



EU-TYPE EXAMINATION CERTIFICATE

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

Certificate Number: **Sira 18ATEX1189U** Issue: **0**

Component: **Flameproof Component, Flameproof Bushing and Flameproof Binding Pillar**

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

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

This component and any acceptable variation thereto are 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 component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component 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/A11:2013 EN 60079-1:2014 EN 60070-7:2015 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.

The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any limitations of use are listed in the schedule to this certificate.

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

The marking of the component shall include the following:

CZ2000/1, CZ2000/2B



II 2GD
Ex db IIC Gb
Ex tb IIIC Db

CZ2000/2A



II 2 G
Ex db IIC Gb

CZ2000/3



II 2 G
Ex db eb IIC Gb

Project Number 70122646

N Jones
Certification Manager

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



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 18ATEX1189U
Issue 0

13 DESCRIPTION OF COMPONENT

CZ2000/1 Series flameproof component are certified as Ex component which protection type is Ex db(flameproof) and Ex tb (dust protection). CZ2000/1 series flameproof component included the following modules:

Product Name	Model	Description	Rating
Flameproof push button Modules	CZ2000/1-BA□-□	The flameproof switch consists of a certified CZ4000 series operating head (Certificate number: Sira 15 ATEX3333U) and switch assembly. The switch assembly consists of a body made of Aluminium alloy, operating rod made of stainless steel and a switch contact. The body has male flameproof metric threads that are used to attach to flameproof equipment. The switch contact shall be installed inside a flameproof enclosure. An O-ring is fitted to the body and secured in a groove. The degree of ingress protection provided is IP66.	Rated Voltage: 400V AC/DC Rated Current: 16A
Flameproof control switch Modules	CZ2000/1-BB□□-□	The flameproof switch consisted of an assembly of rotating operating handle made of plastic and a switch operating mechanism. The Switch operating mechanism consisted of a sleeve made of aluminium alloy and a shaft made of metallic material. The sleeve has male flameproof metric threads that are used to attach to flameproof equipment. An O-ring is fitted into the sleeve and secured in a groove. The degree of ingress protection provided is IP66.	N. A
Flameproof switch operating handle Assembly	CZ2000/1-BC□-□ CZ2000/1-BE□-□ CZ2000/1-BF□-□	The flameproof switch operating handle consisted of various assemblies of rotating operating handle made of plastic and a switch operating mechanism. The switch operating mechanism consisted of a sleeve made of aluminium alloy and a shaft made of metallic material. The sleeve has male flameproof metric threads that are used to attach to a flameproof equipment. An O-ring is secured in a groove. The degree of ingress protection provided is IP66.	N. A

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



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 18ATEX1189U
Issue 0

Product Name	Model	Description	Rating
Flameproof Signal lamp module	CZ2000/1-BD7-□□-□	The flameproof signal lamp module consisted of a press cover and a light cover made of plastic and a body made of Aluminium. The light cover is cemented with the body. The body has male flameproof threads that are used to attach to flameproof equipment. The lamp and terminal, wiring is installed inside a flameproof compartment. An O-Rings are fitted to the body and secured in a groove. The degree of ingress protection provided is IP66.	Rated Voltage: 20-250V AC/DC 380-400 V AC 10-28V AC/DC 50-277V AC/DC
Flameproof instrument operation module	CZ2000/1-BI7-□-□	The flameproof Instrument operation module consisted of a tag box made of plastic material and a pushing rod, a sleeve made of stainless steel. The sleeve has male flameproof metric threads that are used to attach to a flameproof equipment. The pushing rod is assembled with sleeve, there is a spring between them. The degree of ingress protection provided is IP66.	N. A
Flameproof Potentiometer Module	CZ2000/1-BP7-□-□	The flameproof potentiometer module consisted of cover assemblies made of plastic material, sleeve and rotating rod made of stainless material. The cover assemblies include cover, rotating knob. O-ring secured in a groove of Cover assemblies. The sleeve has male flameproof threads that are used to attach to a flameproof equipment. A shell, and cover made of plastic are cemented with sleeve by encapsulated material to form a flameproof compartment. The potentiometer is installed inside of this compartment. The degree of ingress protection provided is IP 66.	DC 200V or 0.1W
Flameproof Observation windows modules	CZ2000/1-BW7-□-□	The flameproof observation windows modules consisted of a glass, a body and a compression ring and a O-rings. The compression ring and body are made of Aluminium alloy. The glass is cemented with the body by encapsulation material. Compression Ring are fixed by M3 Pan head hexagon screws to compress the glass. The degree of ingress protection provided is IP66.	N. A

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
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org



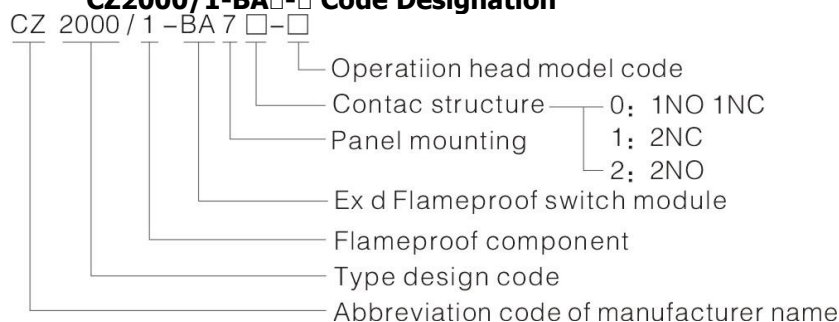
SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

