

# INSTRUCTION MANUAL

## **BExCP3B-BG, BExCP3D-BG & BExCP3E-BG Break Glass Manual Call Point**

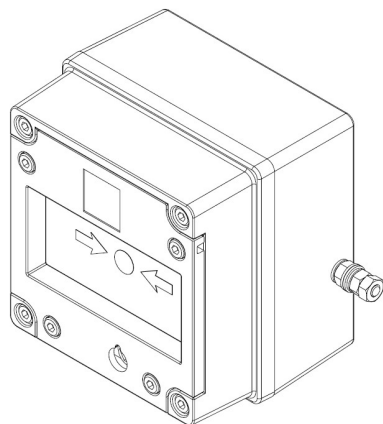
### **For use in Flammable Gas and Dust Atmospheres**

### **BExCP3B-BG, BExCP3D-BG & BExCP3E-BG**

#### **Manual Call Point – Break Glass**

#### **With Resistor Modules**

#### **For use in Flammable Gas and Combustible Dust Atmospheres.**



#### **1) Introduction**

The BExCP3B-BG / BExCP3D-BG / BExCP3E-BG is a break glass manual call point which is certified to the European and International Gas and Dust standards. The unit meets the requirements of the ATEX directive 2014/34/EU, IECEx and UKEx schemes.

The call point can be used in hazardous areas where potentially flammable gas and dust atmospheres may be present.

All units have up to two of the following series and/or EOL devices:

- Monitoring resistors per module: -
  - BExCP3B-BG - 2.0W Max
  - BExCP3D-BG - 1.0W Max
  - BExCP3E-BG - 1.75W Max
- Monitoring diode
- Monitoring Zener diode

The units are Group II, EPL (equipment protection level) Gb. The equipment is certified 'Ex db eb mb IIC T4 Gb' and as such may be used in Zones 1 and 2 with flammable gases and vapours with gas

groups IIA, IIB & IIC and temperature classes T1, T2, T3 and T4.

These units are also Group III, EPL Db. The equipment is certified  
 'Ex tb IIC T60°C Db' (BExCP3B-BG),  
 'Ex tb IIC T80°C Db' (BExCP3D-BG),  
 'Ex tb IIC T75°C Db' (BExCP3E-BG)  
 and as such may be used in Zones 21 and 22 for combustible dusts groups IIIA, IIIB & IIIC.

#### **2) Ratings & Markings**

All units have a rating label, which carries the following important information: -


Unit Type No.:  
 BExCP3B-BG Manual Call Point  
 BExCP3D-BG Manual Call Point  
 BExCP3E-BG Manual Call Point

Input Voltages  
 48VDC nominal 56VDC Max 0.75A Max  
 24VDC nominal 28VDC Max 5.0A Max Resistive Load; 3.0A Max Inductive Load  
 12VDC nominal 15VDC Max 5.0A Max  
 6VDC nominal 9VDC Max 5.0A Max


Code:  
 BExCP3B-BG  
 Ex db eb mb IIC T4 Gb  
 Ex tb IIC T60°C Db  
 IP66  
 -40°C <= Ta <= +50°C

BExCP3D-BG	BExCP3E-BG
Ex db eb mb IIC T4 Gb	Ex db eb mb IIC T4 Gb
Ex tb IIC T80°C Db	Ex tb IIC T75°C Db
IP66	IP66
-40°C <= Ta <= +70°C	-40°C <= Ta <= +65°C

Certificate No.:  
 SIRA 09ATEX3286X  
 IECEx SIR 09.0121X  
 CSAE 21UKEX3556X

Epsilon x:  II 2GD

CE Marking  
 Notified Body No.  2813

UKCA Marking  
 Notified Body No.  0518

Year/Serial No. i.e. 20/1CP3BBG000001  
 Or 20/1CP3DBG000001  
 Or 20/1CP3EBG000001

WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

#### **3) Type Approval Standards**

The call point has an EC Type examination certificate issued by SIRA and have been approved to the following standards: -

EN60079-0:2018 / IEC60079-0:2017  
 EN60079-1:2014 / IEC60079-1:2014  
 EN60079-7:2015 / IEC60079-7:2017  
 EN60079-18:2015 / IEC60079-18:2014  
 EN60079-31:2014 / IEC60079-31:2013

The equipment is certified for use in ambient temperatures in the range  
 BExCP3B-BG -40°C to +50°C  
 BExCP3D-BG -40°C to +70°C  
 BExCP3E-BG -40°C to +65°C

and shall not be used outside this range.

#### **4) Installation Requirements**

Installation of this equipment shall only be carried out by suitably trained personnel in accordance with the applicable code of practice e.g. IEC 60079-14/EN 60079-14

Repair of this equipment shall only be carried out by the manufacturer or in accordance with the applicable code of practice e.g. IEC 60079-19/EN 60079-19.

Refer to certificates SIRA 09ATEX3286X, IECEx SIR 09.0121X and CSAE 21UKEX3556X for special conditions of safe use.

The certification of this equipment relies on the following materials used in its construction:

Enclosure: Aluminium Pressure Die Cast Body LM6

Through enclosure mechanism: Plastic Nylon Zytel Injection Moulded

Sealing of enclosure and mechanism: O-ring Acrylonitrile-Butadiene Rubber

Potting Compound of resistors where used: Epoxy Resin

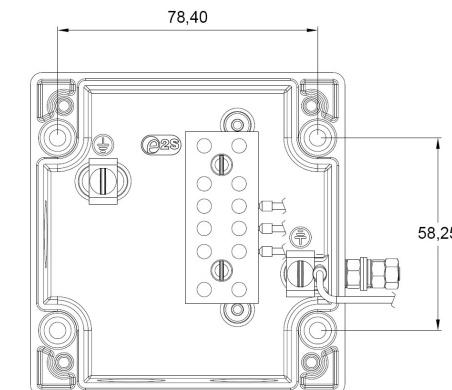
If the equipment is likely to come into contact with aggressive substances, then it is the responsibility of the user to take suitable precautions that prevent it from being adversely affected, thus ensuring that the type of protection is not compromised.

"Aggressive substances" - e.g. acidic liquids or gases that may attack metals, or solvents that may affect polymeric materials.

"Suitable precautions" - e.g. regular checks as part of routine inspections or establishing from the material's data sheet that it is resistant to specific chemicals.

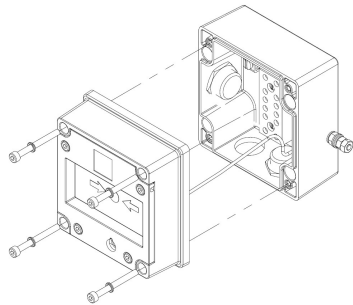
#### **5) Call Point Location and Mounting**

The location of the call point should enable ease of access for operation and testing. The unit should be mounted using the 4 off fixing holes which will accept up to M4 sized fixings.



View of base unit showing fixing centers.

To gain access to the mounting holes in the base the front cover must be removed. This is achieved by removing the 4 off M4 cap head bolts holding on the cover.



Once the screws are removed the cover will hang down out of the way to gain access to the Ex e terminal block, the internal earth terminal and mounting hole recesses.

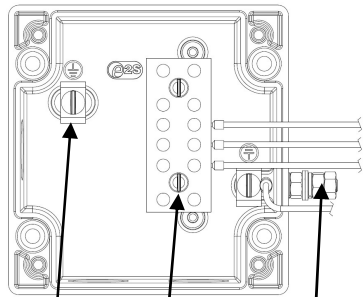
### 6) Earthing

The unit has both internal and external earth terminals.

It is recommended that a cable crimp lug is used on the earth wires.

The internal earth wire is placed under a earth clamp which will stop the cable twisting. This is secured by an M4 screw and spring washer.

