

1 EU - TYPE EXAMINATION CERTIFICATE

2 Component Intended for use on/in an Product or Protective System Intended for use in Potentially Explosive Atmospheres

Directive 2014/34/EU – Annex III

3 EU - Type Examination Certificate No.: **TRAC12ATEX0032U (incorporating variation V1)**

4 Product: **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 product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Element Materials Technology, Notified Body number 2812, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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 has been assured by compliance with:

EN 60079-0:2009

EN 60079-1:2007

EN 60079-31:2009

Except in respect of those requirements listed at section 18 of the schedule.

10 The sign “U” is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as the basis for certification of an equipment or protective system.

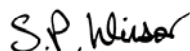
11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product 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 Element Materials Technology Ex Certification Scheme.



S P Winsor, Certification Manager

Issue date: 2019-11-01

Page 1 of 5

CSF355-NL 1.0

13 SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

14 CERTIFICATE NUMBER TRAC12ATEX0032U (incorporating variation V1)

15 Description of Product

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').

16 Test Report No. (as added for this issue of the certificate): N/A

17 Schedule of Limitations

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 ≤ 15 bar.



Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.

18 Essential Health and Safety Requirements (Directive Annex II)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

19 Drawings and Documents

The list of controlled technical documentation is given in Appendix A to this schedule.

20 Routine Tests

None.

21 Specific Conditions for Manufacture

None.

SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

CERTIFICATE NUMBER TRAC12ATEX0032U (incorporating variation V1)

22 Photographs

SS1 – Rotary Switch



SS2 – Lockout Switch



KS - Keyswitch



PBJ – Push Button



PB – Push Button



SP – E-Stop switch



23 Details of Markings

JCE UK XXXX  II 2 G Ex d IIC Gb/II 2 D Ex tb IIIC Db
XXXX TRAC 12ATEX0032U IECEX TRC 12.0013U

24 Details of Variations to this Certificate

This certificate is a consolidated certificate and reflects the latest status of the certification, including the following variations:

- Variation V1 - This certificate was originally issued by Notified Body number 0891 under Directive 2014/34/EU. The technical file has been transferred to Element Notified Body number 2812 without further assessment or evaluation.

25 Notes to CE marking

In respect of CE Marking, Element Materials Technology accepts no responsibility for the compliance of the product against all applicable Directives in all applications.

26 Notes to this certificate

Element Materials Technology certification reference: **JCEQ-0008**.

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

Notified Body number 2812 is the designation for Element Materials Technology Rotterdam BV.

SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

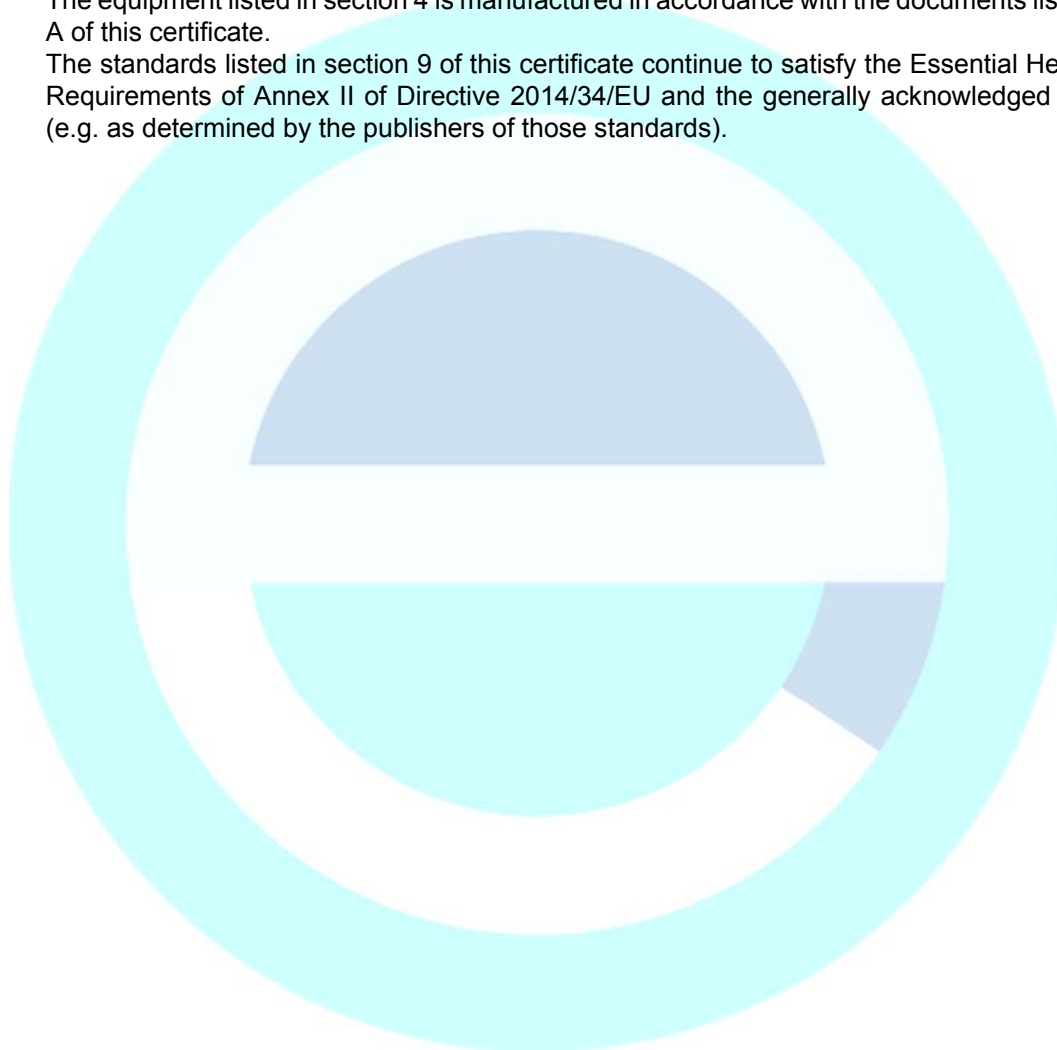
CERTIFICATE NUMBER TRAC12ATEX0032U (incorporating variation V1)

In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variation certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

27 Conditions for the validity of this certificate

This certificate remains valid for so long as:

- (i) The equipment listed in section 4 is manufactured in accordance with the documents listed in Appendix A of this certificate.
- (ii) The standards listed in section 9 of this certificate continue to satisfy the Essential Health and Safety Requirements of Annex II of Directive 2014/34/EU and the generally acknowledged state of the art (e.g. as determined by the publishers of those standards).



SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE**CERTIFICATE NUMBER TRAC12ATEX0032U (incorporating variation V1)****APPENDIX A - TECHNICAL 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
Operator series component marking detail	A3C-3025	1	2019-10-11

* no information provided