



EU Type Examination Certificate CML 16ATEX3377X Issue 2

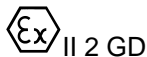
- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **CZ0264 Explosion-Proof (Emergency) LED Light Fitting / Exit Sign Lighting Fittings**
- 3 Manufacturer **CZ Electric Co., Ltd.**
- 4 Address **No. 1 Qixing Road, Qixing Town, Nanhu District, Jiaxing, Zhejiang, 314002, China**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN 60079-0:2012+A11:2013	EN 60079-1:2014	EN 60079-5:2015
EN 60079-7:2015	EN 60079-11:2012	EN 60079-18:2009
EN 60079-28:2015	EN 60079-31:2014	

- 10 The equipment shall be marked with the following:



II 2 GD

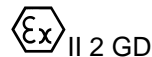
Ex eb ib op is q IIC T4 Gb

Ex tb IIIC T80°C Db

Ta: -20°C to +55°C

¹ With switch fitted

² With fuse fitted



II 2 GD

Ex db eb ib op is q IIC T4 Gb¹

Ex eb ib mb op is q IIC T4 Gb²

Ex db eb ib mb op is q IIC T4 Gb³

³ With switch and fuse fitted



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11 Description

The CZ0264 Explosion-Proof LED Light Fittings are designed for fixed location hazardous area and rated at 100V to 250V AC. It is available with a clear plastic lens or with additional emergency sign. It is installed to run from cabled power supply but also includes a battery to allow operation in emergency situations where power is not operational.

The design briefly comprises a plastic IP 66 rated enclosure (with optional emergency exit sign graphics), 30 diode LED light module, power module/control gear, battery, cable glands and terminals. In addition to this standard light fitting it may also be fitted with a separately certified Ex mb fuse (IECEX CQM 11.0009U) and/or Ex d switch (IECEX CQM 15.0034U).

The enclosure is made up of a transparent plastic cover and white plastic base. A silicone foam seal is located in a groove in the cover which is secured onto the base by a hinge at one end and a tool secured lock at the other.

Fixed inside the base is the power module, rechargeable battery pack, terminal block and optional fuse and/or switch. Fixed inside the lid is the LED board, indication switch (3 coloured LEDs) and optional sign.

Variation 1

This variation introduced the following modification:

- i. The certificate was re-issued in the correct EU Type Examination Certificate format. No associated report was required for this change.

Variation 2

This variation introduced the following modifications:

- i. Change of applicant's and manufacturer's company name from CZ Explosion-proof Electric Appliances Co., Ltd. to CZ Electric Co., Ltd.
- ii. Correction of typographical errors.
- iii. Transfer of certificate from CML UK to CML BV.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	25 Nov 2016	R972A & R972B	Issue of Prime Certificate
1	29 Sep 2017	No report issued	Introduction of Variation 1
2	04 Dec 2019	R12865A/00	Introduction of Variation 2

Note: Drawings that describe the equipment or component are listed in the Annex.



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13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product 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.
- ii. All equipment and separate circuits must satisfy the requirements of IEC 60079-7 CL 7.1 Dielectric tests (Routine) in accordance with IEC 60079-7 CL 6.1. Dielectric strength,
 - At a test voltage of 1,500 V r.m.s. + 5%, -0 % where the working voltage exceeds 90 V Peak;
 - At a test voltage of 500 V r.m.s. + 5%, -0 % where the working voltage does not exceed 90 V; PeakAnd maintained for at least 1 min without dielectric breakdown occurring. Alternatively, a test shall be carried out at 1,2 times the test voltage, but maintained for at least 100 ms. without dielectric breakdown occurring.
- iii. The insulating properties of each lot of filling material must satisfy the requirements of IEC 60079-5 CL 5.22 Dielectric Strength Test of the Filling Material, prior to filling process.
- iv. All transformer must satisfy the requirements of IEC 60079-11 CL 11.2 Routine Tests for Infallible Transformers where $U = 250$ V. The test voltage shall be applied for a period of at least 60 s. Alternatively, the test may be carried out at 1,2 times the test voltage, but with reduced duration of at least 1 s. The applied voltage shall remain constant during the test. The current flowing during the test shall not increase above that which is expected from the design of the circuit and shall not exceed 5 mA r.m.s. at any time. During these tests, there shall be no breakdown of the insulation between windings or between any winding and the core or the screen.
- v. Cable gland and stopping plugs when supplied must be suitably rated and certified for use in Group II (Gas) and Group III (Dust) Explosive atmospheres in accordance with the equipment markings.