The external earth lug should be located between the two M5 washers provided and securely locked down with the M5 spring washer and two locknuts.



Internal Earth terminal  
External Earth Stud  
Ex e terminal block

Note: Depending on options chosen an 8-Way DIN Rail or 6-Way terminal block may be selected.

### 7) Cable connections

There are 3 off cable entry holes suitable for M20x1.5 Ex e approved cable glands or stopping plugs

The unit can be wired in a number of different ways depending on the resistor combination selected. For detail, refer to wiring schematic D150-06-051.

EOL (End of line) device;  
resistor – ExxxR / diode – ED1 / zener – ExxxZ  
Series (In line) device;  
resistor – SxxxR / diode – SD1 / zener – SxxxZ  
Microswitch 1 = M/S 1

Voltage option	Max Voltage	Min resistor value allowable in module Type B unit (2.0W)	Min resistor value allowable in module Type D unit (1.0W)	Min resistor value allowable in module Type E unit (1.75W)
6 V dc	9 V dc	47 ohms	91 ohms	51 ohms
12V dc	15 V dc	120 ohms	240 ohms	150 ohms
24V dc	28 V dc	470 ohms	820 ohms	510 ohms
48V dc	56 V dc	1K8 ohms	3K3 ohms	2K0 ohms

When wiring to Increased Safety terminal enclosures, you are only permitted to connect one wire into each way on the terminal block, unless a pair of wires are crimped into a suitable ferrule. For the six-way terminal block wire sizes allowable are 0.5mm<sup>2</sup> to 4.0mm<sup>2</sup>. For the 8-way DIN rail wire sizes allowable are 0.5mm<sup>2</sup> to 2.5mm<sup>2</sup>.

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. They shall only be installed and wired with cable in an ambient temperature of -10°C to +80°C

All terminal screws, used or unused, shall be tightened down to between 0.5 Nm and 0.7 Nm

#### 7.1) Fitted LED, Diode or Zener Diode

If a diode module is pre-fitted as either an EOL or series device, the following current limitation applies:

Voltage	Max. Current
48V DC	0.75A
6, 12 & 24V DC	2.0A

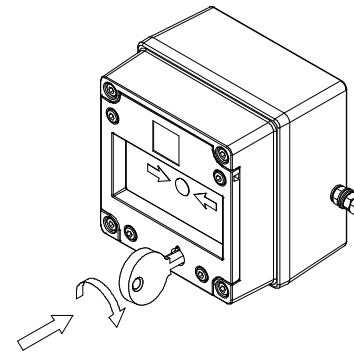
If a Zener diode module is pre-fitted as either EOL or Series device, the following current limitation applies:

Zener Voltage	Max. Input Voltage	Max. Current
3.3V	56V DC	230mA
4.7V		162mA
5.1V		149mA
5.6V		136mA
6.2V		122mA
6.8V		112mA
10V		76mA
12V		63mA

In any scenario, the lowest value of maximum current should be used. For example, if the unit has both a diode and a Zener diode, the Zener diode would determine the maximum input current of the unit, since its max. current is lowest.

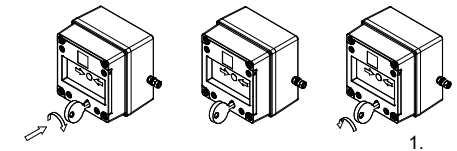
### 8) Testing unit operation

The break Glass unit can be tested without the need to break/replace the frangible glass element. A test key is used to mechanically drop the glass down activating the switch.



The test key is inserted in the test cam and rotated clockwise by an angle of 60° the glass element will visibly drop down in the viewable window.

The call point switch will now change over its contacts to operate the alarm. Once testing is complete the unit needs to be reset, the test key is rotated back anticlockwise by an angle of 60° back to its original position. The glass element should now raise up so it is level again in the viewable window.



