# GNExCP7-PB-I IS Dual Action Push Button Call Point



The **intrinsically safe** GNExCP7-PB-I dual action, twist and push button Ex d explosion proof manual call points feature a robust GRP enclosure with a 316 stainless steel mechanism and IP66/67 rating – designed for the harshest hazardous environments.

Requiring a twist and push action to activate the GNExCP7-PB-I features a robust stainless steel button. Globally approved to IECEx, ATEX, UL and cUL standards for all Class I Div 1 and Zone 0 installations. Available with standard DIN rail terminals or the innovative E2S termination board providing dedicated connections for EOL and/or series devices. SIL2 compliant to IEC 61508 (2010). DNV type approved for exposed locations.

#### **Features**

- Corrosion proof GRP enclosure, anti-static & UV stable
- Ingress protection IP66/67/68, 4/4X/3R/13
- Single or double switch (SPCO/DPCO)
- 316 (A4) Stainless Steel mechanism
- 3 x M20 cable entries, 2 x Stopping plugs included
- Captive stainless steel fasteners
- Optional LED indicator

#### **Approvals**

- UL/cUL cert: UL-US-L513632-352311-42200202-2
- IECEx cert: IECEx ULD 19.0007X
- ATEX cert: DEMKO 19 ATEX 2101X
- UKCA cert: UL21UKEX2134X
- DNV cert: TAA000034V
- SIL 2 compliant to IEC 61508 (2010)

### Coding

- NEC Class / Zone
   Class I Zone 0 AEx ia IIC T6 Ga Ta -55°C to +70°C
- CEC Class / Zone Ex ia IIC T6 Ga Ta -55°C to +70°C
- NEC / CEC Class / Div
   Class I Div 1 Group ABCD T6 Ta -55°C to +70°C
- IECEx / ATEX
   II 1G Ex ia IIC T6 Ga Ta -55°C to +70°C
   Note: All rated to T4 with EOL, series and/or LED.























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Specification GNExCP7-PB-I	IS Dual action puch but	ton				
	IS Dual action push button -55°C to +70°C					
Temp. Range: Switch:	-55°C to +70°C  Sealed - IP67					
	P66/67/68 to EN/IEC 60529					
——————————————————————————————————————	4/4X/3R/13 to UL50E/NEMA250					
Enclosure matl:	GRP Glass Reinforced Polyester, anti-static & UV stable					
Colour:	Red Other solid and striped colours available					
Cable entries:	$2\times$ M20x1.5 down facing and $1\times$ M20x1.5 side Can be rotated to provide $2\times$ top facing and $1\times$ side entries Cable entries adaptable to 1/2"NPT, 3/4"NPT & M25					
Stopping plugs:	2 x Stopping plugs as standard Brass, Nickel plated or Stainless Steel					
Terminals:	DIN rail $8 \times 2.5 \text{mm}^2 \text{ SAK2.5}$ or Termination board featuring $6 \times 2.5 \text{mm}^2$ terminals plus $4 \times 4 $					
Earth:	External M5 earth connection					
Relative Humidity:	R.H. 95% @ 20°C					
MTBF:	479.6 years / 4,201,680 hours I- MIL 217					
Weight:	2.1Kg/4.63lbs					
Supply voltage:	24Vdc Nominal 30Vdc N	laximum via barriers				
Input safety parameters:	Ui Ii Pi Ci Li	30V 500mA 1100mW 0				
Component:	Value:	Max current:				
End-of-Line Resistor	min. 470R / 2W or min. 2k2 / 0.5W	n/a - limited by barrier				
	5% Max. tolerance. Min. size: Ø3.5 × 9.0mn	n 2W or Ø2.6 × 6.8mm 0.5W				
End-of-Line Diode	2W	59.13mA – limited by system				
	Type 1N5401. Min. size	: Ø4.8 × 7.2mm				
Series Resistor	min. 470R / 2W or min. 2k2 / 0.5W	n/a - limited by barrier				
	5% Max. tolerance. Min. size: Ø3.5 × 9.0mn	n 2W or Ø2.6 × 6.8mm 0.5W				
Series Diode	2W	59.13mA – limited by system				
	Type 1N5401. Min. size	: Ø4.8 × 7.2mm				
Series Zener Diode	: 3V3	230mA – limited by system				
Time 1NE 2 avD	4V7	162mA – limited by system				
Type 1N53xxB Ø3.3 × 8.4mm	5V1 5V6	149mA – limited by system 136mA – limited by system				
Min component	6V2	122mA – limited by system				
size	6V8	112mA – limited by system				
	10V 12V	76mA – limited by system 63mA – limited by system				
Spares:	v	os imited by system				
SP70-0001 SP70-0040	Replacement break glass elements (Pack of 50) STXCP8-BG Test Key					
Accessories:	S.AGI O DO TOSE NO					
SP65-0001-A4 SP65-0002-A4	Pole Mount Bracket Kit Sunshade – St/St A4 (3)	16)				
SP70-0065 Break glass hammer with chain						

## Part Codes

Version:	Part references:	Description:
Product type:	GNExCP7PB	IS Dual action push button
Switch Type: [s]	S D	SPCO/SPDT DPCO/DPDT
Terminals: [t]	D P	DIN Rail 8 × SAK2.5 PCBA termination: 6 × 2.5mm² plus 4 × EOL & Series terminals NOTE: D option only available if no EOL, series or LED are required P option only available if EOL, series or LED are required to be factor fitted or installed during installation
Lift flap: [l]	N	Lift flap not available
Cable Entry Type: [e]	A B C D E F G	3 x M20x1.5mm 2 × 1/2" NPT – adaptors 2 × 3/4" NPT – adaptors 2 x M25x1.5mm – adaptors 1 × 1/2" NPT – adaptor 1 × 3/4" NPT – adaptor 1 x M25x1.5mm – adaptor
Stopping plug material: [m]	B P S	Brass Nickel Plated Brass Stainless Steel
Duty label / Equipment tag: [d]:	1 2 3 4 5 6 7	No Duty label, no Equip. tag Duty label Stainless Steel Duty label St/St + Equip. tag Duty label Metalised Polyester Duty label M. Poly. + Equip. tag Equip. tag only Special label requirement
Product version: [v]	I	UL, cUL, IECEx, ATEX, DNV
Product option: [o]	1 R W	Standard product With EOL, series and/or LED devices Alternate EOL wiring
Enclosure colour: [X]	R B N Y V S S K M Z	Red Blue Green Yellow Red/White Yellow/Black Black Magenta Red/Black
LED indicator: [u]	N L C	No LED required LED with 1.5K ballast resistor LED without ballast resistor
E.O.L.Module: [e] optional	ExxxR ED1 ExxxZ	Resistor value in Ohms e.g. E470R = 470 Ohm Diode IN4007 = ED1 Zener diode e.g. E5V1Z = 5.1V
Series Module: [s] optional	SxxxR SD1 SxxxZ	Resistor value in Ohms e.g. S1K5R = 1.5K Ohm Diode IN4007 = SD1 Zener diode e.g. S5V1Z = 5.1V







