



EU-TYPE EXAMINATION CERTIFICATE

Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Certificate Number: **Sira 16ATEX1269X** Issue: **0**

Equipment: **CZ1246 Explosion-proof Position Switches**

Applicant: **CZ Explosion-Proof Electric Appliances Co. Ltd.**

Address: No. 1 Qixing Rd
Qixing Town
Nanhu District
Jiaxing City
Zhejiang Province 314002
China.

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

Sira Certification Service, notified body number 0518 in accordance with Articles 17 and 21 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 14.2.

Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012 EN 60079-1:2014 EN 60079-7:2015 EN 60079-31:2014

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

The marking of the equipment shall include the following:



II 2 G D

Ex db eb IIC T6 Gb; Ex tb IIIC T80°C Db (applicable for $I_{e} \leq 6A$ and $-20^{\circ}C \leq T_{a} \leq 50^{\circ}C$)

Ex db eb IIC T5 Gb; Ex tb IIIC T95°C Db (applicable for $6A < I_{e} \leq 10A$ and $-20^{\circ}C \leq T_{a} \leq 40^{\circ}C$)



Project Number 70077707

N Jones
Certification Manager

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 16ATEX1269X
Issue 0

13 DESCRIPTION OF EQUIPMENT

The CZ1246 Explosion-proof Position Switches comprises of a CZ0207 switch Module installed inside an enclosure with a push rod and operating head. The enclosure is manufactured from plastic and comprises a body and cover which are assembled together with a M3 screw, the cover sealing is provided by a silicone rubber O-ring inside a groove between the body and cover. The CZ0207 switch module is certified as an Ex component under certificate of Sira 16ATEX1172U and is marked Ex db eb IIC Gb.

The pushing rod and operation head are mechanical structure of position switch which pass through a side wall of enclosure, the joints between pushing rod, operation head and body of enclosure are sealed by the silicone rubber seal gasket or O-ring. There is a M20 threaded holes on another side wall of enclosure for suitably ATEX certified cable gland.

All joints of enclosure are sealed with silicone rubber seal gasket to ensure ingress protection of enclosure to comply with IP66.

The type designation of CZ1246 is as follows:

<u>CZ</u>	<u>12</u>	<u>46</u>	<u>/ 1</u>	<u>-□</u>	<u>-□</u>	<u>-□</u>	
							Code of trigger head
							00: Trigger head is not required
							01: spring returning, two-ways
							Code of operator
							See Table 1
							Contact point
							O: 1NO+1NC (Slow-action)
							1: 2NC (Slow-action)
							2: 2NO (Slow-action)
							3: 1NO+1NC (Snap-action)
							Material Code:1
							material of enclosure
							is Plastic
							Design number
							Year No. of product development
							Abbreviation code of manufacturer name

Table 1

Code of operator	Type of operation head	Code of operator	Type of operation head
ZCE02	ZCE02 Operation head	ZCEF0	ZCEF0 Operation head
ZCE06	ZCE06 Operation head	ZCEF2	ZCEF2 Operation head
ZCE10	ZCE10 Operation head	ZCY18	ZCY18 Operation head
ZCE11	ZCE11 Operation head	ZCY39	ZCY39 Operation head
ZCE21	ZCE21 Operation head	ZCY45	ZCY45 Operation head
ZCE27	ZCE27 Operation head	ZCY49	ZCY49 Operation head
ZCE28	ZCE28 Operation head		

Model ratings of CZ1246 are as follows:

Rated current: Max. 10A

Rated voltage: Max. AC 320V 50/60Hz or Max. DC 250V

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 16ATEX1269X
Issue 0

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	07 February 2017	R70077707A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 CZ1246 Explosion-proof Position Switches shall only be fitted in low impact risk areas.
- 15.2 Only a suitably ATEX certified cable gland or stopping plug can be used, The IP (ingress protection) of cable glands and stopping plugs should be at least IP66.
- 15.3 The flameproof joint of the CZ0207 explosion-proof switch module cannot be repaired.
- 15.4 The rated cross section of terminal's conductor of CZ0207 explosion-proof isolation switch module is 2.5mm², the tightening torque shall be 0.5Nm.
- 15.5 The tightening torque of the screw used to secure the cover and body of the enclosure of CZ1246 Explosion-proof Position Switches shall be 0.5 to 0.7 Nm.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 A dielectric strength of 1640 V ac shall be applied between the terminals and enclosure and between different terminals for at least 1 minute as required by EN60079-7:2015 clause 6.1, or 1.2 times test voltage for at least 100ms as required by EN60079-7:2015 clause 7.1.

Certificate Annexe

Certificate Number: Sira 16ATEX1269X
Equipment: CZ1246 Explosion-proof Position Switches
Applicant: CZ Explosion-Proof Electric Appliances Co. Ltd



Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
2CZ1246.001~013.001~004	1 of 2	AA	23 Oct 16	CZ1246/1 explosion-proof position switches
2CZ1246.001~013.001~004	2 of 2	AA	23 Oct 16	CZ1246/1 explosion-proof position switches
8CZ1246.000.001	1 of 1	-	16 Nov 16	CZ1246 Enclosure
8CZ1246.000.003	1 of 1	-	16 Nov 16	CZ1246 Cover
8CZ1246.000.004	1 of 1	-	16 Nov 16	CZ1246 Push Rod
8CZ1246.000.006	1 of 1	-	23 Oct 16	CZ1246 Sealing Gasket
8CZ1246.000.007	1 of 1	-	16 Nov 16	CZ1246 Sealing Parts
8CZ1246.000.008	1 of 1	-	16 Nov 16	CZ1246 Sealing Ring
8CZ1246.000.011	1 of 1	AA	09 Jan 17	CZ1246 Nameplate
8CZ1246.000.012	1 of 1	-	16 Nov 16	CZ1246 Sealing Ring

This certificate and its schedules may only be reproduced in its entirety and without change.