



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEX SIR 09.0121X

Issue No: 4

Certificate history:

Status: **Current**

Issue No. 4 (2017-11-17)

Issue No. 3 (2016-06-17)

Date of Issue: **2017-11-17**

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Issue No. 2 (2012-02-24)

Issue No. 1 (2011-12-23)

Issue No. 0 (2009-12-11)

Applicant: **European Safety Systems Limited**  
Impress House, Mansell Road  
Acton, London W3 7QH  
**United Kingdom**

Equipment: **BE<sub>x</sub>CP3A, BE<sub>x</sub>CP3B, BE<sub>x</sub>CP3C, GNE<sub>x</sub>CP6A, GNE<sub>x</sub>CP6B and GNE<sub>x</sub>CP6C. Manual Call Points**

Optional accessory:

Type of Protection: **Increased safety, flameproof, encapsulation and dust**

Marking:

BE<sub>x</sub>CP3A and GNE<sub>x</sub>CP6A Call Points:  
Ex e d IIC T6 Gb (-40°C ≤ Ta ≤ +55°C)  
Ex tb III C T60°C Db (-40°C ≤ Ta ≤ +55°C)  
Refer to the Annexe for Additional Models

Approved for issue on behalf of the IECEX  
Certification Body:

C Ellaby

Position:

Deputy Certification Manager

Signature:  
(for printed version)

Date:

2017-11-17

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

**SIRA Certification Service**  
CSA Group  
Unit 6, Hawarden Industrial Park  
Hawarden, Deeside, CH5 3US  
United Kingdom

**sira**  
CERTIFICATION





# IECEX Certificate of Conformity

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Manufacturer: **European Safety Systems Limited**  
Impress House  
Mansell Road  
Acton  
London W3 7QH  
**United Kingdom**

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2007-10</b> Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
<b>IEC 60079-18 : 2009</b> Edition:3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2006-07</b> Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

#### Test Report:

GB/SIR/ExTR09.0195/00	GB/SIR/ExTR11.0326/00	GB/SIR/ExTR11.0326/01
GB/SIR/ExTR16.0151/00	GB/SIR/ExTR17.0236/00	

#### Quality Assessment Report:

GB/SIR/QAR06.0020/01



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The BExCP3A, BExCP3B, GNECP6A and GNECP6B Manual Call Points are fully described in the Annexe to this certificate.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The terminals shall be fitted only with wires that have a cross sectional area falling within the following limitations:

BExCP3A and GNECP6A Call Points fitted with Weidmuller terminal strip; 0.5mm<sup>2</sup> to 4mm<sup>2</sup>  
BExCP3A and GNECP6A Call Points fitted with Phoenix terminal strip; 0.2mm<sup>2</sup> to 4mm<sup>2</sup>  
BExCP3B and GNECP6B Call Points fitted with Weidmuller terminal strip; 0.5mm<sup>2</sup> to 4mm<sup>2</sup>  
BExCP3B and GNECP6B Call Points fitted with Phoenix terminal strip; 0.2mm<sup>2</sup> to 4mm<sup>2</sup>  
BExCP3B and GNECP6B Call Points fitted with Weidmuller rail mounted terminals; 0.5mm<sup>2</sup> to 4mm<sup>2</sup>  
BExCP3C and GNECP6C Call Points fitted with Weidmuller terminal strip; 0.5mm<sup>2</sup> to 4mm<sup>2</sup>  
BExCP3C and GNECP6C Call Points fitted with Phoenix terminal strip; 0.2mm<sup>2</sup> to 4mm<sup>2</sup>  
BExCP3C and GNECP6C Call Points fitted with Weidmuller rail mounted terminals; 0.5mm<sup>2</sup> to 4mm<sup>2</sup>

Refer to the Annexe for Conditions 2, 3, 4 5, 6 and 7.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

**This issue, Issue 4, recognises the following changes; refer to the certificate annex to view a comprehensive history:**

1. The introduction of the BExCP3C-BG, BExCP3C-PB, BExCP3C-PT, GNEExCP6C-BG, GNEExCP6C-PB & GNEExCP6C-PT Manual Call Points. The description, Specific Conditions of Use and Conditions of Manufacture were amended accordingly.
2. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 61241-1:2004 was replaced by IEC 60079-31:2013. The marking has been updated in accordance with the latest standard

