

# BExCP3-PB Push Button Manual Call Point

The BExCP3-PB push button manual call points are designed for the harshest of environments and approved for Zone 1, 2, 21 and 22 explosion proof hazardous areas for the control of fire and gas alarm systems. SIL2 compliant to IEC61508 (2010).

The BEx range features enclosures manufactured from corrosion proof, marine grade, copper free LM6 (A413) aluminium with a chromated and powder coat finish. Available with and without monitoring resistors all versions are certified to IECEx and ATEX standards with additional PESO, INMETRO and Ex EAC approvals. The push button mechanism is protected by a spring loaded cover therefore the switch requires a two-action activation. The BExCP3-PB is user re-settable by rotating the push button.

## Features

- Alternative housing colours are available to meet specific requirements.
- DIN rail mounted terminal blocks: 8 × 2.5mm<sup>2</sup>
- Spring loaded lift flap.
- Metalised Polyester or stainless steel duty label.
- Series and/or End of Line resistors, diodes or Zener diodes.

## Approvals

- ATEX certificate: Sira 09ATEX3286X
- IECEx certificate: IECEx SIR 09.0121X
- INMETRO certificate: 10HEx-0011X
- Ex EAC TR CU 012/2011 certified: KZ.1510019.22.01.00271
- PESO CCOE certified: P471504
- SIL 2 certified to IEC 61508 (2010)

## Coding

- BExCP3A-PB:  
II 2G Ex db eb IIC T6 Gb Ta = -40°C to +70°C  
II 2D Ex tb IIIC T75°C Db IP66
- BExCP3B-PB:  
II 2G Ex db eb mb IIC T4 Gb Ta = -40°C to +50°C  
II 2D Ex tb IIIC T60°C Db IP66
- BExCP3C-PB:  
II 2G Ex db eb mb IIC T4 Gb Ta = -40°C to +65°C  
II 2D Ex tb IIIC T75°C Db IP66



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**Thorne & Derrick**  
+44 (0) 191 410 4292  
[www.heatingandprocess.com](http://www.heatingandprocess.com)



## Specification

|                        |                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BExCP3A-PB:</b>     | A version                                                                                                                                                                   |
| Coding:                | II 2G Ex db eb IIC T6 Gb Ta = -40°C to +70°C<br>II 2D Ex tb IIIC T75°C Db IP66                                                                                              |
| Switch rating:         | 250V ac Max. 5.0A<br>75V: Max 0.75A<br>50V: Max 1.0A<br>30V: 5.0A Max Resistive load 3.0A Inductive load<br>12V: Max 5.0A                                                   |
| <b>BExCP3B-PB:</b>     | B version                                                                                                                                                                   |
| Coding:                | II 2G Ex db eb mb IIC T4 Gb Ta = -40°C to +50°C<br>II 2D Ex tb IIIC T60°C Db IP66                                                                                           |
| Switch rating:         | <50V: 1.0A<br>>50V: 0.75A<br>56V dc Max.                                                                                                                                    |
| Min. resistor (2W):    | 48V = 1K8<br>24V = 470R<br>12V = 120R<br>6V = 47R                                                                                                                           |
| <b>BExCP3C-PB:</b>     | C version                                                                                                                                                                   |
| Coding:                | II 2G Ex db eb mb IIC T4 Gb Ta = -40°C to +65°C<br>II 2D Ex tb IIIC T75°C Db IP66                                                                                           |
| Switch rating:         | <50V: 1.0A<br>>50V: 0.75A<br>56V dc Max.                                                                                                                                    |
| Min. resistor (1.75W): | 48V = 2K<br>24V = 510R<br>12V = 150R<br>6V = 51R                                                                                                                            |
| <b>General:</b>        |                                                                                                                                                                             |
| Ambient:               | Ta = -40°C to +70°C [-40° to +158°F]<br>(+50°C for BExCP3B, +65°C for BExCP3C)                                                                                              |
| Ingress protection:    | IP66/67                                                                                                                                                                     |
| Enclosure material:    | Marine grade copper free LM6 Aluminium                                                                                                                                      |
| Enclosure finish:      | Chromated & powder coated finish: anti-corrosion.                                                                                                                           |
| Colour:                | RAL3000 Red (others available on request)                                                                                                                                   |
| Cable entries:         | 2 x M20 clearance top and<br>1 x M20 clearance side.<br>Back box can be rotated to give<br>2 x bottom and 1 x side entries<br>Adapters available to 1/2"NPT, 3/4"NPT or M25 |
| Stopping plugs:        | 2 x Ex e nylon plugs as standard<br>Brass, nickel plated brass and stainless steel Ex d<br>plugs optional                                                                   |
| Terminals:             | 6 × 4.0mm <sup>2</sup> cables or or 8 × 2.5mm <sup>2</sup> DIN rail                                                                                                         |
| Weight:                | 0.8Kg                                                                                                                                                                       |

