensions:



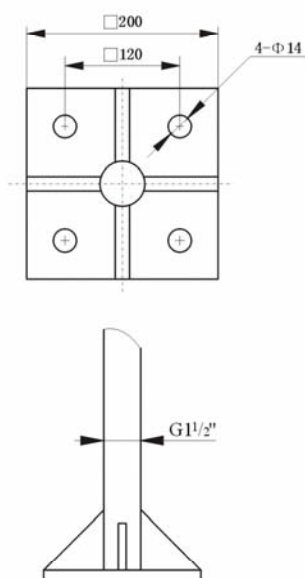
- Outline and installation dimensions:



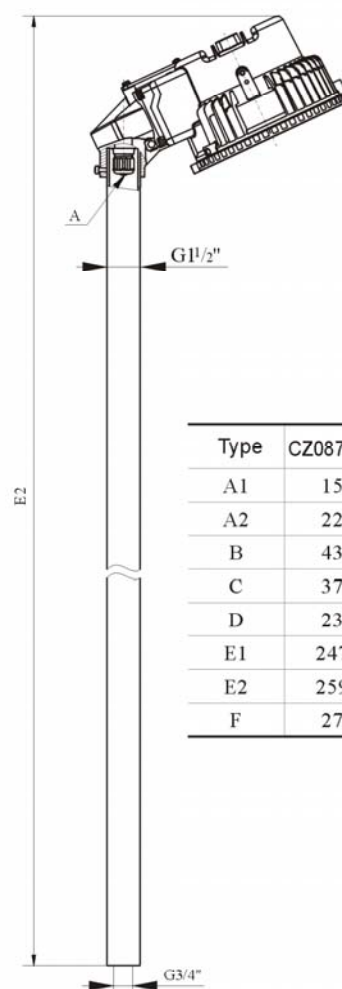
A represents a built-in moulded plastic
M25 cable gland.



C — Lamp cap mounted in the
angle of 90° Fence type



Flange type



D — Lamp cap mounted in the
angle of 25° Fence type

Type	CZ0873/1□	CZ0874/1□
A1	156	160
A2	225	253
B	435	485
C	370	415
D	230	280
E1	2470	2470
E2	2590	2620
F	272	377



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 CQM 13.0025X

Issue No: 0

Certificate history:

[Issue No. 0 \(2013-08-16\)](#)

Status: **Current**

Page 1 of 3

Date of Issue: **2013-08-16**

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

Equipment: **Explosion-proof light fittings CZ0871, 2,3 or 4/...**
Optional accessory:

Type of Protection: **Flameproof enclosure "d", Increased safety "e", Protection by enclosure "t"**

Marking: **Ex d eIICT3/T4/T5/T6 Gb, Ex tb IIIC T195°C/T130°C/T95°C/T80°C Db IP66**

*Approved for issue on behalf of the IECEx
Certification Body:*

Zhang Wei

Position:

President

*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](#).

Certificate issued by:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District,
Beijing City, Postal code: 100037
China





IECEx Certificate of Conformity

Certificate No: IECEx CQM 13.0025X

Issue No: 0

Date of Issue: 2013-08-16

Page 2 of 3

Manufacturer: **CZ Explosion-proof Electric Appliances Co., Ltd.**
No.1 Qixing Rd, Qixing Town, Nanhu District, Jiaxing, Zhejiang, 314002
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 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
IEC 60079-7 : 2006-07 Edition:4	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:

[CN/CQM/ExTR13.0028/00](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/02](#)



IECEx Certificate of Conformity

Certificate No: IECEx CQM 13.0025X

Issue No: 0

Date of Issue: 2013-08-16

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description of equipment

1. This certificate covers the following types:

CZ0871/2□-□□W, CZ0872/2□-□□W, CZ0873/□□-□□W, CZ0874/□□-□□W.

