

# DET NORSKE VERITAS

## EC-TYPE EXAMINATION CERTIFICATE

- [2] **EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DNV 10 ATEX 83454** **Rev. 1**
- [4] Equipment or Protective System: **Full plastic explosion-proof (emergency) fluorescent light fittings CZ0865/6...**
- [5] Applicant – Manufacturer or Authorized representative: **CZ EXPLOSION-PROOF ELECTRIC APPLIANCES Co., LTD**
- [6] Address: **No. 1 Qixing Rd, Qixing Town, Nanhu District, Jiaxing City, Zhejiang Province, Postal code: 314 002 China**
- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV, notified body number 0575 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential reports listed in section 14.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 60079-0: 2009, EN60079-1:2007, EN60079-5:2007, EN60079-7:2007, EN60079-18:2004, EN61241-0:2006 and EN61241-1:2004**
- [10] If the sign “X” is placed after the certificate number, it indicates that the equipment or protective system 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 construction of the specified equipment or protected system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.
- [12] The marking of the equipment or protective system shall include the following:



**II 2 GD Ex code, see schedule**

Høvik, 2011-04-13  
for Det Norske Veritas AS

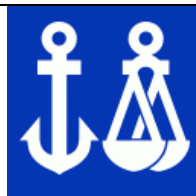
\_\_\_\_\_  
Marianne Spæren  
*Certification Manager*



Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

The digitally signed and electronically distributed document is the original and valid certificate. Ref.: [www.dnv.com/digitalsignatures](http://www.dnv.com/digitalsignatures)

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



[13]

## Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE No.: DNV 10 ATEX 83454

Rev. 1

### Certificate History

Revision	Description	Report no.	Issue date
-	Original certificate	2010-3464	2010-09-15
1	Changed electrical rating, added descriptive documents	2010-3464 r2	2011-04-13

### [15] Description of Equipment or Protective System

The enclosure of the full plastic explosion-proof (emergency) fluorescent light fitting consists of white plastic shell (SMC), plastic (PC) light-transmitting cover, EPDM sealing bar and the rotor shaft.

For non emergency fluorescentlight, there are inside it the bi-pin fluorescent tube, G5 or G13 lamp holder, metal reflector, terminals, encapsulation fuse module (user's option), flameproof enclosure distance switch module, powder-filling ballast module.

Besides the above there are the emergency indicator module, powder filling inverter module, and increased safety battery module for emergency fluorescent light. The fluorescent lamp uses the rotor shaft to drive the locking plate inside the lamp to open and close the lamp. The locking plate is interlocked with the distance switch inside the lamp to ensure the automatic deenergise of the lamp-holder when the lamp is open. When the lamp is open, all the live parts inside it are with warning labels. The lamp has interlocking drag hook to prevent the lamp becoming live due to fault operation of the operator.

### Type Identification

CZ	08	6	<input type="checkbox"/> /	<input type="checkbox"/> x	<input type="checkbox"/>	<input type="checkbox"/> -	<input type="checkbox"/> +	CZ0804/	<input type="checkbox"/>
The rated current of explosion proof fuse model: Up to 6,3A									
The model of explosion proof fuse module (no matching not noted)									
The code of emergency light fitting: YJ (the non-emergency light fitting not noted)									
Rated voltage code of specification: 1: AC110~240V (±10%) None: AC230V									
The power of single lamp tube: 14W, 18W, 28W, 36W									
The quantity of lamp tube: 1, 2									
The code of enclosure specification: 5, 6									
The code of product type									
The year number of product developed									
The code of abbreviated name of manufacturer									

### Ex code

Ex deq IIC T4 Gb / Ex tD A21 T80°C (without emergency function or fuse)

Ex dembq IIC T4 Gb / Ex tD A21 T80°C (with emergency function or fuse)

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Rev. 1

**Tamb**

-25°C ≤ Ta ≤ +40°C

**Electrical Data**

AC110~240V (±10%), 50/60Hz

AC230V, 50/60Hz

Tube power without emergency function: 1 x 14W, 1 x 18W, 1 x 28W, 1 x 36W, 2 x 14W, 2 x 18W, 2x 28W, 2 x 36W

Tube power with emergency function: 1 x 14W, 1 x 18W, 1 x 28W, 1 x 36W

**Degrees of protection (IP Code)**

IP66

[16] **Project No.:** PRJC-237862-2010-PRC-CHN

**Descriptive Documents**

Number	Title	Rev.	Date
2CZ0865.001.000	CZ0865/2x14W full plastic explosion-proof fluorescent light	-	2009-05-15
2CZ0865.002.000	CZ0865/2x18W full plastic explosion-proof fluorescent light	-	2009-05-15
2CZ0865.003.000	CZ0865/2x14W YJ full plastic explosion-proof emergency fluorescent light	-	2009-05-15
2CZ0865.004.000	CZ0865/2x18W YJ full plastic explosion-proof emergency fluorescent light	-	2009-05-15
2CZ0866.001.000	CZ0866/2x28W full plastic explosion-proof fluorescent light	-	2009-05-15
2CZ0866.002.000	CZ0866/2x36W full plastic explosion-proof fluorescent light	-	2009-05-15
2CZ0866.003.000	CZ0866/2x28W YJ full plastic explosion-proof fluorescent light	-	2009-05-15
2CZ0866.004.000	CZ0866/2x36W YJ full plastic explosion-proof fluorescent light	-	2009-05-15
2CZ0802.000.000	CZ0802/1 explosion-proof emergency Indicator module	-	2009-05-15
2CZ0819.002~003.000	CZ0819 series explosion proof batteryModule	-	2009-05-15
2CZ0403.000.000	G13 explosion-proof lamp holder	-	2009-05-15
2CZ0403.001.000	G5 explosion-proof lamp holder	-	2009-05-15
2CZ0804.001.000	2CZ0804/□□A Series explosion-proof fuse module	-	2009-05-15
2CZ0207.000.000	2CZ0207-1 explosion-proof distance switch module	-	2009-05-15
5CZ0865.001.000	D8714/2xM25 metal coupling nut cooper plate	-	2009-05-15
54017.005.001~002	305□ terminal	-	2009-05-15
8CZ0865.001.000	CZ0865 enclosure of fluorescent light fitting	-	2009-05-15
8CZ0865.007.000	CZ0865 nameplate	-	2009-05-15
8CZ0866.001.000	CZ0866 enclosure of fluorescent light fitting	-	2009-05-15
8CZ0866.003.000	CZ0866 nameplate	-	2009-05-15
8CZ0865.008.000	CZ0865 nameplate	-	2010-05-16
8CZ0866.004.000	CZ0866 nameplate	-	2010-05-16

[17] **Special Conditions for Safe Use**

None

[18] **Essential Health and Safety Requirements**

See part 9 of this certificate

END OF CERTIFICATE

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.