1. Insert test Key rotate clockwise 60°

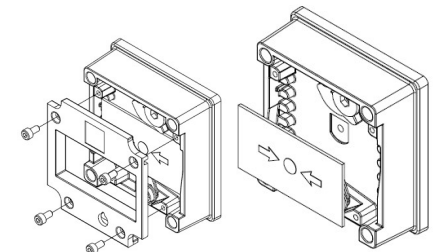
2. Hold in position during test

3. Rotate back anticlockwise to reset

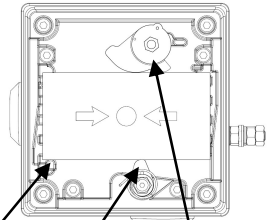
### 9) Replacement of glass element

If the break glass unit has been operated the broken glass element can be quickly replaced. The break glass cover plate is removed by unscrewing the 4 off M4 cap head screws attaching it.

Once cover is removed the broken glass will be free to be removed, clean out any other fragments of glass carefully.



To fit the new glass element rotate the top cam clockwise by an angle of 50° (use a 6mm Allen key) this will then allow the glass to fit back into the pocket it sits in, resting on the pivot point and test cam, release the top cam to rest on the top of the glass element.



Pivot point Test Cam Top Cam (rotate)

Replace the cover plate and tighten the 4 off M4 cap head screws.

Ensure the glass element is free to move under the cover plate. This can be done by running through the units test operation. See section 8 of this instruction manual.

#### 10) SIL 2 Reliability Data

Reliability and Functional safety IEC/EN61508 which has been assessed and is considered suitable for use in low demand safety function:

- Random Hardware Failures and Systematic Failures (route 2H)
- As an unvoted item (i.e. hardware fault tolerance of 0) at SIL 2

The product was assessed against failure modes:

- Failure to close a contact when the call point is struck with specified force
- Failure to open a contact when the call point is struck with specified force
- Spurious output despite no input

Integrity in respect of failure to close	SIL 2
Total Failure rate	0.133 pmh
"hazardous" failure rate (revealed)	0 pmh
"hazardous" failure rate (unrevealed)	0.1 pmh
"safe" failure rate (revealed)	0.033 pmh
"safe" failure rate (unrevealed)	0
Diagnostic Coverage	99%
System type	A
Hardware Fault Tolerance	0
Safe Failure Fraction	>99%
PFD (hazardous failure)	$1.25 \times 10^{-3}$
Proof Test Interval	Up to 1 year

# SINGLE MICROSWITCH WITH DEVICES

PRODUCTS:  
 BExCP3B/C/D/E - BG  
 BExCP3B/C/D/E - PB  
 BExCP3B/C/D/E - PT

Notes:  
 1. Other configurations of dual switch units are possible.  
 Contact E2S sales to discuss options.