### Annex:

[IECEX SIR 09-0121X Annexe Issue 4.pdf](#)

**Annexe to:** IECEx SIR 09.0121X Issue 4

**Applicant:** European Safety Systems Limited

**Apparatus:** BExCP3A, BExCP3B, GNExCP6A and GNExCP6B Manual Call Points



The Full range of models and their marking are shown below:

**BExCP3A Call Points:**

Ex e d IIC T6 Gb (-40°C ≤ Ta ≤ +55°C)

Ex tb III C T60°C Db (-40°C ≤ Ta ≤ +55°C)

**BExCP3B Call Points:**

Ex e d mb IIC T4 Gb (-40°C ≤ Ta ≤ +50°C)

Ex tb III C T70°C Db (-40°C ≤ Ta ≤ +50°C)

**GNExCP6A Call Points:**

Ex e d IIC T6 Gb (-40°C ≤ Ta ≤ +55°C)

Ex tb III C T60°C Db (-40°C ≤ Ta ≤ +55°C)

**GNExCP6B Call Points:**

Ex e d mb IIC T4 Gb (-40°C ≤ Ta ≤ +50°C)

Ex tb III C T80°C Db (-40°C ≤ Ta ≤ +50°C)

**BExCP3C Call Points:**

Ex e d mb IIC T4 Gb Ta = -40°C to +55°C

Ex tb IIIC T70°C Db Ta = -40°C to +55°C

**GNExCP6C Call Points:**

Ex e d mb IIC T4 Gb Ta = -40°C to +55°C

Ex tb IIIC T80°C Db Ta = -40°C to +55°C

The equipment is a range of manual call points, as described below:

Model	Description of Enclosure	Mode of Operation	Contents Includes
BExCP3A-BG	Aluminium enclosure fitted with a glass window	Break glass	'Ex d' switch
BExCP3A-PB	Aluminium enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	'Ex d' switch <b>And up to two of the following:</b> Resistor Module Diode Module Zener Diode Module
BExCP3A-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	
BExCP3B-BG	Aluminium enclosure fitted with a glass window	Break glass	
BExCP3B-PB	Aluminium enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	'Ex d' switch <b>And up to two of the following:</b> Resistor Module Diode Module Zener Diode Module
BExCP3B-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	

**Annexe to:** IECEx SIR 09.0121X Issue 4

**Applicant:** European Safety Systems Limited

**Apparatus:** BExCP3A, BExCP3B, GNECP6A and GNECP6B Manual Call Points



Model	Description of Enclosure	Mode of Operation	Contents Includes
BExCP3C-BG	Aluminium enclosure fitted with a glass window	Break glass	'Ex d' switch (S) – up to two Resistor Modules (1W each)
BExCP3C-PB	Aluminium enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	
BExCP3C-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	
GNECP6A-BG	Plastic enclosure fitted with a glass window	Break glass	'Ex d' switch (S) – up to two
GNECP6A-PB	Plastic enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	
GNECP6A-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	
GNECP6B-BG	Plastic enclosure fitted with a glass window	Break glass	'Ex d' switch (S) – up to two <b>And up to two of the following:</b> Resistor Module Diode Module Zener Diode Module <b>Or one of the following:</b> Resistor Module Diode Module Zener Diode Module <b>With one:</b> LED Indicator Assembly
GNECP6B-PB	Plastic enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	
GNECP6B-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	
GNECP6C-BG	Plastic enclosure fitted with a glass window	Break glass	'Ex d' switch (S) – up to two Resistor Modules (1W each) OR LED indicator assembly (1W)
GNECP6C-PB	Plastic enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	
GNECP6C-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	

**Annexe to:** IECEx SIR 09.0121X Issue 4  
**Applicant:** European Safety Systems Limited  
**Apparatus:** BExCP3A, BExCP3B, GNExCP6A and GNExCP6B Manual Call Points



In all cases, external connections are made via 'Ex e' terminals mounted within the enclosure, the cables entering the enclosure via certified cable glands.