2. Structure of production

The explosion-proof lights cast aluminum alloy the flameproof body and increased safety terminal box, transition nut with explosion-proof threaded connection between the two, the transition nut through connecting wires and the cast and seal. Explosion-proof lamp housing made of aluminum alloy die-casting molding, surface coating of pure epoxy resin powder; glass with tempered glass, with tight the Medallions glass collar card and adhesive as one of the composition of the glass package. Threaded flameproof joints between the glass kit and transition nut and light body. Junction box located in the side of the lamp body, built-in cage wiring terminals (Ex e IIC Gb), easy wiring, Cable entries and empty plug plug cable into the mouth of the junction box is equipped

3. Details of model, rating and Temperature Code see as in attachment.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Service ambient temperature: -20°C to +40°C /+55°C, -40°C to +40°C /+55°C
2. When application, the earthing is well.
3. When assembly, operation and maintenance, the operator should follow the requirements of IEC 60079-14:2007 Explosive atmospheres - Part 14: Electrical installations design, selection and erection, beside of the CZ087□ Series Explosion-proof light fittings Instruction.
4. Explosion-proof lights on a non-charged opening the lid and close the switch to turn lamps must cool for 15 minutes

Annex:

[Attachment to CoC.pdf](#)



Attachment to CoC

IECEx CQM 13.0025/00



Manufacturer: CZ Explosion-proof Electric Appliances Co., Ltd.

No.1 Qixing Rd, Qixing Town, Nanhu District, Jiaxing, Zhejiang

Electrical equipment: Explosion-proof light fittings

CZ0871/2□-□□W CZ0872/2□-□□W CZ0873 /2□-□□W

CZ0874 /2□-□□W CZ0873 /1-□□W CZ0874 /1□-□□W

General product information:

1. This report covers the following types:

CZ0871/2□-□□W, CZ0872/2□-□□W, CZ0873/□□-□□W, CZ0874/□□-□□W.

24V AC/DC, 110V AC, 220V AC, 100V~240V AC, 240V AC,

230 V AC, 240V AC, 220V~240V AC, 230V/240V AC, 220V/230V/240V AC

50Hz, 60Hz, 50/60Hz.

Modle and implication of product:

CZ 08 7 □ / □ □ - □ □ □

power

Light source code

Cap mounting form: B, C, D(CZ0871/CZ872 C、D No)

Shade structure: 1, 2 (CZ0871/CZ872 1 No)

Lighting specification code 1、2、3、4

The year number of product developed

The code of abbreviated name of manufacture

Light source code:

J-Metal halide lamps	N-High-pressure sodium lamps	G-High-pressure mercury lamps
QL-Induction lamps	B-Incandescent lamps	JN-Compact Fluorescent
LED-LED lamps	Z-Self-Ballasted mercury lamps	TD-LED warning light tower
JD-Warning lamps	ZDL-LED Aviation Obstruction Light	ZDB-Xenon strobe pulse aviation obstruction lights