## Part Codes

| Version:                                                  | Part code:                                                                                                                                                                       | Description:                                                                                                                                                                                                      |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type:                                                     | BExCP3APB Type A: no end of line devices Ta -40°C to +70°C<br>BExCP3BPB Type B: end of line devices Ta -40°C to +50°C<br>BExCP3CPB Type C: end of line devices Ta -40°C to +65°C |                                                                                                                                                                                                                   |
| Switch Type: [s]                                          | S                                                                                                                                                                                | SPCO/SPDT                                                                                                                                                                                                         |
| Terminals: [t]                                            | S                                                                                                                                                                                | 6 × 4mm <sup>2</sup> terminals                                                                                                                                                                                    |
| Lift flap: [l]                                            | L                                                                                                                                                                                | Lift flap supplied as standard                                                                                                                                                                                    |
| Cable Entry Type: [e]                                     | A<br>B<br>C<br>D<br>E<br>F<br>G                                                                                                                                                  | 3 x M20x1.5mm<br>2 × 1/2" NPT – adaptors<br>2 × 3/4" NPT – adaptors<br>2 x M25x1.5mm – adaptors<br>1 × 1/2" NPT – adaptor<br>1 × 3/4" NPT – adaptor<br>1 x M25x1.5mm – adaptor                                    |
| Stopping plug material: [m]                               | B<br>N<br>P<br>S                                                                                                                                                                 | Brass<br>Nylon<br>Nickel Plated Brass<br>Stainless Steel                                                                                                                                                          |
| Duty label / Equipment tag: [d]:                          | 1<br>2<br>3<br>4<br>5<br>6<br>7                                                                                                                                                  | No Duty label, no Equip. tag<br>Duty label Stainless Steel<br>Duty label St/St + Equip. tag<br>Duty label Metalised Polyester<br>Duty label M. Poly. + Equip. tag<br>Equip. tag only<br>Special label requirement |
| Product version: [v]                                      | A1                                                                                                                                                                               | IECEX, ATEX, EAC, INMETRO, PESO approved                                                                                                                                                                          |
| Enclosure colour: [x]                                     | R<br>B<br>N<br>Y<br>V<br>S<br>K<br>M<br>Z                                                                                                                                        | Red<br>Blue<br>Green<br>Yellow<br>Red/White<br>Yellow/Black<br>Black<br>Magenta<br>Red/Black                                                                                                                      |
| Default variable: [u]                                     | N                                                                                                                                                                                | Default = N – not currently used                                                                                                                                                                                  |
| Voltage: [v]                                              | 48, 24, 12, 6                                                                                                                                                                    | System voltage Vdc (only required for BExCP3B or C type)                                                                                                                                                          |
| E.O.L.Module: [e]<br>optional only for BExCP3B or C type  | ExxxR<br>ED1<br>ExxxZ                                                                                                                                                            | Resistor value in Ohms e.g. E470R = 470 Ohm<br>Diode IN4007 = ED1<br>Zener diode e.g. E5V1Z = 5.1V                                                                                                                |
| Series Module: [s]<br>optional only for BExCP3B or C type | SxxxR<br>SD1<br>SxxxZ                                                                                                                                                            | Resistor value in Ohms e.g. S1K5R = 1.5K Ohm<br>Diode IN4007 = SD1<br>Zener diode e.g. S5V1Z = 5.1V                                                                                                               |
| <b>Accessories:</b>                                       | SP65-0001-A2<br>SP65-0001-A4<br>SP65-0002-A2<br>SP65-0002-A4                                                                                                                     | Pole Mount Bracket Kit 2" St/St A2 (304)<br>Pole Mount Bracket Kit 2" St/St A4 (316)<br>Sunshade – St/St A2 (304)<br>Sunshade – St/St A4 (316)                                                                    |



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duct development. All dimensions are approximate. This unit is sold subject to our standard

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