14 Special Conditions for Safe Use (Conditions of Certification)

The following conditions relate to safe installation and/or use of the equipment.

- i. Static hazard – Clean only with a damp cloth.
- ii. Do not open when energised.
- iii. Do not discharge or replace the battery in an explosive environment.

Certificate Annex

Certificate Number CML 16ATEX3377X
Equipment CZ0264 Explosion-Proof LED Light Fitting
Manufacturer CZ Electric Co., Ltd.



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
CZ0264/LED-MX	1 to 2	-	25 Nov 2016	Drawing List
2CZ026LED.000.015-020	1 to 2	AA	25 Nov 2016	Structural Diagram LED Lighting/LED EXIT Sign Lighting Fitting
2CZ026LED.000.021	1 of 1	AA	25 Nov 2016	Wiring Diagram
5CZ026LED.000.005-006	1 of 1	AA	25 Nov 2016	3W Explosion-Proof Emergency Power Module
8CZ0264LED.022.000	1 of 1	-	25 Nov 2016	Emergency Power Supply Module PCB Layout
5CZ0264LED.000.009-010	1 of 1	AA	25 Nov 2016	Combination Parts 3W Explosion-proof Emergency Power Circuit Board Combination
5CZ0264LED.000.012	1 of 1	-	25 Nov 2016	Structural Diagram LED Exit Sign Light Fitting Enclosure
8CZ0264LED.011.000	1 of 1	AA	25 Nov 2016	Mounting Device of Signal Lamp Module
8CZ0264LED.015.000	1 of 1	-	25 Nov 2016	3M-7875 Nameplate
8CZ0264LED.021.000	1 of 1	-	25 Nov 2016	Electrical Schematic Diagram
8CZ0264LED.023.000	1 of 1	-	25 Nov 2016	Light Source Module – PCB Layout
8CZ0261.001.000	1 of 1	AA	25 Nov 2016	8W Right Bracket
8CZ0261.002.000	1 of 1	AA	25 Nov 2016	8W Terminal Brass Plate
8CZ0261.020.000	1 of 1	AA	25 Nov 2016	8W Terminal Cover
8CZ0261.022.000	1 of 1	AA	25 Nov 2016	M4x10 Bolt with Flat Washer and Spring Washer
8CZ0818.002.000	1 of 1	AB	25 Nov 2016	08 Ballast Cover
8CZ0818.004.000	1 of 1	AB	25 Nov 2016	08 Enclosure of Invertor
2CZ0819.010.000	1 of 1	AA	25 Nov 2016	CZ0819/1.0Ah 6V Explosion-proof Battery Module
2CZ0818.004.001-002	1 of 1	AB	25 Nov 2016	CZ0818/_x_W-1 YJ Explosion-proof Invertor Module
2CZ0802.000.000	1 of 1	AB	25 Nov 2016	CZ0802/1 Explosio+++n-proof Emergency Indicator Module
8CZ0264LED.016.000	1 of 1	AA	25 Nov 2016	Explosion-proof Emergency Drive Module Nameplate
Process Regulations of Powder Filling	1 to 2	-	25 Nov 2016	Quartz filling process
5KRHT17/50 1.0 Ah	1 of 1	-	25 Nov 2016	5KRHT17/50 1.0 Ah

Certificate Annex

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Drawing No	Sheets	Rev	Approved date	Title
				(Construction of Battery Pack)
2994-CZ0264	1 of 1	-	25 Nov 2016	Operation Regulation of Power Frequency Voltage Withstand CZ0264 Series Ex (Emergency) LED (Sign) Light Fitting
Failure analysis diagram	1 of 1	-	25 Nov 2016	3 W Explosionproof emergency power module Failure analysis diagram

Issue 1

None.

Issue 2

Drawing No	Sheets	Rev	Approved date	Title
8CZ0264LED.015.000	1 of 1	AB	04 Dec 2019	Nameplate