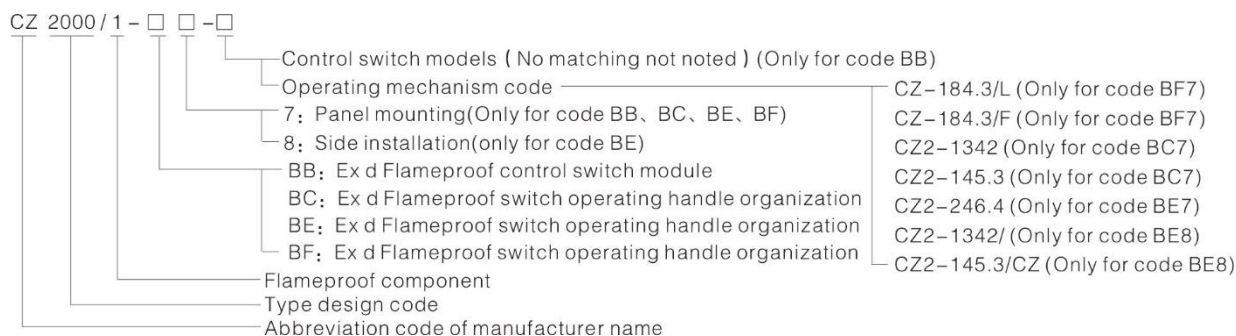
Sira 18ATEX1189U
Issue 0

Product Name	Model	Description	Rating
Flameproof light-control switch module	CZ2000/1-BG7□	The flameproof light-control module consisted a cover made of plastic material and a body made of Aluminium alloy. The Cover is cemented with body by encapsulation material to form a flameproof compartment to where a light source is installed. The body has male threads that are used to attach to a flameproof equipment. The O-ring is secured in a groove of the body. The degree of ingress protection provided is IP66.	Rated voltage: 100-250V AC Rated Current: 10A

CZ2000/1-BA□-□ Code Designation



CZ2000/1-B□□□-□ Code Designation (BB, BC, BE, BF)