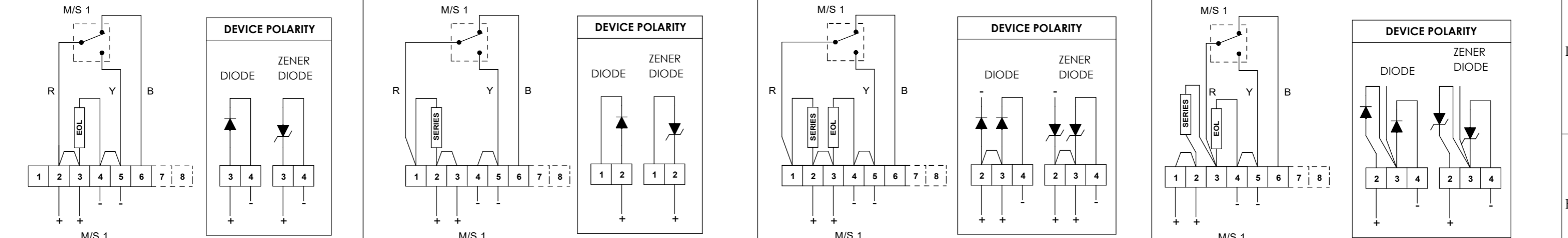
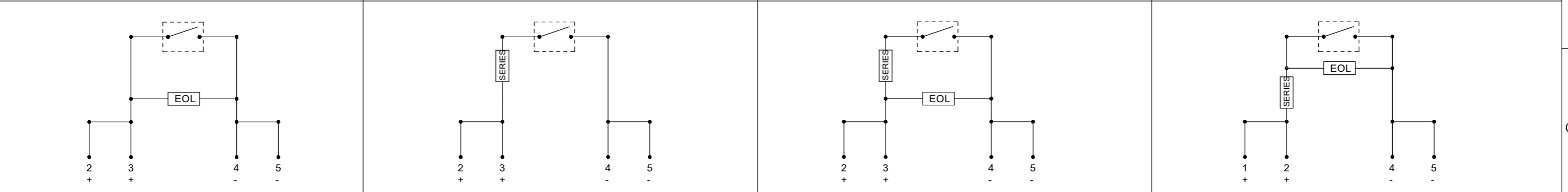
BEXCP3B-BG[s][t][l][e][m][d][y][x][n]-[v][e][s]  
 Voltage  
 Series Device  
 Product Version  
 EOL Device

Module Device Codes		
	EOL	Series
Resistor	ExxxR	SxxxR
Diode	ED1	SD1
Zener Diode	ExxxZ	SxxxZ
LED	N/A	L or C

ISSUE	MOD No.	REASON - INITIAL - DATE
1		INTRODUCTION D.A.H - 07-02-2020
2	ACN0077	TYPE E ADDED ; SIMPLIFIED DIAGRAMS ADDED. D.A.H - 26-08-2020
3		DEVICE POLARITY DETAIL ADDED ; CODING UPDATED D.A.H - 21-12-2021

SINGLE SWITCH WITH EOL DEVICE	CONFIG. 1	SINGLE SWITCH WITH SERIES DEVICE	CONFIG. 2	SINGLE SWITCH WITH EOL & SERIES DEVICE	CONFIG. 3	SINGLE SWITCH WITH EOL & SERIES DEVICE	CONFIG. 4
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SWITCH TYPE [s] PRODUCT OPTION [o] EOL MODULE [e]	[S] [1] [Exxxx]	Single Standard EOL Device	SWITCH TYPE [s] PRODUCT OPTION [o] SERIES MODULE [s]	[S] [1] [Sxxxx]	Single Standard Series Device	SWITCH TYPE [s] PRODUCT OPTION [o] MODULES [e][s]	[S] [1] [Exxxx][Sxxxx]	Single Standard EOL + Series	SWITCH TYPE [s] PRODUCT OPTION [o] MODULE [e][s]	[S] [W] [Exxxx][Sxxxx]	Single Alternative Wiring EOL + Series
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<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b>                      Terminals +(2,3) &amp; -(4,5) open                      Terminals +(2,3) &amp; (6) closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b>                      Terminals +(2,3) &amp; -(4,5) closed                      Terminals +(2,3) &amp; (6) open</p>	<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b>                      Terminals +(2,3) &amp; -(4,5) open                      Terminals +(2,3) &amp; (6) closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b>                      Terminals +(2,3) &amp; -(4,5) closed                      Terminals +(2,3) &amp; (6) open</p>	<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b>                      Terminals +(2,3) &amp; -(4,5) open                      Terminals +(2,3) &amp; (6) closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b>                      Terminals +(2,3) &amp; -(4,5) closed                      Terminals +(2,3) &amp; (6) open</p>	<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b>                      Terminals +(1,2) &amp; -(4,5) M/S 1 open                      Terminals +(1,2) &amp; (6) M/S 1 closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b>                      Terminals +(1,2) &amp; -(4,5) M/S 1 closed                      Terminals +(1,2) &amp; (6) M/S 1 open</p>
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DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN <b>D.HOWGILL</b>	DATE <b>07-02-20</b>	SURFACE FINISH	WEIGHT (Kg)	THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY SYSTEMS LTD. NEITHER THE WHOLE OR ANY EXTRACT MAY BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT.	EUROPEAN SAFETY SYSTEMS LTD IMPRESS HOUSE MANSELL ROAD ACTON LONDON W3 7QH WWW.E2S.COM	ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE		<b>A3</b>
	CHECKED <b>R.N.POTTS</b>	DATE <b>07-02-20</b>	MATERIAL	TITLE <b>BExCP3B/C/D/E-BG/PB/PT MANUAL                  CALL POINT WIRING SCHEMATIC</b>					
	STANDARDS <b>BExCP3B/C/D/E CALL POINTS</b>	APPROVED <b>R.N.POTTS</b>	DATE <b>07-02-20</b>	ALTERNATIVE MATERIAL			SCALE <b>NTS</b>	SHEET <b>1 OF 1</b>	DRAWING NUMBER <b>D150-06-051</b>

