



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx SIR 09.0121X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 5	Issue 4 (2017-11-17)
Date of Issue:	2020-01-06		Issue 3 (2016-06-17)
			Issue 2 (2012-02-24)
			Issue 1 (2011-12-23)
			Issue 0 (2009-12-11)
Applicant:	European Safety Systems Limited Impress House, Mansell Road Acton, London W3 7QH United Kingdom		
Equipment:	BExCP3A, BExCP3B, BExCP3C, BExCP3D, GNExCP6A, GNExCP6B, GNExCP6C, GNExCP6D Manual Call Points		
Optional accessory:			
Type of Protection:	Increased safety, flameproof, encapsulation and dust		
Marking:	BExCP3A and GNExCP6A Call Points: Ex eb db IIC T6 Gb Ta = (-40°C +70°C) Ex tb III C T75°C Db Ta = (-40°C +70°C) Refer to the Annexe for Additional Models		

Approved for issue on behalf of the IECEx
Certification Body:

Neil Jones

Position:

Certification Manager

Signature:
(for printed version)

Date:

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 www.iecex.com or use of this QR Code.



Certificate issued by:

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





IECEx Certificate of Conformity

Certificate No.: **IECEx SIR 09.0121X**

Page 2 of 4

Date of issue: 2020-01-06

Issue No: 5

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

Additional
manufacturing
locations:

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 equipment 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

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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 Reports:

[GB/SIR/ExTR09.0195/00](#)
[GB/SIR/ExTR16.0151/00](#)

[GB/SIR/ExTR11.0326/00](#)
[GB/SIR/ExTR17.0236/00](#)

[GB/SIR/ExTR11.0326/01](#)
[GB/SIR/ExTR19.0331/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0020/08](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx SIR 09.0121X**

Page 3 of 4

Date of issue: 2020-01-06

Issue No: 5

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The 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 GNExCP6A Call Points fitted with Weidmüller terminal; 0.5 mm² to 4 mm²
BExCP3A and GNExCP6A Call Points fitted with Phoenix terminal; 0.2 mm² to 4 mm²
GNExCP6A Call Point fitted with Weidmüller rail mounted terminals; 0.5 mm² to 2.5 mm²
BExCP3B and GNExCP6B Call Points fitted with Weidmüller terminal; 0.5 mm² to 4 mm²
BExCP3B and GNExCP6B Call Points fitted with Phoenix terminal-0.2 mm² to 4 mm²
BExCP3B and GNExCP6B Call Points fitted with Weidmüller rail mounted terminals; 0.5 mm² to 2.5 mm²
BExCP3C and GNExCP6C Call Points fitted with Weidmüller terminal; 0.5mm² to 4mm²
BExCP3C and GNExCP6C Call Points fitted with Phoenix terminal; 0.2mm² to 4mm²
BExCP3C and GNExCP6C Call Points fitted with Weidmüller rail mounted terminals; 0.5mm² to 2.5mm²
BExCP3D and GNExCP6D Call Points fitted with Weidmüller terminal; 0.5mm² to 4mm²
BExCP3D and GNExCP6D Call Points fitted with Phoenix terminal; 0.2mm² to 4mm²
BExCP3D and GNExCP6D Call Points fitted with Weidmüller rail mounted terminals; 0.5mm² to 2.5mm²

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



IECEx Certificate of Conformity

Certificate No.: **IECEx SIR 09.0121X**

Page 4 of 4

Date of issue: 2020-01-06

Issue No: 5

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Due to the complexity please refer to the annexe for this and previous changes

Annex:

[IECEx SIR 09-0121X Annexe Issue 5.pdf](#)

Annexe to: IECEx SIR 09.0121X Issue 5

Applicant: European Safety Systems Limited

Apparatus: BExCP3A, BExCP3B, BExCP3C, BExCP3D,
GNExCP6A, GNExCP6B, GNExCP6C,
GNExCP6D Manual Call Points



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

BExCP3A Call Points:

Ex eb db IIC T6 Gb Ta = (-40°C +70°C)

Ex tb III C T75°C Db Ta = (-40°C +70°C)

BExCP3B Call Points:

Ex eb db mb IIC T4 Gb Ta = (-40°C +50°C)

Ex tb III C T60°C Db Ta = (-40°C +50°C)

BExCP3C Call Points:

Ex eb db mb IIC T4 Gb Ta = (-40°C +65°C)

Ex tb III C T75°C Db Ta = (-40°C +65°C)

BExCP3D Call Points:

Ex eb db mb IIC T4 Gb Ta = (-40°C +70°C)

Ex tb III C T80°C Db Ta = (-40°C +70°C)

GNExCP6A Call Points:

Ex eb db IIC T6 Gb Ta = (-40°C +75°C)

Ex tb III C T75°C Db Ta = (-40°C +75°C)

GNExCP6B Call Points:

Ex eb db mb IIC T4 Gb Ta = (-40°C +50°C)

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

GNExCP6C Call Points:

Ex eb db mb IIC T4 Gb Ta = (-40°C to +65°C)

Ex tb IIIC T75°C Db Ta = (-40°C to +65°C)

GNExCP6D Call Points:

Ex eb db mb IIC T4 Gb Ta = (-40°C to +70°C)

Ex tb IIIC T80°C Db Ta = (-40°C to +70°C)

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

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:

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	
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	'Ex d' switch And up to two of the following: Resistor Module (2W)

Annexe to: IECEx SIR 09.0121X Issue 5

Applicant: European Safety Systems Limited

Apparatus: BExCP3A, BExCP3B, BExCP3C, BExCP3D,
GNECP6A, GNECP6B, GNECP6C,
GNECP6D Manual Call Points