Attachment to CoC

IECEx CQM 13.0025/00



2 Table for model, rating and temperature class

No.	Type of production	Rated voltage	Ambient temperature/ Temperature group	
			Ta≤40℃	Ta≤55℃
1	CZ0871/2B-JN45W	220~240V AC 50/60Hz	T6	/
2	CZ0871/2B-JN65W	220~240V AC 50/60Hz	T6	/
3	CZ0871/2B-QL50W	220~240V AC 50/60Hz	T6	T5
4	CZ0871/2B-QL85W	220~240V AC 50/60Hz	T6	T5
5	CZ0871/2B-B200W	220 AC 50Hz	T4	/
6	CZ0871/2B-B300W	220 AC 50Hz	T4	/
7	CZ0871/2B-Z125W	220 AC 50Hz	T4	/
8	CZ0871/2B-Z160W	220 AC 50Hz	T4	/
9	CZ0871/2B-G50W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T4	T4
10	CZ0871/2B-G80W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T4	T4
11	CZ0871/2B-G125W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T4	T4
12	CZ0871/2B-J70W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T6	T5
13	CZ0871/2B-J100W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T5	T4
14	CZ0871/2B-J150W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T5	T4
15	CZ0871/2B-N70W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T6	T5
16	CZ0871/2B-N100W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T6	T5
17	CZ0872/2B-QL135W	220~240V AC 50/60Hz	T5	T4
18	CZ0872/2B-QL165W	220~240V AC 50/60Hz	T5	T4
19	CZ0872/2B-B500W	220V AC 50Hz	T4	/
20	CZ0872/2B-Z500W	220V AC 50Hz	T3	/
21	CZ0872/2B-G400W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T3	/
22	CZ0872/2B-J250W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T5	T4
23	CZ0872/2B-J400W	220V AC, 230V AC, 240V AC, 230V/240 AC,220V/230V/240V AC 50Hz	T4	/
24	CZ0872/2B-N150W	220V AC, 230V AC, 240V AC, 230V/240 AC, 20V/230V/240V AC 50Hz	T4	T4
25	CZ0872/2B-N250W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T5	T4
26	CZ0872/2B-N400W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T4	/
27	CZ0873/1B(C,D)-LED30W	100V~240V AC 50/60Hz	T6	T6
28	CZ0873/2 B(C,D)-ZDB	24V AC/DC, 110V AC, 220V AC, 230V AC, 240V AC 50/60Hz Max10W	T6	T6
29	CZ0873/2 B(C,D)-ZDL	24V AC/DC, 110V AC, 220V AC, 230V AC, 240V AC 50/60Hz Max10W	T6	T6
30	CZ0873/2 B(C,D)-JD	24V AC/DC, 110V AC, 220V AC, 230V AC, 240V AC 50/60Hz Max10W	T6	T6
31	CZ0873/2 B(C,D)-TD	24V AC/DC, 110V AC, 220V AC, 230V AC, 240V AC 50/60Hz Max10W	T6	T6
32	CZ0873/2 B(C,D)-LED25W	100V~240V AC 50/60Hz	T6	T6
33	CZ0873 /2 B(C,D)-QL50W	220~240V AC 50/60Hz	T6	T6
34	CZ0873 /2 B(C,D)-JN45W	220~240V AC 50/60Hz	T6	/
35	CZ0873 /2 B(C,D)-JN65W	220~240V AC 50/60Hz	T6	/



Attachment to CoC

IECEX CQM 13.0025/00



36	CZ0873 /2 B(C,D)- J70W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T6	T5
37	CZ0873 /2 B(C,D)- J100W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T4	T4
38	CZ0873 /2 B(C,D)- J150W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T4	T4
39	CZ0873 /2 B(C,D)- N70W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T5	T4
40	CZ0873 /2 B(C,D)- N100W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T5	T4
41	CZ0874/1 B(C,D)-LED45W	100V~240V AC 50/60Hz	T6	T6
42	CZ0874/1 B(C,D)-LED60W	100V~240V AC 50/60Hz	T6	T6
43	CZ0874 /2 B(C,D)- J250W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T4	T4
44	CZ0874 /2 B(C,D)- N150W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T4	T4
45	CZ0874 /2 B(C,D)- N250W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 50Hz	T4	T4
46	CZ0871/2B-G50W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T4	T4
47	CZ0871/2B-G80W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T4	T4
48	CZ0871/2B-G125W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T4	T4
49	CZ0871/2B-J70W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T6	T5
50	CZ0871/2B-J100W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T4	T4
51	CZ0871/2B-J150W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T4	T4
52	CZ0871/2B-N70W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T5	T4
53	CZ0871/2B-N100W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T5	T4
54	CZ0872/2B-G250W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T3	/
55	CZ0872/2B-J250W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T4	T4
56	CZ0872/2B-N150W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T4	T4
57	CZ0872/2B-N250W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T5	T4
58	CZ0872/2B-N400W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T4	/
59	CZ0873 /2 B(C,D)- J70W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T6	T5
60	CZ0873 /2 B(C,D)- J100W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T4	T4
61	CZ0873 /2 B(C,D)- J150W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T4	T4
62	CZ0873 /2 B(C,D)- N70W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T5	T4
63	CZ0873 /2 B(C,D)- N100W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T5	T4
64	CZ0874 /2 B(C,D)- J250W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T4	T4
65	CZ0874 /2 B(C,D)- N150W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T4	T4
66	CZ0874 /2 B(C,D)- N250W	220V AC, 230V AC, 240V AC, 230V/240 AC, 220V/230V/240V AC 60Hz	T4	T4