# EU Declaration of Conformity



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

**Authorised Representative:** E2S Warnsignaltechnik UG  
Charlottenstrasse 45-51  
72764 Reutlingen  
Germany

**Equipment Type:** BExCP3A-BG, BExCP3A-PB, BExCP3A-PT, BExCP3B-BG, BExCP3B-PB, BExCP3B-PT,  
BExCP3C-BG, BExCP3C-PB, BExCP3C-PT, BExCP3D-BG, BExCP3D-PB, BExCP3D-PT,  
BExCP3E-BG, BExCP3E-PB, BExCP3E-PT

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## Directive 2014/34/EU: Equipment and Protective Systems for use in Potentially Explosive Atmospheres (ATEX)

Notified Body for EU type Examination (Module B):	Sira Certification Service Notified Body No.: 2813 CSA Group Netherlands B.V, Utrechtseweg 310, 6812 AR, Arnhem, Netherlands										
EU-type Examination Certificate (Module B):	SIRA 09ATEX3286X										
Notified Body for Quality Assurance Notification / Conformity to EU-type based on quality assurance of the production process (Module D):	Sira Certification Service Notified Body No.: 2813 CSA Group Netherlands B.V, Utrechtseweg 310, 6812 AR, Arnhem, Netherlands										
Quality Assurance Notification (Module D):	SIRA 05 ATEX M342										
Provisions fulfilled by the equipment:	<table><tr><td>BExCP3A:</td><td>II 2G Ex db eb IIC T6 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +70°C) or</td></tr><tr><td>BExCP3B:</td><td>II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +50°C) II 2D Ex tb IIIC T60°C Db (-40°C ≤ Ta ≤ +50°C) or</td></tr><tr><td>BExCP3C:</td><td>II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C) or</td></tr><tr><td>BExCP3D:</td><td>II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +70°C) or</td></tr><tr><td>BExCP3E:</td><td>II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C)</td></tr></table>	BExCP3A:	II 2G Ex db eb IIC T6 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +70°C) or	BExCP3B:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +50°C) II 2D Ex tb IIIC T60°C Db (-40°C ≤ Ta ≤ +50°C) or	BExCP3C:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C) or	BExCP3D:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +70°C) or	BExCP3E:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C)
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BExCP3E:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C)										
Standards applied:	EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015/A1:2108 IEC 60079-18:2015/AC:2018 EN 60079-31: 2014 IP6X Dust Protection to EN60079-0 / EN 60079-31										

## Directive 2014/30/EU: Electromagnetic Compatibility Directive (EMC)

Standards applied:	EN 61000-6-1:2007 EN 61000-6-2:2005 EN 61000-6-3:2007 / A1:2011 / AC: 2012 EN 61000-6-4:2007 / A1:2011
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## Directive 2011/65/EU: Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The product and all the components contained within it are in accordance with the restriction of the use of hazardous substances in electrical and electronic equipment, including amendment by Directive 2015/863/EU.