Model	Description of Enclosure	Mode of Operation	Contents Includes
BExCP3B-PB	Aluminium enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	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	
BExCP3C-BG	Aluminium enclosure fitted with a glass window	Break glass	'Ex d' switch
BExCP3C-PB	Aluminium enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	And up to two of the following: Resistor Module (1.75W) Diode Module Zener Diode Module
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	
BExCP3D-BG	Aluminium enclosure fitted with a glass window	Break glass	'Ex d' switch And up to two of the following: Resistor Module (1.0W) Diode Module Zener Diode Module
BExCP3D-PB	Aluminium enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	
BExCP3D-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 And up to two of the following: Resistor Module (2.0W) Diode Module Zener Diode Module With/without one: 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	

Annexe to: IECEx SIR 09.0121X Issue 5

Applicant: European Safety Systems Limited

Apparatus: BExCP3A, BExCP3B, BExCP3C, BExCP3D,
GNECP6A, GNECP6B, GNECP6C,
GNECP6D Manual Call Points



Model	Description of Enclosure	Mode of Operation	Contents Includes
GNECP6C-BG	Plastic enclosure fitted with a glass window	Break glass	'Ex d' switch (S) – up to two And up to two of the following: Resistor Module (1.75W) Diode Module Zener Diode Module
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	
GNECP6D-BG	Plastic enclosure fitted with a glass window	Break glass	'Ex d' switch (S) – up to two And up to two of the following: Resistor Module (1.0W) Diode Module Zener Diode Module
GNECP6D-PB	Plastic enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	
GNECP6D-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	

BExCP3A Range of Call Points	BExCP3B, BExCP3C and BExCP3D Range of Call Points
AC Voltage 250V Max Current 5A Max	Voltage #V DC Max Current #A Max
DC Voltage 75V Max Current 0.75A 50V Max Current 1.0A Max 30V Max Current 1.0A Max resistive load : 3.0A Inductive load 12V Max Current 5.0A 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)
GNECP6A Range of Call Points	GNECP6B, GNECP6C and GNECP6D Range of Call Points
AC Voltage 250V Max Current 5A Max	Voltage #V DC Max Current #A Max
DC Voltage 75V Max Current 0.75A 50V Max Current 1.0A Max 30V Max Current 1.0A Max resistive load : 3.0A Inductive load 12V Max Current 5.0A 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:

- 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.
- The following apply to the Call Points fitted with Weidmuller Terminals:

Date: 07 January 2020

Page 3 of 7

Form 9530 Issue 1

Sira Certification Service
Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670900
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org

Annexe to: IECEx SIR 09.0121X Issue 5
Applicant: European Safety Systems Limited
Apparatus: BExCP3A, BExCP3B, BExCP3C, BExCP3D,
GNExCP6A, GNExCP6B, GNExCP6C,
GNExCP6D Manual Call Points



- 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.

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, BExCP3D-BG, BExCP3D-PB and BExCP3D-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.
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.

Annexe to: IECEx SIR 09.0121X Issue 5
Applicant: European Safety Systems Limited
Apparatus: BExCP3A, BExCP3B, BExCP3C, BExCP3D,
GNExCP6A, GNExCP6B, GNExCP6C,
GNExCP6D Manual Call Points



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.

Issue 5 – this Issue introduced the following changes:

Microswitch (applicable to all variants)

- i. Update the equipment to permit the microswitch electrical ratings, permitted in the microswitch certificate, which introduces a 3A (maximum) inductive load in the switch;
- ii. Update the microswitch service temperature range to -50°C to +80°C, from -50°C to 65°C, as per the latest microswitch certificate;

For GNExCP6B, separate the LED indicator assembly from modules

- i. Permit the use up to 2x2W modules with LED or LED on its own. This had already been justified and included in the assessments, but now included as part of this variation;

Weidmüller DIN rail option

- i. Add Weidmüller DIN rail option to the GNExCP6 variants;

All variants

- i. Permit a change in ambient temperature range for all variants, using previous and new testing performed; The following changes are made with regards to call point variants

Date: 07 January 2020

Page 5 of 7

Form 9530 Issue 1

Sira Certification Service
Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670900
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org

Annexe to: IECEx SIR 09.0121X Issue 5
Applicant: European Safety Systems Limited
Apparatus: BExCP3A, BExCP3B, BExCP3C, BExCP3D,
GNExCP6A, GNExCP6B, GNExCP6C,
GNExCP6D Manual Call Points



Annexe to: IECEx SIR 09.0121X Issue 5
Applicant: European Safety Systems Limited
Apparatus: BExCP3A, BExCP3B, BExCP3C, BExCP3D,
GNExCP6A, GNExCP6B, GNExCP6C,
GNExCP6D Manual Call Points



Modified Version:

BExCP3C and GNExCP6C previously contained/now contains the following options:

Was:

Ex d microswitch with up to two resistor modules (1W each) OR LED indicator assembly (1W)

Is:

'Ex d' microswitch and up to two of the following:

Resistor Module (1.75W each)

Diode Module

Zener Diode Module

New variant Resistor Power Ratings:

BExCP3D and GNExCP6D has been added to include:

'Ex d' microswitch and up to two of the following:

Resistor Module (1.0W each)

Diode Module

Zener Diode Module

- ii. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2007 Ed.5, IEC 60079-1:2003 Ed.5, IEC 60079-7: 2006 Ed.4 and IEC 60079-18: 2009 Ed.3 were replaced by IEC 60079-0:2017 Ed.7, IEC 60079-1:2014 Ed.7, IEC 60079-7:2015/AMD1:2017 and IEC 60079-18:2014/AMD1:2017, the markings were updated accordingly to recognise the new standards.