



EU Type Examination Certificate CML 16ATEX1342X Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **CZ086, CZ136 and CZ0264 Series Explosion-Proof (Emergency) LED Linear Light Fittings**
- 3 Manufacturer **CZ Explosion-proof Electric Appliances Co., Ltd.**
- 4 Address **No. 1 Qixing Rd, Qixing
Town, Nanghu District,
Jiaxing, Zhejiang, P.R.
China**

- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK, Notified Body Number 2503, 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

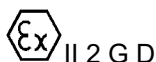
EN 60079-18:2014

EN 60079-28:2015

EN 60079-31:2014

*When the distance switch is not fitted, the equipment is not considered to be flameproof.

- 10 The equipment shall be marked with the following:



Ex db eb mb op is q IIC T6/T5/T4 Gb

Ex eb mb op is q IIC T6/T5/T4 Gb

Ex tb op is IIIC T80°C Db

Ta = -25°C ≤ Ta ≤ +40°C/+50°C/+55°C

Refer to description for complete marking.



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11 Description

The CZ086 Series, CZ136 Series and CZ0264 Series Explosion-proof (Emergency) LED Linear Light Fittings are designed for fixed location hazardous areas and rated at 100V to 250V AC. 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 Module CZ1618/11-LED__W_, the Explosion-proof LED Power Module CZ1618/57-_x LED__W_, and the Explosion-proof LED Inverter Module CZ1618/58-_x LED__W_ which are approved under CML ATEX 3341U and IECEx CML 16.0115U.

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

The models are marked as below:

CZ086 Series and CZ136 Series

Ex eb mb op is q IIC T5/T4 Gb	(standard without isolation switch)
Ex db eb mb op is q IIC T5/T4 Gb	(standard with isolation switch)
Ex eb mb op is q IIC T4 Gb	(emergency without isolation switch)
Ex db eb mb op is q IIC T4 Gb	(emergency with isolation switch)
Ex tb op is IIIC T80°C Db	

The T Class for the standard versions is dependant on the ambient:

Standard versions:

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

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

Emergency versions

T4 at $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+50^{\circ}\text{C}$ (CZ0865)

T4 at $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+55^{\circ}\text{C}$ (CZ0866 and CZ136)

CZ1363 Series

Ex eb mb op is q IIC T4 Gb

Ex tb op is IIIC T80°C Db

All versions:

T4 at $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$



CZ0264 Series

Ex db eb mb op is q IIC T6/T5 Gb (with isolation switch)
Ex eb mb op is qb IIC T6/T5 Gb (without isolation switch)
Ex tb op is IIIC T80°C Db

The T Class/ maximum surface temperature is dependant on the ambient:

T6 at $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

T5 at $-25^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

Variation 1

Variation 1 introduces the following changes:

- i. The introduction of two additional models to the CZ136 range.
- ii. The introduction of the CZ0264 range.
- iii. Clarification of the marking options available to the ranges covered.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 Mar 2017	R1554A/00	Issue of prime certificate.
1	27 Feb 2018	R2081A/00	Introduction of Variation 1

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 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 component 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 EN 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.

14 Special Conditions for Safe Use (Conditions of Certification)

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 and CZ0264 Luminaire Ranges, the equipment in these ranges shall only be cleaned with a damp cloth.
- ii. The CZ1618 LED, Power, Inverter and fuse modules fitted inside the luminaire enclosure are supplied permanently sealed and therefore no attempt must be made to open or repair them.

Certificate Annex



Certificate Number CML 16ATEX1342X

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

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

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

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
2CZ0865LED.001.000	1 of 1	AA	06 Mar 2017	CZ0865/1 x LED 30W Structure Diagram
2CZ0865LED.002.000	1 of 1	AA	06 Mar 2017	CZ0865/1 x LED 30W-YJ Structure Diagram
2CZ0866LED.001.000	1 of 1	AA	06 Mar 2017	CZ0866/2 x LED 30W Structure Diagram
2CZ0866LED.002.000	1 of 1	AA	06 Mar 2017	CZ0866/2 x LED 30W-YJ Structure Diagram
2CZ1361LED.001.000	1 of 1	AA	06 Mar 2017	CZ1361/-1 x LED 30W Structure Diagram
2CZ1361LED.002.000	1 of 1	AA	06 Mar 2017	CZ1361/-1 x LED 30W-YJ Structure Diagram
2CZ1362LED.001.000	1 of 1	AA	06 Mar 2017	CZ1361/-2 x LED 30W Structure Diagram
2CZ1362LED.002.000	1 of 1	AA	06 Mar 2017	CZ1361/-2 x LED 30W-YJ Structure Diagram
8CZ0865LED.000.001	1 of 1	AA	06 Mar 2017	CZ0865/LED Nameplate 3M-7875
8CZ0866LED.000.001	1 of 1	AA	06 Mar 2017	CZ0866/LED Nameplate 3M-7875
8CZ1361LED.000.001	1 of 1	AA	06 Mar 2017	CZ1361/LED Nameplate 3M-7875
8CZ1362LED.000.001	1 of 1	AA	06 Mar 2017	CZ1362/LED Nameplate 3M-7875