The following ratings are applicable:

BExCP3A Range of Call Points	BExCP3B Range of Call Points
AC Voltage 250V Max Current 5A Max	Voltage #V DC Max Current #A Max
DC Voltage 50V Max Current 1A Max	(# Due to the large number of options, it is not practical to detail a full list of available values, therefore, the manufacturer marks the actual figures applicable to each specific device on the product label in accordance with their drawings)
GNExCP6A Range of Call Points	GNExCP6B Range of Call Points
AC Voltage 250V Max Current 5A Max	Voltage #V DC Max Current #A Max
DC Voltage 50V Max Current 1A Max	(# Due to the large number of options, it is not practical to detail a full list of available values, therefore, the manufacturer marks the actual figures applicable to each specific device on the product label in accordance with their drawings)

**Additional Specific Conditions of Use:**

2. The following apply to the Call Points fitted with Phoenix Terminals:  
 The number of conductors per clamping shall be either 1 conductor per clamping unit, 0.2 – 4 sq mm or 2 conductors with the same cross section and the same conductor type 0.2 – 1.5 sq mm. If 2 conductors are fitted in one clamping unit they may be joined in a suitable manner, e.g. two conductors into a single insulated crimped boot lace ferrule.
3. The following apply to the Call Points fitted with Weidmuller Terminals:
  - Not more than one single or multiple strand lead shall be connected to a terminal, unless multiple conductors have been joined in a suitable manner, e.g. two conductors into a single insulated crimped boot lace ferrule.
  - Leads connected to the terminals shall be insulated for the appropriate voltage and this insulation shall extend to within 1mm of the metal of the terminal throat.
  - During installation, the terminals shall be only wired with cable in an ambient temperature range between -10°C to 80°C.
4. All terminal screws, used or unused, shall be fully tightened down.
5. The GNExCP6 Call Points are supplied with M20 threaded entries, the BExCP3 Call Points have plain, M20 holes. All of these shall be fitted with either a cable gland or certified blanking element that is suitable for the application and has been certified by a notified body. These shall provide and maintain a minimum enclosure ingress protection of IP66.
6. For BExCP3B and GNExCP6B Call Points that have a maximum rated current marked, the prospective short-circuit current of the circuit connected shall be limited to the marked rated current.
7. The enclosure of the GNExCP6 Call Points is non-conducting and may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.

**Annexe to:** IECEx SIR 09.0121X Issue 4  
**Applicant:** European Safety Systems Limited  
**Apparatus:** BExCP3A, BExCP3B, GNExCP6A and GNExCP6B Manual Call Points



## Conditions of manufacture

The Manufacturer shall comply with the following:

1. All complete BExCP3B-BG, BExCP3B-PB, BExCP3B-PT, BExCP3C-BG, BExCP3C-PB and BExCP3C-PT manufactured units shall be subjected to a routine dielectric strength test of 500V r.m.m. a.c. applied for 1 s or 600V r.m.s. a.c. applied for 100 ms between all terminals and the equipment enclosure, in accordance with clause 9.2 of IEC 60079-18:200.
2. All completed resistor modules, diode modules, zener diode modules and LED indicator encapsulated assemblies shall be subjected to a visual inspection on the encapsulation in accordance with Clause 9.1 of IEC 60079-18:2009. No damage shall be evident such as cracks in the compound, exposure of the encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.
3. The products covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of their products.

## Full Certificate Change History

**Issue 1** – this Issue introduced the following change:

- 1 The introduction of type GNExCP6A-BG, GNExCP6A-PB, GNExCP6A-PT, GNExCP6B-BG, GNExCP6B-PB and GNExCP6B-PT Manual Call Points; these utilise a plastic enclosure and house an extended range of optional modules.

**Issue 2** – this Issue introduced the following change:

- 1 Sira free report no. R25199A/01 replaced R25199A/00.

**Issue 3** – this Issue introduced the following change:

- 1 To allow the use of diode and Zener diode packs (as used in the GNExCP6 Call Point to this certificate) with the BExCP3B Call Point; and revisions to the relevant controlled drawings to support this. The description was amended accordingly.

**Issue 4** – this Issue introduced the following changes:

- 1 The introduction of the BExCP3C-BG, BExCP3C-PB, BExCP3C-PT, GNExCP6C-BG, GNExCP6C-PB & GNExCP6C-PT Manual Call Points. The description, Specific Conditions of Use and Conditions of Manufacture were amended accordingly.
- 2 Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 61241-1:2004 was replaced by IEC 60079-31:2013. The marking has been updated in accordance with the latest standard.

**Date:** 17 November 2017

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**Form 9530 Issue 1**

## Sira Certification Service

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