



EC TYPE-EXAMINATION CERTIFICATE

Component intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

Certificate Number: **Sira 15ATEX3333U** Issue: **0**

Component: **Operator Heads, described by CZ as P□K□L□ Operation Heads**

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

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

This component 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 Article 9 of Directive 94/9/EC of 23 March 1994, 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/A11:2013 EN 60079-7:2007 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 special conditions for safe use are listed in the schedule to this certificate.

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 manufacture and supply of this component.

The marking of the component shall include the following:



II 2G
Ex e IIC Gb
Ex tb IIIC Db

Project Number 70044585

C Ellaby
Deputy Certification Manager

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



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 15ATEX3335U

Issue 0

13 DESCRIPTION OF COMPONENT

These Operator Heads, described by CZ as **P□K□L□** Operation Heads, are certified as Ex components. They are intended to be used as an operator interface with ATEX certified components that are either Ex d (flameproof) or Ex ia or Ex ib (intrinsically safe). They are designed to be fitted through the enclosure wall and provide IP66 (Ingress Protection). The devices are manufactured from various types of plastic, but they may also incorporate some metallic parts.

The model designator code and product name are listed as below:

Model designator code	Product name
P1	P1 Operation Head of silicone rubber sheath button
P2	P2 Operation Head of silicone rubber sheath button
P3	P3 Operation Head of emergency push-pulling button
P4□	P4BL Operation Head of mushroom Head button
	P4R Operation Head of mushroom Head button
	P4G Operation Head of mushroom Head button
P6	P6 Emergency Stop Rotation-Releasing operation Head
P7	P7 Emergency Stop Rotation-Releasing operation Head
Y1□	Operation Head of button with key, included Y11: Lock at the initial position Y12: Rotate the key and press it, lock at the press down position, can withdraw the key from the initial position.
Y2□	Emergency Stop Key-Releasing Operation Head, included: Y21: Press by manual ,release by the key; after pressing down , withdraw the key Y22: Withdraw the key from the initial position
Y5□	Operation Head of key switch, included Y51 and Y52 two types.
Y6□	Operation Head of key switch, included Y61 and Y62 two types.
H1□	Operation Head of H1□ 4-poles Switch, included H11 and H12 two type
K4□	Operation Head of switch, included K41 and K42 two types
K5□	Operation Head of switch, included K51 and K52 two types
K6□	Operation Head of switch, included K61 and K62 two types
K8□	Operation Head of switch, included K81 and K82 two types
S4□	Operation Head of switch, included S41 and S42 two types
S5□	Operation Head of switch, included S51 and S52 two types
S6□	Operation Head of switch, included S61 and S62 two types
S8□	Operation Head of switch, included S81 and S82 two types
L□	Cover of signal lamp LR: Red , LG: Green ; LY: Yellow; LW: White ; LB: Blue
P□	Operation Head of Signal lamp with button PR: Red , PG: Green ; PY: Yellow; PW: White ; PB: Blue
B1	B1 Stop Plug of Operation Head
DW□	Operation Head of potentiometer setting, included DW1 and DW2 two types
EXM	EXM Calotte EXM

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



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 15ATEX3335U
Issue 0

The following accessories are optional for all the devices listed above:

Model designator code	Product name
4019	4019/1-6 Safe Latch 4019/2-6 Safe Latch 4019/3-6 Safe Latch 4019/4-6 Safe Latch 4019/1-7 Safe Latch 4019/2-7 Safe Latch 4019/3-7 Safe Latch 4019/4-7 Safe Latch 4019/5 Safe Latch

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	# December 2015	R70044585A	The release of prime certificate.

14.3 Certificate number Sira 02ATEX3081U Issue 3

15 SPECIAL CONDITIONS FOR SAFE USE

- 15.1 These Ex component are suitable for a temperature range of between -40°C to +65°C (the 20K reduction required by clause 7.2.2 of EN 60079-0 has been taken into account)
- 15.2 When installed in a dust application, if a clearance hole is used for the mounting of the operation head, it shall have a diameter no greater than 0.7mm more than the largest normal thread size of the operation head being used.
- 15.3 The EXM calotte (glass window) and series 4019 accessories present a potential electrostatic hazard and as such shall be fitted to fixed installations only to allow it to comply with EN 60079-0:2012: Clause 7.4.2 (e). They shall only be cleaned with a damp cloth, and sited away from any static charging methods e.g. near forced air movement or where they can be easily be rubbed by passers-by.
- 15.4 The P□K□L□ Series Operation Heads use plastic materials in their construction and bear a static warning label. However, because these products are small in size, it is judged that they should not present a static hazard in normal use but the risk of static must be considered when these Operation Heads are incorporated into equipment.
- 15.5 Non-light transmitting P□K□L□ Series Operation Heads must only be fitted in low impact risk areas.
- 15.6 The P□K□L□ Series Operation Heads must be sited away from any heating or cooling which are outside of the service temperature range of -40°C to +65°C.
- 15.7 The Button Lock or 455 Lock core of Y0, Y1, Y2, Y5, Y6 Operator heads and 304 stainless steel plate, screws and safety latch of 4019 accessories are accessible metal part, when Y0, Y1, Y2, Y5, Y6 and 4019 accessories installed on enclosure, the capacitance of these metal part must be tested according to 26.14 of EN60079-0, the permitted maximum capacitance of unearthed of each accessible metal parts is 3 pF. If the capacitance exceeded 3 pF, the value of measured capacitance should be specified in the specific condition of use of the enclosure to allow the user determine suitability.

