



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx CQM 11.0033U** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2011-11-10

Applicant:

Equipment: **Explosion-proof potentiometer module Type CZ0203...**

Optional accessory:

Type of Protection: **Flameproof enclosures "d", Increased safety "e"**

Marking: **Ex de II C Gb**

Approved for issue on behalf of the IECEx
Certification Body:

Zhang Wei

Position:

President

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100037
China





IECEx Certificate of Conformity

Certificate No.: **IECEx CQM 11.0033U**

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Date of issue: 2011-11-10

Issue No: 0

Manufacturer:

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:5

IEC 60079-1:2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

IEC 60079-7:2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CN/CQM/ExTR11.0038/00](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/01](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx CQM 11.0033U**

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Date of issue: 2011-11-10

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of equipment

The CZ0203 series explosion-proof potentiometer module is an Ex component, which is installed inside a suitably certified enclosure.

Schedule of limitations

1. Rating: 200V, 0.1W.
2. The CZ0203 series explosion-proof potentiometer module shall be installed inside an explosion-proof enclosure suitable for the environment.
3. The service temperature specified by the manufacturer is from -55°C to +85°C.

SPECIFIC CONDITIONS OF USE: NO



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Certificate No.: **IECEx CQM 11.0033U**

Page 1 of 4

Certificate history:

Status: **Current**

Issue No: 1

[Issue 0 \(2011-11-10\)](#)

Date of Issue: 2017-03-21

Applicant:

Equipment: **Explosion-proof control module Type CZ0203...**

Optional accessory:

Type of Protection: **Flameproof enclosures "d", Increased safety "e"**

Marking: **Ex db eb IIC Gb**

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

Position:

General Manager

Signature:
(for printed version)

Date:

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Certificate issued by:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100048
China





IECEx Certificate of Conformity

Certificate No.: **IECEx CQM 11.0033U**

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Date of issue: 2017-03-21

Issue No: 1

Manufacturer:

Additional
manufacturing
locations:

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STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CN/CQM/ExTR11.0038/01](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/06](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx CQM 11.0033U**

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Date of issue: 2017-03-21

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of equipment

The CZ0203 explosion-proof control module has the type of protection “db” and “eb”. The terminals for wiring are protected by type “eb”. The enclosure which is made by plastic is protected by type “db”. Different electronic components can be installed inside the enclosure. Each CZ0203 can only contain one type of electronic component. The installation method of CZ0203 is divided into two types: board front and board back. Type board front is used to install with rail, type board back is used to install behind panel.

Rating and nomenclature see as in attachment.

Schedule of limitations for Ex components:

1. The flameproof joints are not intended to be repaired.
2. CZ0203 explosion-proof control module with type of protection “db eb” must be installed into a suitably certified enclosure with IP54 at least. When the control modules are installed in an enclosure of the type of protection increased safety in compliance with IEC 60079-7, the clearance and creepage distances according to section 4.3 and 4.4 and Table 2 must be fulfilled.
3. Rated ambient temperature range:
CZ0203-□□□/□L: $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$; CZ0203-□□□/□H: $-55^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
4. Rated service temperature range:
CZ0203-□□□/□L: -40°C to $+90^{\circ}\text{C}$; CZ0203-□□□/□H: -55°C to $+90^{\circ}\text{C}$

SPECIFIC CONDITIONS OF USE: NO



IECEx Certificate of Conformity

Certificate No.: **IECEx CQM 11.0033U**

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Date of issue: 2017-03-21

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. The standards are updated to IEC 60079-0: 2011, IEC 60079-1: 2014 and IEC 60079-7:2015.
2. The marking is changed from Ex d e IIC Gb into Ex db eb IIC Gb.
3. The service temperature is from -40°C/-55°C to +90°C.
4. The material of the covers and shells is changed from PBT:4306G30 into PBT:4308G30. A new type of material APET PURE52/AP13 for cementing is used when the minimum ambient temperature is -55°C.
5. Name of product is changed to Explosion-proof control module.
6. New types of electronic components inside the enclosure were added.

Annex:

[Attachment to CoC 11.0033U issue 1.pdf](#)