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

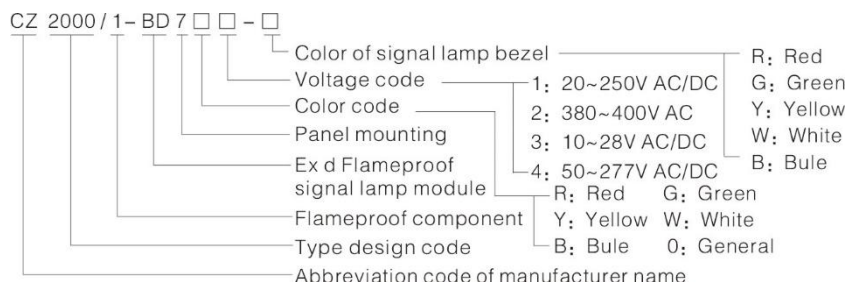


SCHEDULE

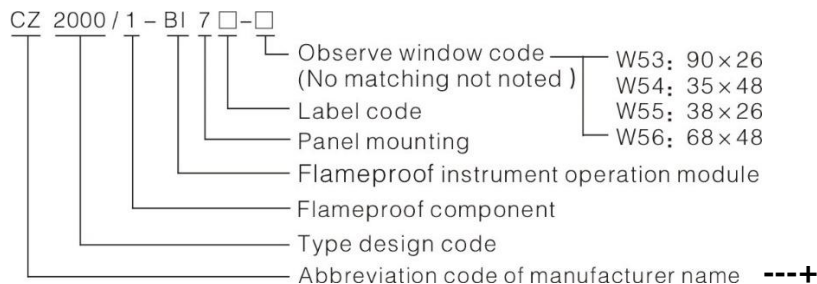
EU-TYPE EXAMINATION CERTIFICATE

Sira 18ATEX1189U
Issue 0

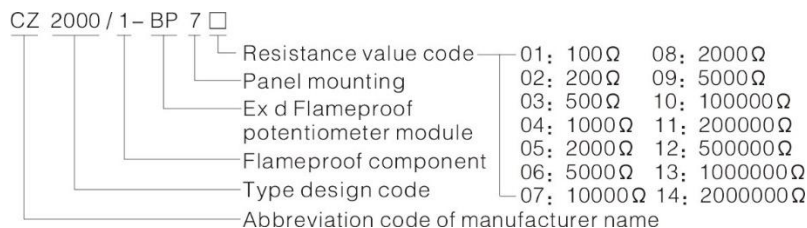
CZ2000/1-BD7-□□-□ Code Designation



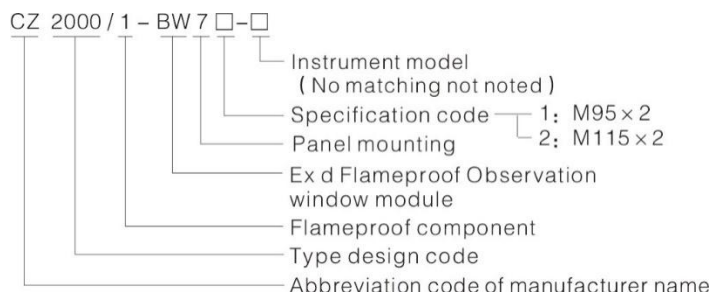
CZ2000/1-BI7-□□ Code Designation



CZ2000/1-BP7-□□ Code Designation



CZ2000/1-BW7-□□ Code Designation



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

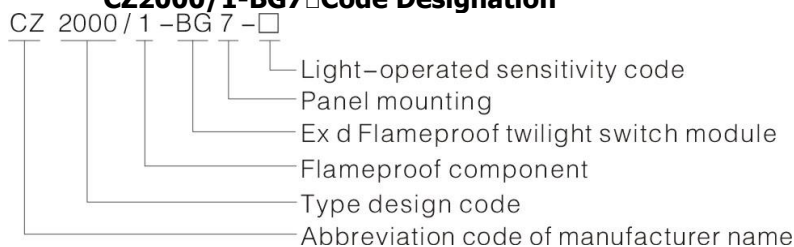


SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 18ATEX1189U
Issue 0

CZ2000/1-BG7 Code Designation



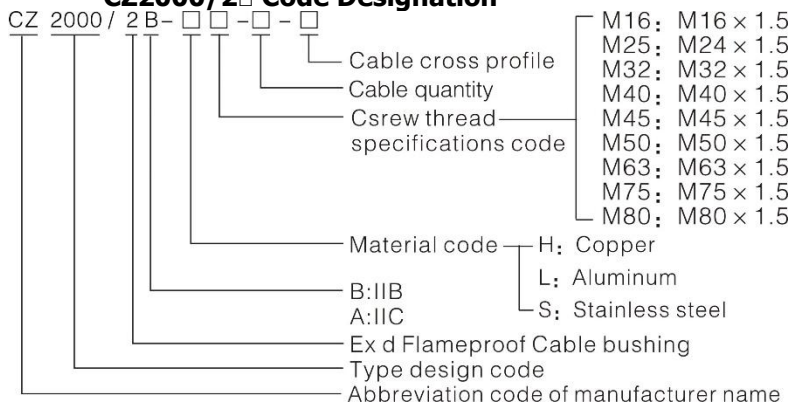
CZ2000/2 Series Bushing

CZ2000/2A and CZ2000/2B bushing certified as Ex component.

The body of the CZ2000/2A is made of copper, aluminium alloy or stainless steel. Cables pass through the inside of the body which is filled with cement. The body has male flameproof metric threads that are used to attach to flameproof equipment. An O-ring is fitted to the body and secured in a groove. The degree of ingress protection provided by the cable bushing is IP66.

The body and lock nuts of the CZ2000/2B are made of copper, aluminium alloy or stainless steel. There is a flange in the centre of body outside wall to attach to flameproof equipment using the two lock nuts. Cables pass through the inside of the body which is filled with cement.

CZ2000/2 Code Designation



Rating of CZ2000/2

Maximum Rating Voltage: 750V AC/DC

Rating Current

Cross Section of Conductor (mm ²)	Rating Current of each Conduct (A)
0.5	1.3 to 3.6
0.75	1.8 to 5.4
1	2.7 to 7.2
1.5	3.6 to 10.9
2.5	3.6 to 13.6
4	7.2 to 22.7
6	7.2 to 22.7

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
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

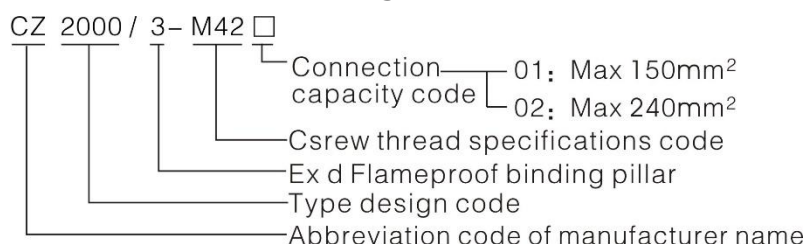
Sira 18ATEX1189U
Issue 0

Cross Section of Conductor (mm ²)	Rating Current of each Conduct (A)
10	13.6 to 45.4
16	22.7 to 59
25	29 to 104.5
35	45.4 to 136.3
50	77.2 to 181.8
70	90.9 to 227.2
95	136.3 to 318.1
120	136.3 to 363.6

CZ2000/3 Post bushing

CZ2000/3 flameproof post bushing consists of a post and threaded body made of copper, a shell body made of insulating plastic and terminals made of copper. The post, shell body and threaded body are integrated by injection moulding methods, the threaded body has male flameproof metric threads that are used to attach to flameproof equipment. The protection of the post bushing is Ex db. The terminal is protected by Ex eb and is used to terminate electrical conductors.

CZ2000/3 Code Designation



Rating of CZ2000/3

Rating Voltage: 400V, 500V, 690V, 1000V AC/DC

Rating Current

Type	Terminal rated cross section (mm ²)		Maximum Rated current (A)	CTI of insulation material
	Cross section of multiple conductors	Cross section of single conductors		
CZ2000/3 M42 01	50-120	50-120	693	600
CZ2000/3 M42 02	120-240	120-240	727.3	600

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	06 September 2019	R70122646A	The release of the prime certificate.

