

# GNE<sub>x</sub>CP6-BG Break Glass Manual Call Point

The flameproof GNE<sub>x</sub>CP6-BG break glass manual call points are approved for Zone 1, 2, 21 and 22 hazardous areas for the control of fire and gas alarm systems. The robust, lightweight GRP enclosure is UV stable and provides a corrosion free initiation solution for harsh and hazardous applications on and offshore.

Available with optional EOL or series resistors, diode or Zener diodes and an LED indicator. Also with either single or double pole change over switches. Certified to IECEx and ATEX standards with additional PESO, INMETRO and Ex EAC approvals. The break glass element features a safety membrane and is designed to snap ensuring the no glass fragments are released during activation. A hammer is available as an accessory if required by local code.

## Features

- Alternative housing colours are available to meet specific requirements
- Single or double pole c/o switch
- DIN rail mounted terminal blocks: 8 × 2.5mm<sup>2</sup>
- Metalised polyester or stainless steel “Duty” label
- Series and/or End of Line resistors, diodes & Zener diodes
- Optional Indicator LED
- Break glass hammer accessory available

## Approvals

- ATEX certificate: Sira 09ATEX3286X
- IECEx certificate: IECEx SIR 09.0121X
- SIL 2 certified to IEC 61508 (2010)
- Ex EAC certified: KZ.1510019.22.01.00271
- PESO CCOE certified: P471504
- INMETRO certificate: IEx\_10.0011X
- ECAS Ex 20-06-14792/E20-06-002576/NB0007

## Coding

- GNE<sub>x</sub>CP6A-BG:  
II 2G Ex db eb IIC T6 Gb Ta = -40°C to +75°C  
II 2D Ex tb IIIC T75°C Db IP66
- GNE<sub>x</sub>CP6B-BG:  
II 2G Ex db eb mb IIC T4 Gb Ta = -40°C to +50°C  
II 2D Ex tb IIIC T80°C Db IP66
- GNE<sub>x</sub>CP6C-BG:  
II 2G Ex db eb mb IIC T4 Gb Ta = -40°C to +65°C  
II 2D Ex tb IIIC T75°C Db IP66



## Specification

|                              |   |
|------------------------------|---|
| <b>GNExCPA-BG:</b>           | A version   |
| Coding:                      | II 2G Ex db eb IIC T6 Gb Ta = -40°C to +75°C<br>II 2D Ex tb IIIC T75°C Db IP66  |
| Switch rating:               | 250V ac max. current 5.0A<br>250V dc max. current 0.25A<br>125V dc max. current 0.5A<br>75V dc max. current 0.75A<br>50V dc max. current 1.0A<br>30V dc max. current 5.0A max resistive, 3.0A inductive<br>12V dc max. current 5.0A |
| <b>GNExCPB-BG:</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 T80°C Db IP66   |
| Switch rating:               | 48Vdc nom. 56Vdc max. 0.75A max.<br>24Vdc nom. 28Vdc max. 5.0A max. resistive, 3.0A inductive<br>12Vdc nom. 15Vdc max. 5.0A max.<br>6Vdc nom. 9Vdc max. 5.0A max.   |
| Min. resistor (2W):          | 48V = 1K8<br>24V = 470R<br>12V = 120R<br>6V = 47R   |
| LED                          | Optional LED indicator assembly   |
| <b>GNExCPC-BG:</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:               | 125V dc max. current 0.5A resistive, 0.03A inductive<br>75V dc max. current 0.75A<br>48V dc max. current 1.0A<br>24V dc max. current 5.0A max resistive, 3.0A inductive<br>12V dc max. current 5.0A<br>6V dc max. current 5A        |
| Min. resistor (1.5W):        | 48V = 1K8<br>24V = 430R<br>12V = 110R<br>6V = 27R   |
| Resistors (Current limited): | 48V < 1K8 max. current: 31mA<br>24V < 430R max. current = 62mA<br>12V < 110R max. current: 125mA<br>6V < 27R max. current = 250mA   |
| LED                          | Optional LED indicator assembly with or without current limiting resistor   |
| <b>General:</b>              |   |
| Ambient:                     | Ta = -40°C to +75°C [-40° to +167°F]<br>(+50°C for BExCP3B, +65°C for BExCP3C)  |
| Ingress protection:          | IP66  |
| Enclosure:                   | GRP – Glass Reinforced Polyester  |
| Colour:                      | RAL3000 Red (others available on request)   |
| Cable entries:               | 2 x M20 clearance bottom and<br>1 x M20 clearance side.<br>Back box can be rotated to give 2 x top 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 plugs optional  |
| Terminals:                   | 6 × 4.0mm <sup>2</sup> cables or or 8 × 2.5mm <sup>2</sup> DIN rail   |
| Relative Humidity:           | R.H. 95% @ 20°C   |
| Test:                        | Test key facility   |
| Weight:                      | 1.2Kg/2.64lbs   |

## Part Codes

| Version:  | Part code variable:   | Description:  |
|---|---|---|
| Type:   | GNExCP6ABG<br>GNExCP6BBG<br>GNExCP6CBG                                    | Type A: no end of line devices Ta -40°C to +75°C<br>Type B: end of line devices Ta -40°C to +50°C<br>Type C: end of line devices Ta -40°C to +65°C  |
| Switch Type: [s]  | S<br>D  | SPCO/SPDT<br>DPCO/DPDT  |
| Terminals: [t]  | D<br>S  | DIN Rail 8 × SAK2.5<br>6 × 4mm <sup>2</sup> terminals   |
| Lift flap: [l]  | L<br>N  | Lift flap<br>No lift flap   |
| 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  |
| LED Indicator [u]                                       | N<br>L<br>C   | No LED indicator – Default: N for A versions<br>LED indicator (GNExCP6B or C versions only)<br>LED indicator (GNExCP6B or C versions only)<br>max. current: 20mA  |
| Voltage: [v]  | 48, 24, 12, 6   | System voltage in Vdc (only required for GNExCP6B or C type)  |
| E.O.L.Module: [e] optional only for GNExCP6B 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] optional only for GNExCP6B 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>Spares:</b>  | SP70-0001<br>SP70-0040  | Replacement break glass elements (Pack of 50)<br>GNExCP6-BG Test Key  |
| <b>Accessories:</b>                                     | SP65-0001-A2<br>SP65-0001-A4<br>SP65-0002-A2<br>SP65-0002-A4<br>SP70-0065 | 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)<br>Break glass hammer with chain                                   |