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Drawing No	Sheets	Rev	Approved date	Title
2CZ0264LED.000.026~027	1 to 2	AA	27 Feb 2018	CZ0264/31-LED16W Structure Diagram
2CZ0865LED.001.000	1 of 1	AB	27 Feb 2018	CZ0865/1 x LED 30W Structure Diagram
2CZ0865LED.002.000	1 of 1	AB	27 Feb 2018	CZ0865/1 x LED 30W-YJ Structure Diagram
2CZ0866LED.001.000	1 of 1	AB	27 Feb 2018	CZ0866/2 x LED 30W Structure Diagram
2CZ0866LED.002.000	1 of 1	AB	27 Feb 2018	CZ0866/2 x LED 30W-YJ Structure Diagram

Certificate Annex



Certificate Number CML 16ATEX1342X

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

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

Drawing No	Sheets	Rev	Approved date	Title
2CZ1361LED.001.000	1 of 1	AB	27 Feb 2018	CZ1361/1 x LED 30W Structure Diagram
2CZ1361LED.002.000	1 of 1	AB	27 Feb 2018	CZ1361/1 x LED 30W-YJ Structure Diagram
2CZ1362LED.001.000	1 of 1	AB	27 Feb 2018	CZ1361/2 x LED 30W Structure Diagram
2CZ1362LED.002.000	1 of 1	AB	27 Feb 2018	CZ1361/2 x LED 30W-YJ Structure Diagram
2CZ1363LED.000.001~006	1 to 2	AA	27 Feb 2018	CZ1363/2 x LED 30W Structure Diagram
2CZ1363LED.000.007~012	1 to 2	AA	27 Feb 2018	CZ1363/2 x LED 30W Structure Diagram
2CZ0819.011.000	1 of 1	AA	27 Feb 2018	CZ0819/1.0Ah 7.2 V Structure Diagram
5CZ0264LED.000.015	1 of 1	AA	27 Feb 2018	CZ0264/31 Structure Diagram
5CZ0865LED.001.000	1 of 1	AB	27 Feb 2018	CZ0865 Structure Diagram
5CZ0866LED.001.000	1 of 1	AB	27 Feb 2018	CZ0866 Structure Diagram
5CZ1363LED.000.011~013	1 of 1	AA	27 Feb 2018	CZ1363/3 Structure Diagram
5CZ1363LED.000.014~016	1 of 1	AA	27 Feb 2018	CZ1363/4 Structure Diagram
8CZ0264LED.043.000	1 of 1	AA	27 Feb 2018	Nameplate
8CZ0865LED.000.001	1 of 1	AB	27 Feb 2018	CZ0865/LED Nameplate
8CZ0866LED.000.001	1 of 1	AB	27 Feb 2018	CZ0866/LED Nameplate
8CZ1361LED.000.001	1 of 1	AB	27 Feb 2018	CZ1361/LED Nameplate
8CZ1362LED.000.001	1 of 1	AB	27 Feb 2018	CZ1362/LED Nameplate
8CZ1363LED.000.033	1 of 1	AA	27 Feb 2018	CZ1363/3LED Nameplate
8CZ1363LED.000.034	1 of 1	AA	27 Feb 2018	CZ1363/4LED Nameplate

EU-Type Examination Certificate

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] EU-Type Examination Certificate Number: Presafe 16 ATEX 8178X Issue 0
- [4] Product: Full plastic explosion-proof (emergency) fluorescent light fittings Type CZ0865/6...
- [5] Manufacturer: CZ EXPLOSION-PROOF ELECTRIC APPLIANCES Co., LTD.
- [6] Address: No. 1 Qixing Rd, Qixing Town, Nanhu District, Jiaxing City, Zhejiang Province, Postal code: 314002 China
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV GL Nemko Presafe AS, notified body number 2460, 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 product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential reports listed in section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012/A11:2013, EN 60079-1:2014, EN 60079-5:2015, EN 60079-7:2007, EN 60079-18:2015 and EN 60079-31:2014.
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the product shall include the following:



II 2 G Ex db e q IIC T4 Gb (without emergency function or fuse) or
Ex db e mb q IIC T4 Gb (with emergency function or fuse)



II 2 D Ex tb IIIC T83°C Db (Ta≤+40 °C) or Ex tb IIIC T98°C Db (Ta≤+55 °C)

Asle Kaastad
For DNV GL Nemko Presafe AS

The Certificate has been digitally signed.
See www.presafe.com/digital_signatures for more info



Date of issue: 2017-07-25

This certificate replaces
previous certificate issued
by DNV.