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



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 18ATEX1189U
Issue 0

15 SCHEDULE OF LIMITATIONS

- 15.1 The following flameproof joints have a maximum constructional gap (ic) and minimum joint length (L and l) other than the relevant maximum or minimum required by the table 2, table 4 and Table 5 of IEC60079-1. For the information necessary to maintain these flameproof joint, the user shall refer to the information detailed table 1 as below:

Table 1: Non-threaded Joints

Component Type	Location	Type of flameproof Joints	Flameproof Joints	
			Maximum Gap (ic) mm	Minimum width of Joint (mm) L
CZ2000/1-BA□-□	Operating Rod and sleeve	Cylindrical Joints	0.1	25.5
CZ2000/1-BB□□-□	Operating Rod and sleeve	Cylindrical Joints	0.1	26
CZ2000/1-BC□-□	Operating Rod and sleeve	Cylindrical Joints	0.1	35.5
CZ2000/1-BE□-□	Operating Rod and sleeve	Cylindrical Joints	0.1	30.5
CZ2000/1-BF□-□	Operating Rod and sleeve	Cylindrical Joints	0.1	35.5
CZ2000/1-BI7□-□	Operating Rod and sleeve	Cylindrical Joints	0.1	27

- 15.2 When CZ2000 Series component is installed with certified Ex equipment, the minimum engaged threads should comply with the following requirements:

Component Type	Location	Threads	Tolerance	Pitch (mm)	Minimum Engaged Threads
CZ2000/1-BA□-□	Sleeve	M30x1.5	6g	1.5	6
CZ2000/1-BB□□-□	Sleeve	M30x1.5	6g	1.5	6
CZ2000/1-BC□-□	Sleeve	M16x1.5	6g	1.5	6
CZ2000/1-BE□-□	Sleeve	M25x1.5	6g	1.5	6
CZ2000/1-BF□-□	Sleeve	M16x1.5	6g	1.5	6
CZ2000/1-BD7-□□-□	Body	M30x1.5	6g	1.5	6
CZ2000/1-BI7□-□	sleeve	M6x0.75	6g	0.75	12
CZ2000/1-BP7□-□	Body	M30x1.5	6g	1.5	6
CZ2000/1-BW7□-□	Mounting Plate	M95x2 M115x2	6g	2	5
CZ2000/1-BG7□	Body	M30x1.5	6g	1.5	6
	Body and body cover	M57x1	6g	1	8

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



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 18ATEX1189U
Issue 0

Component Type	Location	Threads	Tolerance	Pitch (mm)	Minimum Engaged Threads
CZ2000/2A-□□-□-□	Nut	M16x1.5 M25x1.5 M32x1.5 M40x1.5 M45x1.5 M50x1.5 M63x1.5 M75x1.5 M80x1.5	6g	1.5	8
CZ2000/2B-□□-□-□	Nut	M50x1.5	6g	1.5	8
CZ2000/3-M42□-□-□	Nut	M42x1.5	6g	1.5	8

- 15.3 The service temperature of non-metallic parts of CZ2000 Series components are listed below:

Component Type	Service temperature range	Remark
CZ2000/1 BA	-55°C to 65°C (For operation Head)	
	-55 to 80 °C (Except for operation head)	
CZ2000/1 Series (Except for CZ2000/1 BA)	-55 to 80 °C	Including Plastic material, O-ring, potting material
CZ2000/2 Series	-55 to 100 °C	Potting Material
CZ2000/3 Series	-55 to 100 °C	Plastic material

The rated ambient temperature range of CZ2000/1, CZ2000/2 and CZ2000/3 is -55 to 60° C.

- 15.4 CZ2000/1 BA, BB, BC, BD, BE, BF, BG, BI and CZ2000/2A Series components shall only be used in a fixed installation, be cleaned with a damp cloth and sited away from any static charging methods e.g. near forced air movement or where they can easily be rubbed by passers-by.
- 15.5 CZ2000/1 series components have been subjected to a type test of overpressure according to clause 15.2.3.1 of EN 60079-1 with 16.7 bar (maximum reference pressure test of the enclosure installed with CZ2000/1 shall not be greater than 11.09 bar) and 10s duration.
- 15.6 CZ2000/2 and CZ2000/3 series components have been subjected to a type test of overpressure according to clause 15.2.3.1 of EN 60079-1 with 30 bar (maximum reference pressure of the enclosure installed with CZ2000/2 and CZ2000/3 shall not be greater than 20 bar) and 10s duration.
- 15.7 CZ2000/1, CZ2000/2 and CZ2000/3 series components have been subjected to a non-transmission type test with group IIC gas according to 15.3.3 of EN 60079-1 associated with a flameproof enclosure with a maximum internal net volume of 307L. The test was carried out for ambient temperatures up to 60° C. **The CZ2000/2A and CZ2000/2B must have a minimum conductor length of 200 mm inside the flameproof enclosure.**

