



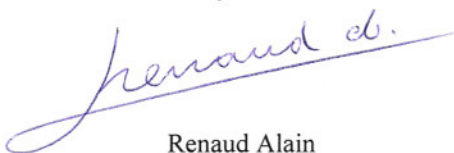
- (1) EC TYPE EXAMINATION CERTIFICATE
- (2) **Equipment or protective system intended for use
in potentially explosive atmospheres
Directive 94/9/EC**
- (3) EC type examination certificate number: **ISSeP03ATEX029**
- (4) Equipment : Control and instrument housing – series EJBC**
- (5) Applicant : JCE (Europe) Ltd
Address: East Way, Lee Mill Industrial Estate
(applicant) Ivybridge, Devon PL21 9LL
England
- Manufacturer : JCE Group
- (7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) ISSeP, notified body n° 492 in accordance with article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in annex II to the Directive.
- The examination and test results are recorded in confidential report n° 02099
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1997 + A1 and A2 : 1999 EN 50281-1-1 : 1998 EN 50018: 2000 and pr AA EN50018
- (10) If the symbol "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate
- (11) This EC TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of this Directive may apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- (12) The marking of the equipment or protective system shall include the following indications:



II 2 G D

EEx d IIB T6 or EEX d IIB T5
IP66

Colfontaine, the 04.04.2003



Renaud Alain
Manager of Colfontaine division

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B-7340 COLFONTAINE (Wasmès)
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(13)

SCHEDULE

(14)

EC TYPE EXAMINATION CERTIFICATE N^R ISSeP03ATEX029

(15) Description of the equipment :

Rectangular control and instrument housing composed of a body and a lid.

The lid may be provided with a circular or rectangular window.

This housing contains the equipment listed in the drawings A3C-2945 sheets 1 to 4 , inclusive .

The type designation of the housing: EJBC10, 15

EJBC1, 2, 3, 4; EJBC3R, 4R

EJBC3A, 4A, 5A, 3AC, 4AC, 5AC, 3RA, 4RA, 5RA, 5RA, 3RAC, 4RAC, 5RAC

EJBSC1, 2; EJBSHC1, 2; EJBXC2, EJBXWC2

EJBHC3A, 3AC, 3RA, 3RAC, 31A, 31AC, 31RA, 31RAC, 4A, 4AC, 4RA, 4RAC, 5A, 5AC, 5RA, 5RAC

EJBWHC3A, 4A, 3AC, 4AC, 3RA, 4RA, 3RAC, 4RAC

EJBWVC4A, 4AC, 4RA, 5A, 5AC, 5RA, 5RAC

EJBWLC4A, 4AC, 4RA, 4RAC

EJBWMC4A, 4AC, 4RA, 4RAC.

Electrical characteristics

Voltage: max. 11 kV

Current: max. 1500 A

Maximum power dissipated inside the box and temperature classes

EJBC1	T5 – 50W	T6 – 20W
EJBC2	T5 – 50W	T6 – 35W
EJBSC1	T5 – 50W	T6 – 20W
EJCSC2*	T5 – 50W	T6 – 35W
EJBC3*	T5 – 100W	T6 – 50W
EJB*C4*	T5 – 100W	T6 – 50W
EJB*C5*	T5 – 350W	T6 – 90W
EJBC10/15	T5 – 20W	T6 – 20W

Eventual prescriptions

The connectors used for the connection of the apparatus shall ensure the degree of protection IP66 of the enclosure.

Routine tests

The manufacturer shall perform the routine verifications and tests necessary to ensure that the apparatus complies with the specification submitted to the testing station with the prototype. Moreover each empty enclosure shall be submitted to a routine test under the pressure of 11.7 bar.

SCHEDULE

EC TYPE EXAMINATION CERTIFICATE N^R ISSeP03ATEX029

Marking

- The name of the manufacturer or his registered trade mark.
- The manufacturer's type identification.
- The code: EEx d IIB T6 or EEX d IIB T5
- The serial number.
- The indication of the testing station, followed by the certification number.
- The temperature range. " " $-20^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$ " when using an EJBSC1 enclosure with 2.64W power dissipation for the temperature class T6.
- The additional marking.
 - "Do not open while energised"
 - "Do not operate under load"
 - "After de-energisation wait 15 minutes before opening the enclosure "
 - "Use conductors suitable for a temperature of 100°C " for the temperature class T5
 - "Do not open when an explosive gas atmosphere may be present " when using batteries or cells, in place of time delay label.

- (16) Report n^r 02099 dated 04.04.2003 composed of 21 pages in total.
The instruction note from the manufacturer " Installation and maintenance Information" (2 sheets).
The drawings
A3C-2945 issue 3 of 03.04.2003 (4 sheets)
The certificate BAS02ATEX2278U – "Trolex connector" type TX3700.SS
The certificate BAS02ATEX2281U and its variation 1 – "Trolex connector" type TX3701.SS
- (17) Special conditions for safe use: None.
- (18) Essential Health and Safety Requirements: covered by the standards listed at (9), by the document pr AA EN 50018 and the indications of the manufacturer in the descriptive documents.

VARIATION

EC TYPE EXAMINATION CERTIFICATE N° ISSeP03ATEX029/1

(14) Equipment : Control and instrumentation housings
Types EJBS C1, EJBS(H)C2, EJB(WH)C4(R)A(C)

(15) Subject to the variation :

The housing here-above referenced may be used within the ambient temperatures ranges:

$-40^{\circ}\text{C} \leq \text{Tamb} \leq +75^{\circ}\text{C}$ for T6

$-40^{\circ}\text{C} \leq \text{Tamb} \leq +90^{\circ}\text{C}$ for T5

provided that the powers dissipated inside the housings EJB(WH)C4* & EJBS(H)C2 and EJBS C1 don't respectively exceed 12.5 W & 7 W and 2.6 W.

The flameproof properties of the apparatus remain unchanged

Marking : Unchanged except the ambient temperatures ranges

Eventual Prescriptions :

The ambient temperatures ranges : $-40^{\circ}\text{C} \leq \text{Tamb} \leq +75^{\circ}\text{C}$ (temperature class T6)

$-40^{\circ}\text{C} \leq \text{Tamb} \leq +90^{\circ}\text{C}$ (temperature class T5)

(16) Report n° 03240 of 16.12.2003 (10 pages) completed by the descriptive documents below :

The documents from the manufacturer reference: TR-1/03 & TR-2/03 & TR-S170 (8 pages)

The drawings

A3C-2955 issue 2 of 27.11.2003

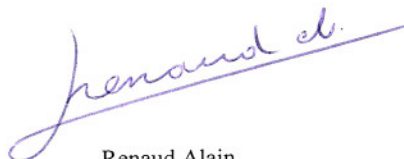
A3C-7230 issue 2 of 27.11.2003 (2 sheets)

A3C-7345 issue 2 of 27.11.2003

(17) Special conditions for safe use : None

(18) Essential Health and Safety Requirements : covered by the standards listed at point 9 of the initial certificate and by the descriptive documents from the manufacturer.

Colfontaine, 19.12.2003.



Renaud Alain,
Directeur du site de Colfontaine.

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This document may not be used without the original certificate