

# GNExCP6-BG Break Glass Manual Call Point

The flameproof GNExCP6-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

## Coding

- GNExCP6A-BG:  
II 2G Ex db eb IIC T6 Gb Ta = -40°C to +75°C  
II 2D Ex tb IIIC T75°C Db IP66
- GNExCP6B-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
- GNExCP6C-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



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## 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. 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>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:         | <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                                                                                                                           |
| 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:         | <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 +75°C [-40° to +167°F]<br>(+50°C for BExCP3B, +65°C for BExCP3C)                                                                                              |
| Ingress protection:    | IP66                                                                                                                                                                        |
| Enclosure material:    | GRP – Glass Reinforced Polyester                                                                                                                                            |
| 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                                                                                                         |
| Relative Humidity:     | R.H. 95% @ 20°C                                                                                                                                                             |
| Test:                  | Test key facility                                                                                                                                                           |
| Weight:                | 1.2Kg/2.64lbs                                                                                                                                                               |

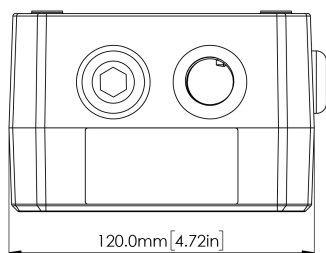
## Part Codes

| Version:                                                | Part reference:                                                           | 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                                                                    | No LED indicator required<br>LED indicator required<br>GNExCP6B version only – Default: N for A & C versions                                                                                                      |
| 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                                   |



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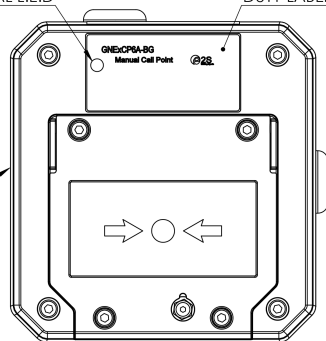
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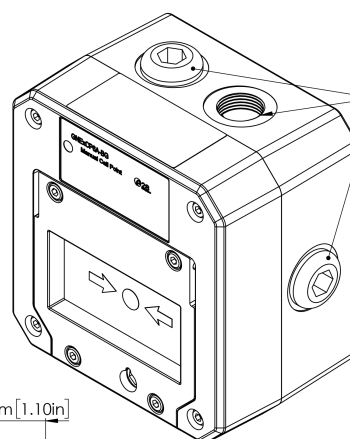
POSITION OF  
OPTIONAL L.E.D

POSITION OF OPTIONAL  
DUTY LABEL

POSITION OF  
OPTIONAL  
TAG PLATE

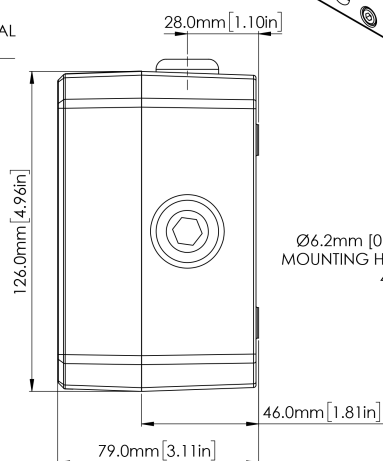


ISOMETRIC VIEW

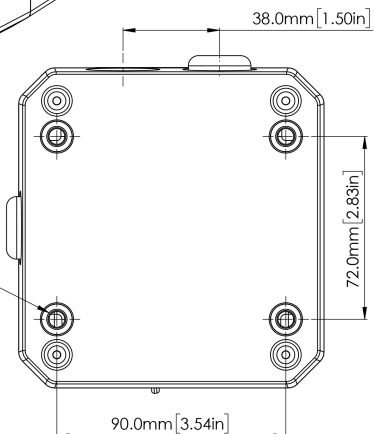


M20 x 1.5 IN 3 POSITIONS

NB: M20 X 1.5 Ex e APPROVED  
CABLE GLANDS OR STOPPING PLUGS  
TO BE USED ONLY



Ø6.2mm [0.24in]  
MOUNTING HOLES  
4 OFF



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

27 May 2020