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



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 18ATEX1189U
Issue 0

15.8 The temperature rise at cemented joint of the CZ2000/2 series bushing is shown below:

Type	Maximum Cross of conductor(mm ²)	Maximum Number of conductors	Maximum current of each conductor (A) Notes 2	Maximum Power Dissipation of Conductor (W) Notes 1	Temperature rise (K)
CZ2000/2	0.5	100	4	1.01	81.6
			3.5	0.77	32.4
			3.0	0.57	25.2
			2.5	0.39	20
			2	0.25	13.6
CZ2000/2	0.75	100	4	0.67	24.5
			3	0.38	15.4
			2.5	0.26	10.9
			2	0.17	7.9
CZ2000/2	1.0	100	8	2.01	52.9
			6	1.13	32.7
			4	0.5	15.9
			3	0.28	10.5
CZ2000/2	1.5	100	12	3.1	70.1
			8	1.38	32.7
			6	0.77	17.6
			4	0.34	9.4
CZ2000/2	2.5	100	20	5.16	89.7
			16	3.3	53.6
			12	1.86	34.7
			8	0.82	18.4
			6	0.46	12.3
			4	0.21	5.8
CZ2000/2	4.0	92	25	4.59	67.9
			20	2.94	48.4
			16	1.88	29.4
			12	1.06	19.8
			8	0.47	10.0
CZ2000/2	6.0	73	32	3.13	66.7
			25	1.91	37.8
			20	1.22	26.9
			16	0.78	16.7
			12	0.44	11.1
			8	0.20	6.1
CZ2000/2	10	31	50	2.85	51.1

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



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 18ATEX1189U
Issue 0

Type	Maximum Cross of conductor(mm ²)	Maximum Number of conductors	Maximum current of each conductor (A) Notes 2	Maximum Power Dissipation of Conductor (W) Notes 1	Temperature rise (K)
			32	1.17	23.4
			25	0.71	15.5
			20	0.46	10.7
			16	0.29	6.4
CZ2000/2	16	24	65	2.37	45.9
			50	1.40	28.5
			32	0.57	12.9
			25	0.35	8.6
CZ2000/2	25	14	115	3.24	46.1
			100	2.45	35.2
			85	1.77	26.6
			65	1.03	17.8
			50	0.61	13
			32	0.25	5.1
CZ2000/2	35	13	150	3.63	47.6
			130	2.73	35.4
			115	2.14	28.5
			100	1.61	21.8
			85	1.17	15.1
			65	0.68	10.3
			50	0.40	7
CZ2000/2	50	8	200	3.95	50.4
			175	3.02	36.6
			150	2.22	28.3
			130	1.67	21.5
			115	1.31	16.8
			100	0.99	13.2
			85	0.71	9.9
			70	0.50	7.0
CZ2000/2	70	7	250	3.81	43.9
			200	2.44	29.7
			175	1.86	24.5
			150	1.37	17.8
			130	1.03	13.3
			115	0.81	11.2
			100	0.61	9.4
			70	0.40	7.0
CZ2000/2	95	7	350	5.65	49.7
			300	4.15	40.9

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



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 18ATEX1189U
Issue 0

Type	Maximum Cross of conductor(mm ²)	Maximum Number of conductors	Maximum current of each conductor (A) Notes 2	Maximum Power Dissipation of Conductor (W) Notes 1	Temperature rise (K)
			275	3.49	35.2
			250	2.88	30.1
			225	2.34	23.9
			200	1.85	20
			175	1.41	15.1
			150	1.04	11.6
			130	0.78	8.4
CZ2000	120	4	400	3.3	41.0
			350	2.52	33.2
			300	1.85	24.3
			250	1.29	19.6
			225	1.04	14.2
			200	0.82	11.4
			175	0.63	9.2
			150	0.46	7.1

Note 1: Maximum power dissipation is calculated according to the following formula:

$P=I^2 \times R$, I mean the maximum rated current of each conductor, R means total resistance of conductors which had been encapsulated by compound in the bushing;

Note 2: When judged the temperature rise of surface temperature, the maximum current of each conductor=1.1 x rated current of each conductor. When judged the temperature rise of service temperature, maximum current of each conductor= rated current of each conductor.

15.9 The temperature rises of the non-metallic parts of the CZ2000/3 series post bushing is shown below:

Type	Maximum current (A) Note 1	Temperature rise of insulation plastic (K)	Temperature rise of Ex e terminal (K)
CZ2000/3-M42 01	200	5.8	7.4
	220	5.8	6.6
	250	5.8	7.4
	275	8.4	10.1
	350	12.8	15.1
	385	13.7	16.4
	400	16.9	19.9
	440	25	29.6
	500	26.3	31
	550	26.6	32.6
	630	40.5	47.8
	693	43.4	52.6

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
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 18ATEX1189U
Issue 0

Type	Maximum current (A) Note 1	Temperature rise of insulation plastic (K)	Temperature rise of Ex e terminal (K)
CZ2000/3-M42 01	400	9.7	13.3
	440	12.1	16.2
	500	14.8	19.8
	550	18.1	24.3
	630	23.1	30.4
	693	25.1	34.2
	800	36.1	45.7

Note 1: When judged the temperature rise of surface temperature, the maximum current of each conductor=1.1 x rated current of each conductor. When judged the temperature rise of service temperature, maximum current of each conductor= rated current of each conductor.

