

1 **EC TYPE EXAMINATION CERTIFICATE**

2 Equipment or protective system intended for use in potentially explosive atmospheres –
Directive 94/9/EC – Annex III

3 EC Type Examination **TRAC12ATEX0032U**
Certificate No.:

4 Component: **Flameproof Operators, KS, KSS, PB, PBJ, SP, SS1 and SS2**

5 Manufacturer: **JCE (Europe) Ltd.,**

6 Address: **East Way, Lee Mill Industrial Estate, Ivybridge, Devon, PL21 9LL,
United Kingdom**

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

8 TRaC Global Ltd, Notified Body number 0891 in accordance with Article 9 of the Council 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 or protective system intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential report **TES-004532-33-00A**.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in section 18 of the schedule to this certificate, has been assured by compliance with:

EN 60079-0:2009

EN 60079-1:2007

EN 60079-31:2009

10 The sign “U” placed after the certificate number indicates that this certificate describes components and must not be mistaken for a certificate intended for an equipment or protective system. This EC-Type Examination certificate may be used as the basis for certification for an equipment or protective system.

11 This EC-Type Examination certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of this equipment or protective system shall include the following:

 **II 2 G Ex d IIC Gb**

II 2 D Ex tb IIIC Db

This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the TRaC Ex Certification Scheme.

S.P. Winsor

S P Winsor, Certification Officer

Issue date: 2012-07-09

Copy No.: 1e

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13 **SCHEDULE TO EC TYPE EXAMINATION CERTIFICATE**

14 **TRAC12ATEX0032U**

15 **General description of equipment or protective system included within the scope of this certificate**

The JCE component operators are component devices designed for use within approved equipment enclosures. They consist of a range of operators of varying types manufactured mainly from stainless steel. Plastic materials and aluminium alloy are used for a range of handles and button caps.

The operators have M20 or M25 threaded bodies with locking rings (fitted internal to the final enclosure).

The equipment was evaluated for use with gas group IIC and dust group IIIC, within a temperature range of -40°C to +60°C.

The range assessed consists of the following:

Type KS (E-stop switch);

Type KSS (E-stop switch);

Type SP (E-stop switch);

Type PB (Push button);

Type PBJ (Push button);

Type SS1 (Rotary switch);

Type SS2 (Rotary 'lockout switch').

A list of controlled Manufacturer's Documents is given in Appendix A to this schedule.

16 **Test report No.:** **TES-004532-33-00A.**

17 **"Schedule of Limitations" for Ex Components, if any:**

1. The operators are designed to be used in an ambient temperature range of -40°C to +60°C.
2. The operators shall only be used in conjunction with enclosures that have a reference pressure of \leq 15bar.

18 **Essential health and safety requirements**

Covered by application of the standards listed in section 9 of this certificate and the assessment conducted in the test report listed in section 16 of this certificate.

19 **Additional information**

"Routine tests", if any:

None.

"Special conditions for manufacture", if any:

None.

Other information, if any:

None.

CONTINUATION OF SCHEDULE TO CERTIFICATE TRAC12ATEX0032U

Photographs

SS1 – Rotary Switch



SS2 – Lockout Switch



KS - Keyswitch



PBJ – Push Button




PB – Push Button



SP – E-Stop switch



Details of markings

*JCE UK 051B  II 2 G Ex d IIC Gb/II 2 D Ex tb IIIC Db
TRAC 12ATEX0032U IECEX TRC 12.0013U*
AND TYPE IDENTIFICATION TO BE MARKED ON FACE 'A'
AND/OR FACE 'B' USING DIRECT MARKING

Details of variations to this certificate

- None.

Notes to CE marking

In respect of CE Marking, TRaC Global Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

CONTINUATION OF SCHEDULE TO CERTIFICATE TRAC12ATEX0032U

Notes to this certificate

TRaC certification reference: **TES-004532-32-00**.

Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.



APPENDIX A - LIST OF CONTROLLED MANUFACTURER'S DOCUMENTS

Title:	Drawing No.:	Rev. Level:	Date:
Certification Drawings for KS/PB/PBJ/SP/SS Series operators to Ex d IIC	A3C-3007 (5 pages)	1	2012-07-03
KS/PB/PBJ/SP/SS Series operators Installation and maintenance information	*	1	2012-06-01

* no information provided