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



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 15ATEX3335U

Issue 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 CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

Draft

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

Certificate Annexe

Certificate Number: Sira 15ATEX3333U

Component: TD Unit

Applicant: CZ Explosion-Proof Electric Appliances Co. Ltd

Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
5P1.000.000	1 of 1	AC	24 Nov 15	P1 Operation Heads of silicone rubber sheath button
5P2.000.000	1 of 1	AC	24 Nov 15	P2 Operation Heads of silicone rubber sheath button
5P3.000.000	1 of 1	AC	24 Nov 15	P3 Operation Heads of emergency stop pull release button
5P4.000.000~002	1 of 1	AC	24 Nov 15	P4 Operation Heads (Described by CZ as Operation heads) of button of mushroom head
2P6.001.000	1 of 1	AC	24 Nov 15	P6 Operation Heads of emergency stop twist release button
2P7.001.000	1 of 1	AC	24 Nov 15	P7 Operation Heads of emergency stop twist release button
2Y0.000.000	1 of 1	AC	24 Nov 15	Y0 Operation Heads of button of red mushroom button head with key
2Y1.000.000	1 of 1	AC	24 Nov 15	Y1 Operation Heads of button with key
2Y2.000.000	1 of 1	AC	24 Nov 15	Y2 Operation Heads of emergency stop key release button
2Y5□.001.000	1 of 1	AC	24 Nov 15	Y5□Operation Heads of switch with key
2Y6□.001.000	1 of 1	AC	24 Nov 15	Y6□Operation Heads of switch with key
8K4.010.000	1 of 1	AC	09 Dec 15	Self-reset mechanism
8K5.010.000	1 of 1	AC	09 Dec 15	Self-lock 60° mechanism
8K6.010.000	1 of 1	AC	09 Dec 15	Self-lock 90° mechanism
5Y0.000.000	1 of 1	AC	09 Dec 15	Y000.001 button lock
5Y1.000.000	1 of 1	AC	09 Dec 15	Y100.001 button lock
8Y51.000.003	1 of 1	AC	09 Dec 15	455 Lock core
5K4.000.000	1 of 1	AC	24 Nov 15	K4□ operator
5K5.000.000	1 of 1	AC	24 Nov 15	K5□ Operation Heads
5K6.000.000	1 of 1	AC	24 Nov 15	K6□ Operation Heads
5K8.000.000	1 of 1	AC	24 Nov 15	K8□ Operation Heads
5S4.000.000	1 of 1	AC	24 Nov 15	S4□ Operation Heads
5S5.000.000	1 of 1	AC	24 Nov 15	S5□ Operation Heads
5S6.000.000	1 of 1	AC	24 Nov 2015	S6□ Operation Heads
5S8.000.000	1 of 1	AC	24 Nov 15	S8□ Operation Heads
5H1.000.000	1 of 1	AC	24 Nov 15	H1□ Operation Heads
5L1.000A.000	1 of 1	AC	24 Nov 15	L□ Cover of signal lamp
5PL.000.000A	1 of 1	AC	24 Nov 15	P□ Signal lamp with button
5DW.000.000	1 of 1	AC	24 Nov 15	DW□ Operation Heads
5B1.000.000	1 of 1	AC	24 Nov 15	B1 Stop plug of operation head
5EXM.000.000	1 of 1	AC	24 Nov 15	EXM Glass Window
24019.000.000	1 of 1	AC	24 Nov 15	4019/1-6 Safety latch
24019.001.000	1 of 1	AC	24 Nov 15	4019/1-7 Safety latch
24019.002.000	1 of 1	AC	24 Nov 15	4019/2-6 Safety latch
24019.003.000	1 of 1	AC	24 Nov 15	4019/2-7 Safety latch
24019.004.000	1 of 1	AC	24 Nov 15	4019/3-6 Safety latch
24019.005.000	1 of 1	AC	24 Nov 15	4019/3-7 Safety latch
24019.006.000	1 of 1	AC	24 Nov 15	4019/4-6 Safety latch
24019.007.000	1 of 1	AC	24 Nov 15	4019/4-7 Safety latch
24019.008.000	1 of 1	AC	24 Nov 15	4019/5 Safety latch

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