- 15.10 The maximum temperature rises of plastic parts for CZ2000/1-BA7□-□ tested with maximum current (1.1 times rated current) is shown below:

Type	Maximum current (A)	Temperature rise of non- metallic plastic cover (K)	Temperature rise of O-ring (K)
CZ2000/1-BA7□-□	17.5	6.8	7.2

- 15.11 The maximum temperature rises of the non-metallic parts of the CZ2000/1-BD7□-□ and CZ2000/1-BP7□-□ tested with 0.9 time and 1.1 times rated voltage is show below:

Type	voltage (V)	Temperature rise of plastic cover (K)	Temperature rise of O-ring (K)	Temperature rise of potting compound (K)
CZ2000/1-BD7□-□	275V	15	15.1	13.8
	440	17.7	18	17.1
	30.8	0.5	1.4	1.2
	305	14.9	14.2	13.5
CZ2000/1-BP7□-□	220	1.7	1.7	4.0

- 15.12 The CZ2000/1 BA, CZ2000/1 BB, CZ2000/1 BF, CZ2000/1 BI Ex components must only be installed where there is a low risk of mechanical danger.
- 15.13 When CZ2000/1 BA associated with CZ4000-Y□ operation head installed on the enclosures and the resistance between them and earth is more than $10^9 \Omega$, the capacitance of their accessible metal parts shall be tested according to 26.14 of EN 60079-0. The capacitance should not exceed 3pF when it is installed in zone 1 and zone 21 and should not exceeded 10pF when it is installed in zone 2 and zone 22. If the capacitance exceeds above value, they shall only be cleaned with a damp cloth and site away from any static charging methods e,g forced air movement or where they can easily be rubbed by passers-by.
- 15.14 The threads of CZ2000/2A and CZ2000/3 have an undercut of 1.5mm to 2mm that shall be taken into account when calculating the thread engagement.

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



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 18ATEX1189U
Issue 0

- 15.15 The terminal screws of the CZ2000/3 shall be tightened to the following value:

Type	Specification of screws	Tightening Torque (N.m)
CZ2000/3 M42 01	M8x30	15
CZ2000/3 M42 02	M10x30	20

Cable lug or similar device should be used when cable or more stranded conductors relate to connection nose of CZ2000/3 and the clamping point only clamped one individual conductors.

The rated current and rated cross section of CZ2000/3 listed as below

Type	Terminal rated cross section(mm ²)		Maximum Rated current(A) /Maximum Rated voltage (V)	CTI of insulation material
	Cross section of multiple conductors	Cross section of single conductors		
CZ2000/3 M42 01	50-120	50-120	693/1000	600
CZ2000/3 M42 02	120-240	120-240	727.2/1000	600

- 15.16 The conductors of the CZ2000/2 must be suitably connected in accordance with their ratings and in an enclosure meeting a type of protection to EN 60079-0.

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 CZ2000/1 Series Ex components shall be subjected to routine overpressure test according to clause 16.1.1 of EN60079-1 the pressure of routine overpressure test shall be 16.7bar and duration shall be at least 10 seconds. After the overpressure test, the joints should have not permanent deformation or damages.

The internal free volume of independent flameproof compartment of CZ2000/1 BG and CZ2000/1/BP is less than 10cm³, the independent flameproof compartment should be subjected to routine overpressure test, the pressure of routine overpressure shall be 16.2 bar and duration shall be at least 10 seconds, the cemented joints should have not any leakage.

- 17.4 CZ2000/3 shall be subjected to dielectric strength test between connection nose and transition nut according to clause 6.1 of EN60079-7, test voltage should be 1000+2Un, test duration is 1 minutes. Alternatively, dielectric strength test shall be carried out at 1.2 time the test voltage, test duration is 100ms.

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

Certificate Annexe



Certificate Number: **Sira 18ATEX1189U**
 Component: **Flameproof Component, Bushing and Binding Pillar**
 Applicant: **CZ Explosion-Proof Electric Appliances Co. Ltd.**

Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
2BA.001~003.000	1 of 1	AA	01 Jul 19	CZ2000/1 BA7□-□Ex d Flameproof switch module
2BA.004~008.000	1 of 1	AA	01 Jul 19	CZ2000/1 BA7□-□Ex d Flameproof switch module
5BA.006~008.000	1 of 1	AA	01 Jul 19	BA□ Flameproof switch component
5BA.009~013.000	1 of 1	AA	01 Jul 19	BA□ Flameproof switch component
8BA.006.000	1 of 1	AA	01 Jul 19	BA.006 Body
8BA.008.000	1 of 1	AA	01 Jul 19	BA.008 Flameproof rod
8BA.014.000	1 of 1	AA	01 Jul 19	S07E0128 Sealing ring
8BA.015.000	1 of 1	AA	01 Jul 19	BA.015 Button coat
8BA.017.000	1 of 1	AA	01 Jul 19	BA.017 Gasket
8BA.018.000	1 of 1	AA	01 Jul 19	BA.018 Nameplate
2BB.001.000	1 of 1	AA	01 Jul 19	CZ2000/1-BB7-□ Ex d Flameproof control switch module
5BB.001.000	1 of 1	AA	01 Jul 19	BB.001 Operating shaft combination
8BB.001.000	1 of 1	AA	01 Jul 19	BB.001 Flameproof sleeve
8BB.005.000	1 of 1	AA	01 Jul 19	BB.005 Handle coat
8BB.007.000	1 of 1	AA	01 Jul 19	BB.007 Handle
8BB.008.000	1 of 1	AA	01 Jul 19	BB.008 Flameproof shaft
88003.004.000	1 of 1	AB	01 Jul 19	8003 Tower sealing ring
88003.012.000	1 of 1	AA	01 Jul 19	8003/3Y or 8003/3D Main switch Handle
88029.003.000	1 of 1	AA	01 Jul 19	8029 Switch shafts
8BB.000.010	1 of 1	AA	01 Jul 19	BB Nameplate
2BC.001~002.000	1 of 1	AA	01 Jul 19	CZ2000/1-BC7-□ Ex d Flameproof switch operating handle organization
5BC.001.000	1 of 1	AA	01 Jul 19	8×8×71.5 Operating shaft combination
8BC.001.000	1 of 1	AA	01 Jul 19	BC.001 Handle coat
8BC.004.000	1 of 1	AA	01 Jul 19	BC.004 Switch shaft
8BC.005.000	1 of 1	AA	01 Jul 19	8×8×71.5 Flameproof shaft
8BC.006.000	1 of 1	AA	01 Jul 19	M16×1.5 Flameproof copper sleeve
8BC.008.000	1 of 1	AA	01 Jul 19	S07E0451 Sealing ring
8BC.000.010	1 of 1	AA	01 Jul 19	BC Nameplate
2BD.001.000	1 of 1	AA	01 Jul 19	CZ2000/1-BD7□□-□ Ex d Flameproof signal lamp module
8BD.000.001	1 of 1	AA	01 Jul 19	BD Body
8BD.000.002	1 of 1	AA	01 Jul 19	BD Terminal install the parts
8BD.000.004	1 of 1	AA	01 Jul 19	BD Lamp-chimney
8BD.000.006	1 of 1	AA	01 Jul 19	S07E0028 Sealing ring
8BD.000.007	1 of 1	AA	01 Jul 19	BD Locking Nut
8L1.002.001A~005A	1 of 1	AC	01 Jul 19	L002.002 A Cover
8P1.002.001~002	1 of 1	AC	01 Jul 19	P100.002 Press cover
8P3.004.000	1 of 1	AC	01 Jul 19	P300.004 Sealing gasket
8BD.000.008	1 of 1	AA	01 Jul 19	BD Nameplate
8BE.001.000	1 of 1	AA	01 Jul 19	BE 001 Operation Handle
8BE.002.000	1 of 1	AA	01 Jul 19	M25x1.5 Flameproof copper sleeve
8BE.003.000	1 of 1	AA	01 Jul 19	12x12x69 flame-proof shaft
8BE.004.000	1 of 1	AA	01 Jul 19	S07E0122 Sealing Ring

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
 Email: ukinfo@csagroup.org
 Web: www.csagroupuk.org

Certificate Annexe



Certificate Number: **Sira 18ATEX1189U**
 Component: **Flameproof Component, Bushing and Binding Pillar**
 Applicant: **CZ Explosion-Proof Electric Appliances Co. Ltd.**

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
8BE.005.000	1 of 1	AA	01 Jul 19	S07E0122 Sealing Ring
8BE.000.015	1 of 1	AA	01 Jul 19	BE Nameplate
5BE.001.000	1 of 1	AA	01 Jul 19	12x12x69 operating shaft combination
2BE.001~002.000	1 of 1	AA	01 Jul 19	CZ2000/1 BE8-□ Ex d flameproof switch operating handle assembly
8BE.013.000	1 of 1	AA	01 Jul 19	BE operation coat
2BE.003.000	1 of 1	AA	01 Jul 19	CZ2000/1-BE7-□ Ex d Flameproof switch operating handle assembly
2BF.001~002.000	1 of 1	AA	01 Jul 19	CZ2000/1-BF7-□ Ex d Flameproof switch operating handle assembly
5BF.001.000	1 of 1	AA	01 Jul 19	6x6x78 Operating shaft combination
8BF.000.010	1 of 1	AA	01 Jul 19	8F Nameplate
8BF.001.000	1 of 1	AA	01 Jul 19	6x6x78 flame-proof shaft
8BF.002.000	1 of 1	AA	01 Jul 19	BF.002 handle coat
2BG.001.000	1 of 1	AA	01 Jul 19	Ex d Flameproof Twilight Switch module
8BG.000.001	1 of 1	AA	01 Jul 19	BG Cover
8BG.000.002	1 of 1	AA	01 Jul 19	BG Body
8BG.000.003	1 of 1	AA	01 Jul 19	S242218 Gasket
8BG.000.010	1 of 1	AA	01 Jul 19	BG Nameplate
2BI.001~004.000	1 of 1	AA	01 Jul 19	CZ2000/1-BI7-□-□ Ex d Flameproof instrument operation module
8BI.000.010	1 of 1	AA	01 Jul 19	BI Nameplate
8BI.001.001	1 of 1	AA	01 Jul 19	Flame-proof push pole
8BI.001.002	1 of 1	AA	01 Jul 19	M6x0.75 Flame-proof sleeve
2BP.000.000	1 of 1	AA	01 Jul 19	CZ2000/1-BP7-□ Ex d Flameproof potentiometer module
8BP.000.010	1 of 1	AA	01 Jul 19	BP Nameplate
8BP.001.000	1 of 1	AA	01 Jul 19	BP.001 Flame-proof body
8BP.002.000	1 of 1	AA	01 Jul 19	BP.002 Shell
8BP.003.000	1 of 1	AA	01 Jul 19	BP.003 flame-proof cover
8CZ0203.003.000	1 of 1	AA	01 Jul 19	K60.03 Adjustment rod
8DW.005.000	1 of 1	AD	01 Jul 19	DW00.005 Knob
8K4.001.000	1 of 1	AD	01 Jul 19	K400.001 Switch Cover
8K4.011.000	1 of 1	AC	01 Jul 19	K400.011 Sealing ring of V type
8K4.012.000	1 of 1	AC	01 Jul 19	901 O-ring
2BW.001~002.000	1 of 1	AA	01 Jul 19	CZ2000/1-BW7-□ Ex d Flameproof Observation window module
5BW.001~002.000	1 of 1	AA	01 Jul 19	CZ2000/1-BW7-□ Ex d Flameproof Observation window module
8BW.000.010	1 of 1	AA	01 Jul 19	BW Nameplate
8BW.001.000	1 of 1	AA	01 Jul 19	M95x2.0 Observation window body
8BW.002.000	1 of 1	AA	01 Jul 19	M115x2.0 Observation window body
8BW.005.000	1 of 1	AA	01 Jul 19	79X12 Toughened glass
8BW006.000	1 of 1	AA	01 Jul 19	99X12 Toughened glass
8BW.007~008.000	1 of 1	AA	01 Jul 19	□x3 Sealing ring
28030.003.001~006	1 of 1	AA	01 Jul 19	CZ2000/2-□M16-□-□ Ex d Flameproof cable bushing

