



DET NORSKE VERITAS

EC-TYPE EXAMINATION CERTIFICATE

- [2] COMPONENT INTENDED FOR USE IN EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC
- [3] EC-Type Examination Certificate Number: **DNV 12 ATEX 11183U**
- [4] Component: **Explosion-Proof Signal Lamp with Button Module CZ0212 Series**
- [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 component 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 component 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, EN 60079-1:2007 and EN60079-7:2007
- [10] The sign 'U' placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacturer and supply of this component.
- [12] The marking of the equipment or protective system shall include the following:

 II 2 G Ex de IIC Gb -55 °C ≤ Ta ≤ 60 °C

Høvik, 2012-05-10
for Det Norske Veritas AS

for 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

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 12 ATEX 11183U

Certificate History

Revision	Description	Report no.	Issue date
-	Original certificate	2012-3207	2012-05-10

[15] **Description of component**

The CZ0212 series explosion-proof signal lamp with button modules is Ex component. The product is consisted a cover, a shell which are made of plastic material and Ex e terminal. The cover and shell are consisted of flameproof enclosure with cemented methods; the volume of flameproof enclosure is less than 10cm³.

Type identification

CZ	02	12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Colour of Signal lamp R:Red B: Blue Y:Yellow W:White G: Green
						Contact code of button 3:NC 4:NO
						Mounting type: 6:Board front rail type 7:Board back type A7:Board back type and not installed protection cover locking head
						Design Number
						Year number of product development
						The abbreviation code of manufacturer name

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Ambient Temperature:

-55 °C ≤ Ta ≤ 60 °C

Parameters relating to the safety

Signal lamp rated service voltage : AC/DC 12~250V

Button rated voltage/rated current: AC 250V/10A DC 24V/1A

Degree of protection (IP Code)

IP20

[16] **Project No.:** PRJC-356426-2011-PRC-CHN

Descriptive Documents

Number	Title	Rev.	Date
5CZ0212.000.001~002	CZ0212-6□□ Explosion-proof Signal Lamp with Button module	-	2011.01.18
5CZ0212.000.003~004	CZ0212-7□□ Explosion-proof Signal Lamp with Button module	-	2011.01.18
5CZ0212.000.005~006	CZ0212-A7□□ Explosion-proof Signal Lamp with Button module	-	2011.01.18
8CZ0202.007.003~004	Protection cover(Board front type)	-	2011.01.18
8CZ0202.012.007~008	Signal lamp with 1NO(1NC) protection cover	-	2011.01.18
8CZ0212.007.000	KD00.007 Shell	-	2011.01.18
8CZ0212.009.000	KD00.007 Shell (Board back type)	-	2011.01.18
8CZ0212.019.000	Lamp cover	-	2011.01.18
8CZ0212.021.000	Flameproof shaft	-	2011.01.18

Routine test

-Dielectric strength should be conducted according to clause 7.1 of EN60079-7:2007

[17] **Schedule of limitations**

-Repair of the flameproof joint must be made in compliance with the structural specification provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN/IEC 60079-1.

-The CZ0212 series explosion-proof signal lamp with button module shall be installed inside a suitable certified enclosure.

-The service temperature specified by the manufacturer is from -55 °C to 85 °C

[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.