# EU Declaration of Conformity



Regulation (EC) 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The product and all the components contained within it are free from substances of very high concern.

Other Standards and Regulations

EN 60529:1992+A2:2013 - Degrees of protection provided by enclosures (IP code) – enclosure rated IP66

Construction and design requirements according to EN54-11:2001 clause 4.7 – BExCP3A-BG / B-BG / C-BG / D-BG only (fitted with burning house symbol shown in figure 3a and no lift flap)

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On behalf of European Safety Systems Ltd., I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives, regulations and standards.

This Declaration is issued under the sole responsibility of the manufacturer.

A handwritten signature in black ink, appearing to read 'Martin Streetz'.

Martin Streetz  
Quality Assurance Manager

Document No.: DC-007\_Issue\_N  
Date and Place of Issue: London, 23/12/2020



# UKCA Declaration of Conformity



Manufacturer: European Safety Systems Ltd.  
Impress House, Mansell Road, Acton  
London, W3 7QH  
United Kingdom

Equipment Type: BExCP3A-BG, BExCP3A-PB, BExCP3A-PT, BExCP3B-BG, BExCP3B-PB, BExCP3B-PT,  
BExCP3C-BG, BExCP3C-PB, BExCP3C-PT, BExCP3D-BG, BExCP3D-PB, BExCP3D-PT,  
BExCP3E-BG, BExCP3E-PB, BExCP3E-PT

Directive UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1 : Product or Protective System Intended for use in Potentially Explosive Atmospheres (UKCA)

Notified Body for UK type Examination (Module B): Sira Certification Service  
Notified Body No.: 0518  
Rake Lane, Eccleston, Chester CH4 9JN, UK

UK-type Examination Certificate (Module B): CSAE 21UKEX3556X

Notified Body for Quality Assurance Notification / Conformity to EU-type based on quality assurance of the production process (Module D): Sira Certification Service  
Notified Body No.: 0518  
Rake Lane, Eccleston, Chester CH4 9JN, UK

Quality Assurance Notification (Module D): CSAE 22UKQAN0046

Provisions fulfilled by the equipment:

BExCP3A:	II 2G Ex db eb IIC T6 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +70°C) or
BExCP3B:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +50°C) II 2D Ex tb IIIC T60°C Db (-40°C ≤ Ta ≤ +50°C) or
BExCP3C:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C) or
BExCP3D:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +70°C) or
BExCP3E:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C)

Standards applied: EN IEC 60079-0:2018  
EN 60079-1:2014  
EN 60079-7:2015/A1:2108  
IEC 60079-18:2015/AC:2018  
EN 60079-31: 2014  
IP6X Dust Protection to EN60079-0 / EN 60079-31

Directive 2014/30/EU: Electromagnetic Compatibility Directive (EMC)

Standards applied: EN 61000-6-1:2007  
EN 61000-6-2:2005  
EN 61000-6-3:2007 / A1:2011 / AC: 2012  
EN 61000-6-4:2007 / A1:2011

Directive 2011/65/EU: Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The product and all the components contained within it are in accordance with the restriction of the use of hazardous substances in electrical and electronic equipment, including amendment by Directive 2015/863/EU.

Regulation (EC) 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The product and all the components contained within it are free from substances of very high concern.



# UKCA Declaration of Conformity



## Other Standards and Regulations

EN 60529:1992+A2:2013 - Degrees of protection provided by enclosures (IP code) – enclosure rated IP66

Construction and design requirements according to EN54-11:2001 clause 4.7 – BExCP3A-BG / B-BG / C-BG / D-BG only (fitted with burning house symbol shown in figure 3a and no lift flap)

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On behalf of European Safety Systems Ltd., I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives, regulations and standards.

This Declaration is issued under the sole responsibility of the manufacturer.

Martin Streetz  
Quality Assurance Manager

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