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
 Email: ukinfo@csagroup.org
 Web: www.csagroupuk.org

Certificate Annexe



Certificate Number: **Sira 18ATEX1189U**
 Component: **Flameproof Component, Bushing and Binding Pillar**
 Applicant: **CZ Explosion-Proof Electric Appliances Co. Ltd.**

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
88030.003.001.1	1 of 1	AA	01 Jul 19	8030/M16 Transition nut
28030.004.001~010	1 of 1	AA	01 Jul 19	CZ2000/2-□M25-□-□ Ex d Flameproof cable bushing
88030.004.001	1 of 1	AA	01 Jul 19	8030/M25 Transition nut
28030.005.001~014	1 of 1	AA	01 Jul 19	CZ2000/2-□M32-□-□ Ex d Flameproof cable bushing
88030.005.001	1 of 1	AA	01 Jul 19	8030/M32 Transition nut
28030.006.001~015	1 of 1	AA	01 Jul 19	CZ2000/2-□M40-□-□ Ex d Flameproof cable bushing
88030.006.001	1 of 1	AA	01 Jul 19	8030/M40 Transition nut
28030.008.001~015	1 of 1	AA	01 Jul 19	CZ2000/2-□M45-□-□ Ex d Flameproof cable bushing
88030.008.001	1 of 1	AA	01 Jul 19	8030/M45 Transition Nut
28030.007.001~015	1 of 1	AA	01 Jul 19	CZ2000/2-□M50-□-□ Ex d Flameproof cable bushing
88030.007.001	1 of 1	AA	01 Jul 19	8030/M50 Transition nut
28030.010.001~015	1 of 1	AA	01 Jul 19	CZ2000/2-□M63-□-□ Ex d Flameproof cable bushing
88030.010.001	1 of 1	AA	01 Jul 19	8030/M63 Transition nut
28030.011.001~015	1 of 1	AA	01 Jul 19	CZ2000/2-□M75-□-□ Ex d Flameproof cable bushing
88030.011.001	1 of 1	AA	01 Jul 19	8030/M75 Transition nut
28030.012.001~015	1 of 1	AA	01 Jul 19	CZ2000/2-□M80-□-□ Ex d Flameproof cable bushing
88030.012.001	1 of 1	AA	01 Jul 19	8030/M80 Transition nut
28030.009.001~015	1 of 1	AA	01 Jul 19	CZ2000/2B-□M50-□-□ Ex d Flameproof cable bushing
88030.009.001	1 of 1	AA	01 Jul 19	8030/M50B Transition nut
8CZ2000/2B.000.001	1 of 1	AA	01 Jul 19	Φ78×2 Sealing ring
28041.001~002.000	1 of 1	AA	01 Jul 19	CZ2000/3-M42□ Ex d Flameproof binding plst
58041.000.001~002	1 of 1	AA	01 Jul 19	8041/□ Transition junction pole
58041.000.003~004	1 of 1	AA	01 Jul 19	8041/□ Transition Junction pole
8804.000.002~003	1 of 1	AA	01 Jul 19	8041/□Screw
88041.000.001	1 of 1	AA	01 Jul 19	8041 Transition nuts
88041.000.006	1 of 1	AA	01 Jul 19	8041/2 Connect the copper pieces
88041.000.004	1 of 1	AA	01 Jul 19	8041/1 Connect the copper pieces

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
 Email: ukinfo@csagroup.org
 Web: www.csagroupuk.org