This certificate may only be reproduced in its entirety and without any change, schedule included.

Electrical Data

Rated voltage: 110~240 V ($\pm 10\%$) a.c., 50/60 Hz.

Tube power without emergency function:

1x14 W, 1 x 18W, 1x28W, 1 x 36W, 2 x 14W, 2 x 18W, 2 x 28W, 2 x 36W.

Tube power with emergency function:

1x14 W, 1x18 W, 1x28 W, 1x36 W.

Degrees of protection (IP Code)

IP66

Ambient temperature:

-25°C to +40°C or -25°C to +55°C

Routine tests

- A dielectric strength test shall be carried out at 1500 V a.c. for at least 1 min. according to requirements of clause 7.1 (6.1) of EN 60079-7:2007.

[16] **Report No.:** 2010-3464

Project No.: PRJC-237862-2010-PRC-CHN

[17] Specific Conditions of Use

1. The enclosure is supplied with plain holes for cable entry devices (size M25). Before application, separate certified Ex eb IIC Gb or/and Ex tb IIIC Db IP66 cable gland or blanking element in accordance with EN 60079-0:2012, EN 60079-7:2015 and EN 60079-31:2014 should be incorporated.
2. Do not open when energized.
3. Electrostatic hazard due to insulating plastic enclosure. Cleaning of enclosure only with damp cloth.
4. Do not replace the battery in the explosive gas atmosphere but in safe area.

[18] Essential Health and Safety Requirements

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9.

[19] Drawings and documents

Number	Title	Rev.	Date
2CZ0865.001.000	CZ0865/2x14W Explosion-proof fluorescent light fittings	AC	2014.8.11
2CZ0865.002.000	CZ0865/2x18W Explosion-proof fluorescent light fittings	AC	2014.8.11
2CZ0865.003.000	CZ0865/2x14W YJ Explosion-proof emergency fluorescent light fittings	AC	2014.8.11

EU-Type Examination Certificate

Presafe 16 ATEX 8178X, Issue 0

2CZ0865.004.000	CZ0865/2x18W YJ Explosion-proof emergency fluorescent light fittings	AC	2014.8.11
2CZ0865.005.000	CZ0865 Series circuit diagram	AB	2014.8.11
2CZ0865.006.000	CZ0865/□×□W(YJ)-PM Explosion-proof (emergency) fluorescent light fittings	AA	2014.8.11
2CZ0866.001.000	CZ0866/2x28W Explosion-proof fluorescent light fittings	AC	2014.8.11
2CZ0866.002.000	CZ0866/2x36W Explosion-proof fluorescent light fittings	AC	2014.8.11
2CZ0866.003.000	CZ0866/2x28W YJ Explosion-proof emergency fluorescent light fittings	AC	2014.8.11
2CZ0866.004.000	CZ0866/2x36W YJ Explosion-proof emergency fluorescent light fittings	AC	2014.8.11
2CZ0866.005.000	CZ0866 Series circuit diagram	AB	2014.8.11
2CZ0866.006.000	CZ0866/□×□W(YJ)-PM Explosion-proof (emergency) fluorescent light fittings	AA	2014.8.11
2CZ0802.000.000	CZ0802/1 Explosion-proof emergency Indicator module	AB	2014.8.11
2CZ0819.002~003.000	CZ0819 Explosion-proof battery module	AB	2014.8.11
2CZ0403.000.000	G13 Explosion-proof lampholder	AB	2014.8.11
2CZ0403.001.000	G5 Explosion-proof lampholder	AB	2014.8.11
5CZ0865.001.000	D8714/2xM25 Metal coupling nut copper plate	AA	2009.5.15
54017.005.001~002	305/□ Terminal	AB	2014.8.11
8CZ0865.001.000	CZ0865 Enclosure of fluorescent light fitting	AB	2014.8.11
8CZ0865.001.000.1	CZ0865/PM Enclosure of fluorescent light fitting	AA	2014.8.11
8CZ0865.007.000	CZ0865 Nameplate	AB	2014.8.11
8CZ0865.024.000	CZ0865/PM Nameplate	AA	2014.8.11
8CZ0866.001.000	CZ0866 Enclosure of fluorescent light fitting	AB	2014.8.11
8CZ0866.006.000	CZ0866/PM-2 Enclosure of fluorescent light fitting	AA	2014.8.11
8CZ0866.003.000	CZ0866 Nameplate	AB	2014.8.11
8CZ0866.007.000	CZ0866/PM Nameplate	AA	2014.8.11

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue (Replaces DNV 10 ATEX 83454)	2017-07-25	2010-3464, Rev. 03

END OF CERTIFICATE