(1) EC TYPE-EXAMINATION CERTIFICATE

(2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 94/9/EC**

(3) EC Type-Examination Certificate Number

TÜV 14 ATEX 7580 X

(4) **Equipment:** **Explosion-proof light fittings**
CZ0871/2□-□□W CZ0872/2□-□□W
CZ0873/2□-□□W CZ0874/2□-□□W
CZ0873/1□-□□W CZ0874/1□-□□W

(5) **Manufacturer:** **CZ Explosion-proof Electric Appliances Co., Ltd.**

(6) **Address:** **No.1 Qixing Rd. Qixing Town, Nanhu District, Jiaxing, Zhejiang China**

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The TÜV Rheinland Zertifizierungsstelle for ex-protected products of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive. The examination and test results are recorded in the confidential report 557/Ex580.00/14

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0: 2012 **EN 60079-1:2007** **EN 60079-7:2007** **EN 60079-31:2009**

except the requirements, which are listed under item (18).

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type-Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

(12) The marking of the equipment shall include the following:

II 2 GD Ex d e IIC Tx Gb,
Ex tb IIIC Tx Db (Tx see table below)

TÜV Rheinland ExNB for explosion protected equipment

Cologne, 2014-10-22

Dipl.-Ing. Klauspeter Graffi

This EC-Type-Examination Certificate without signature and stamp shall not be valid.
This EC-Type-Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Notified Body of TÜV Rheinland Industrie Service GmbH, Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Annex to

(14) # EC-Type Examination Certificate
TÜV 14 ATEX 7580 X

(15) **Description of equipment**

15.1 Equipment and type:

Explosion-proof light fittings

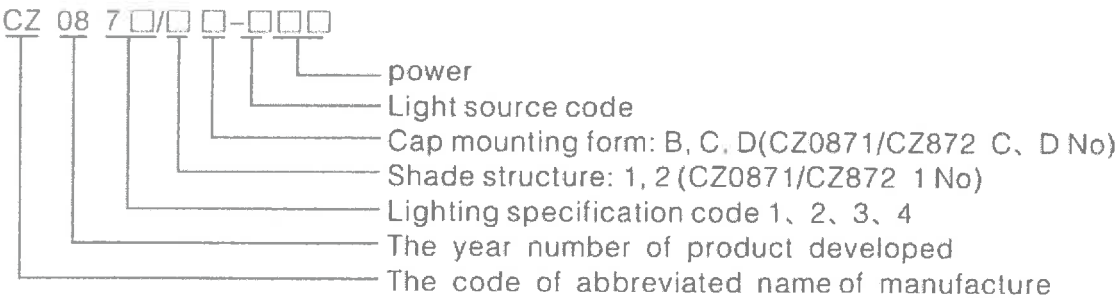
Type: CZ0871/2□-□□W, CZ0872/2□-□□W, CZ0873/2□-□□W, CZ0874/2□-□□W, CZ0873/1□-□□W, CZ0874/1□-□□W

15.2 Description

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:



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

For more details of the different type of Explosion-proof light fittings, see the table below:

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、220V/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 AC50/60Hz	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	/
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 AC50Hz	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 AC60Hz	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

Note: 1) The sample types of temperature test: see clause 26.5.1 of EN60079-0:2012.
2) The sample types of other tests are: CZ0871/2B-B200W, CZ0872/2B-B500W, CZ0873/2B-JN45W, CZ0874/2B-N150W, CZ0873/1B-LED30W, CZ0874/1B-LED45W.

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 II C Gb), easy wiring. Cable entries and empty plug cable into the mouth of the junction box is equipped with the ATEX and IECEx certificate, used in conjunction with proof mark of Ⓔx II 2GD Ex e□C Gb IP66/ Ex tb □C Db IP66.

Exposed fasteners made of 304 stainless steel. Explosion-proof lights on a non-charged opening the lid and close the switch to turn lamps must cool for 15 minutes! "Logo, glass kits and light body and junction box cover and junction box body with seals, sealing ring made of silicone rubber SR, seals and glass kit and junction box cover with adhesive to prevent off on their own to ensure the protection class IP66. For the details of certified Ex component, refer to the table below:

Production	Marking	Certificate No.
The miniature spring MSDB 2.5 terminal	Ex e II , Ex e I	IECEx PTB 08.0048U PTB 08 ATEX 1075 U

3. Explosion-proof light fittings Photos:

CZ0871/2□-□□W

CZ0872/2□-□□W

CZ0873/2□-□□W

CZ0874/2□-□□W

CZ0873/1□-□□W

CZ0874/1□-□□W

15.3 Technical Data

Rated voltage	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
Ambient temperature range	-20℃ ≤Ta≤ +40℃/55℃ -40℃ ≤Ta≤ +40℃/55℃

List of certified equipment and components

Equipment/ component	Type	Ex-marking	No. of certificate	IP code
The miniature spring MSDB 2.5 terminal	Ex e	Ex e Ⅱ , Ex e I	IECEx PTB 08.0048U PTB 08 ATEX 1075 U	

(16) **Test-Report No.** 557/Ex580.00/14

Parts of the device, which already fulfil the requirements for the category, were not approved and assessed by TÜV Rheinland Industrie Service.

The applicability and assembly of mechanical and electrical parts and components were assessed and approved by TÜV Rheinland Industrie Service with respect to the requirements of explosion protection.

(17) **Special Conditions for safe use**

1. Service ambient temperature: -20°C to +40°C /+55°C, -40°C to +40°C /+55°C
2. The earthing connected to the equipment shall be verified after installation to make sure it is proper connected.
3. When assembly, operation and maintenance, the operator should follow the requirements of EN 60079-14 Explosive atmospheres - Part 14: Electrical installations design, selection and erection, beside of the CZ087□ Series Explosion-proof light fittings Instruction.
4. Repair and overhaul shall comply with EN 60079-19.
5. These series products shall be used with certified ATEX cable entries and stopping plug, the cable entries and stopping plug Ex-mark is Ⓔx II 2GD Ex e IIC Gb IP66, Ex tb III C Db IP66.
6. Do not open when energized! Must cool down for 15 minutes before open the light fittings!

(18) **Basic Safety and Health Requirements**

Covered by afore mentioned standard

TÜV Rheinland ExNB für explosion protected equipment — Cologne, 2014-10-22

Dipl.-Ing. Klauspeter Graffi