Attachment to Certificate

IECEX CQM 11.0033U issue 1

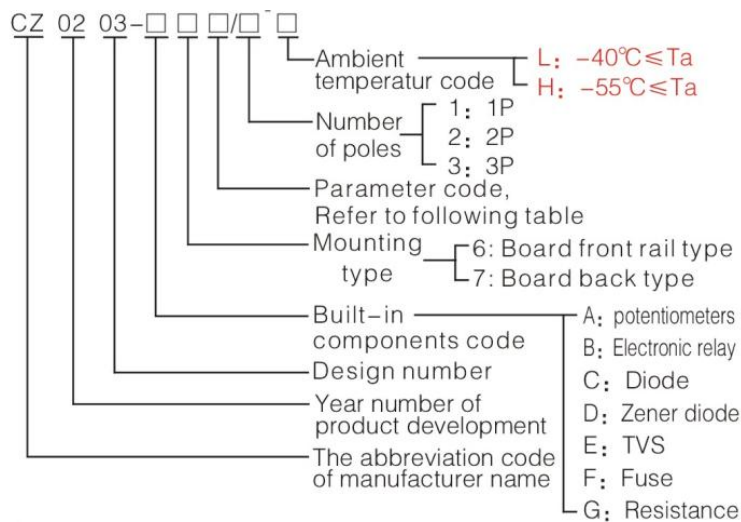


Applicant: CZ EXPLOSION-PROOF ELECTRIC APPLIANCES Co., LTD.

Electrical equipment: Explosion-proof control module CZ0203

Description of equipment:

Nomenclature:



Optional components can be installed inside the enclosure.

Type of component	Rating
Potentiometer	Rated voltage: Max. 200V DC Power rating: Max. 0.1W.
Electronic relay	Switch voltage/current: 250VAC /5A, 30VDC /5A Coil voltage: 5V DC, 6V DC, 9V DC, 12V DC, 18V DC, 24V DC
Diode	Rated voltage: Max 250V AC/DC Rated power : Max 1.5W
Zener diode	Zener voltage: 5.1V~51V AC/DC Dissipation power: Max 5W
Transient Voltage Suppressor(TVS)	Voltage: Max 250V AC DC Dissipation power: Max 5W
Fuse	Rated voltage: 250V AC /300V DC Rated current: 0.5~16A
Resistance	Rated voltage: Max 250V AC DC resistance range: 0.1Ω ~33MΩ Power Rating: Max 1W



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Certificate No.: **IECEx CQM 13.0018X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2013-07-11

Applicant: **CZ EXPLOSION-PROOF ELECTRIC APPLIANCES Co., LTD**
No.1 Qixing Rd, Qixing Town, Nanhu District, Jiaxing City, Zhejiang, P.R. China
China

Equipment: **Explosion-proof electric for panel mounting**

Optional accessory:

Type of Protection: **Ex "d" "e" "t"**

Marking: **Ex d e IIC T6 Gb IP66 -40°C ≤ Ta ≤ +50°C**
Ex tb III C T80°C Db IP66 -40°C ≤ Ta ≤ +50°C

Approved for issue on behalf of the IECEx
Certification Body:

Zhang Wei

Position:

President

Signature:
(for printed version)

Date:

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No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100048
China





IECEx Certificate of Conformity

Certificate No.: **IECEx CQM 13.0018X**

Page 2 of 3

Date of issue: 2013-07-11

Issue No: 0

Manufacturer: **CZ EXPLOSION-PROOF ELECTRIC APPLIANCES Co., LTD**
No.1 Qixing Rd, Qixing Town, Nanhu District, Jiaxing City, Zhejiang, P.R. China
China

Additional
manufacturing
locations:

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STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

IEC 60079-31:2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition:1

IEC 60079-7:2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CN/CQM/ExTR13.0021/00](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/02](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx CQM 13.0018X**

Page 3 of 3

Date of issue: 2013-07-11

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of equipment

The CZ02 explosion-proof electric for panel mounting is of type of protection "de" and "tb".

The enclosure of this product composes of protective housing and operation head type P /K /L which is certified Ex component.

The material of the housing is plastic. The cable gland is integrated with enclosure.

Certified different Ex component is mounted inside the enclosure and they constitute 4 models of explosion-proof electric modules for panel mounting.

Technical data

Product and Model	Rated electric values	Ex component mounted into
CZ0201 Explosion-proof switch module for panel mounting	250VAC/16A, 110VDC/1A	CZ 0201 Explosion-proof switch module
CZ0202 Explosion-proof signal lamp module for panel mounting	12VAC/DC ~ 250VAC/DC, 200 ~ 400VAC	CZ0202 Explosion-proof signal lamp module
CZ0203 Explosion-proof potentiometer module for panel mounting	Power rating: 0.1W, Max. input voltage: 200VDC or power rating, whichever is smaller	CZ0212 Explosion-proof signal lamp with button module
CZ0212 Explosion-proof signal lamp with button module for panel mounting	For button: 250VAC /10A, 24VDC /1AFor signal lamp:12VAC/DC ~ 250V AC/DC	CZ0212 Explosion-proof signal lamp with button module

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The cable glands do not provide sufficient clamping and the user must provide effective clamping of the cable to ensure that pulling and twisting is not transmitted to the terminations.
2. The CZ02 explosion-proof electric for panel mounting should be installed in place to avoid the risk of mechanical impact.
3. Warning: potential electrostatic charge hazard, see instructions.