



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-2008-OSL-ATEX-21657U** Rev. 3
- [4] Component: **Explosion Proof Switch Module CZ0201 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: 2012, 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 -40°C ≤ Ta ≤ +55°C**

Høvik, 2014-08-19
for Det Norske Veritas AS

Bjørn Spongsveen
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-2008-OSL-ATEX-21657U

Rev.3

Certificate History

Revision	Description	Report no.	Issue date
1	Original certificate	2008-3122	2008-03-14
2	Changed nameplate , cemented material and added types	2008-3122	2012-03-23
3	Change the ambient temperature /added service temperature deleted CZ0201-8 type, modified schedule of limitations	2008-3122	2014-08-19

[15] Description of component

The switch module CZ0201 series comes in six variants. CZ0201-6, CZ0201-7, CZ0201-A6, CZ0201-A7, CZ0201-B7 CZ0201-H6. These types are of composite structure with type of protection “d” and “e”. The contact compartment is of type d, the volume of which is less than 10cm³. For the models with screw terminals, the recommended tightening torque is 1,1Nm.

2-Poles switch

CZ	02	01	-	□	□	
						Contact point :0 -1NO+1NC ; 1-2NC ; 2 -2 NO
						Mounting type :
						6::Board front rail type 7:Board back type
						Design Number
						Year number of design and development of product
						Abbreviation code of manufacturer name

4-Poles switch

CZ	02	01	-	□	6	□	□	
								Switch function code (01~13 , 50 ~54)
								Mounting type :
								6::Board front rail type 7:Board back type
								4 Poles switch code : H , A ,B Type
								Design Number
								Year number of design and development of product
								Abbreviation code of manufacturer name

Ambient temperature : -40°C ≤ Ta ≤ +55°C

Rated Service temperature : -40°C to +90°C

Supply voltage: AC 250V 16A;
DC 110V 1A;

Degrees of protection (IP Code)

IP20

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Rev. 3

[16] Project No.: PRJC-22747-2007-PRC-RGC

Descriptive Documents

Number	Title	Rev.	Date
5CZ0201.000.001~003	CZ0201-6□Explosion-proof switch module	-	2013.05.16
5CZ0201.000.006~008	CZ0201-7□ Explosion-proof switch module	-	2013.05.16
5CZ0201.000.012	KH00.000 core of 4-poles switch	-	2013.05.16
5CZ0201.000.013~026	CZ0201-H6□Explosion-proof switch module	-	2013.05.16
5CZ0201.001.000. 1~2	K600.0031~2 combination of static contact	-	2013.05.16
5CZ0201.001.001.1~2	K600.003.005.1~2 combination of static contact	-	2013.05.16
8CZ0201.003.001	K600.003.001 substrate	-	2013.05.16
8CZ0201.003.004	K600.003.004 lock sheet	-	2007-04-07
8CZ0201.005.001~003	K600.005 protection cover (type board front)	-	2007-04-07
8CZ0201.006.001~002	K600.006 Shell	-	2013.05.16
8CZ0201.008.000	K600.008 flameproof cover	-	2007-04-07
8CZ0201.009.000	K600.009 push pole	-	2007-04-07
8CZ0201.012.001~003	K700.002-00~002 protection cover (board backward)	-	2007-04-07
8CZ0201.014.000	K700.001 housing (board back type)	-	2013.05.16
8CZ0201.015.000	K700.002 protection cover	-	2007-04-07
8CZ0201.017.000	K800.001 board backward cable protection cover	-	2007-04-07
8CZ0201.021.000	K800.004 sealing ring	-	2007-04-07
8CZ0201.031.000	KH00.003 push pole	-	2007-04-07
8CZ0201.033.000	KH00.005 4-pole switch	-	2013.05.16
8CZ0220.001.003	M16 clamping ring	-	2007-04-05
8CZ0220.001.002.1~2	M16 sealing nut	-	2007-04-07
5CZ0201.000.027~029	CZ0201-A6□ Core of explosion-proof switch	-	2013.05.16
5CZ0201.000.030~034	CZ0201-A6□□ explosion-proof switch module	-	2013.05.16
5CZ0201.000.035~039	CZ0201-A7□□ explosion-proof switch module	-	2011.01.18
5CZ0201.000.040~042	CZ0201-A7□ core of explosion-proof switch	-	2013.05.16
8CZ0201.052.000	Board front type cover	-	2011.01.18
8CZ0201.053.000	Board back type cover	-	2011.01.18
8CZ0201.066.000	Shell(Board back type)	-	2013.05.16
5CZ0201.000.043 ~047	CZ201-B7□ Explosion-proof switch module		2013.05.16

Routine tests: A dielectric test according to clause 7.1 in EN 60079-7:2007 must be carried out.

[17] **Schedule of Limitations**

- The CZ0201 explosion-proof switch module must be installed into a suitably certified enclosure according to types of protection listed in EN 60079-0.
- Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in table 2 of EN 60079-1
- Rated service temperature range for Ex component is -40 °C to +90°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.