1-24-150 / GNEx: GRP explosion/flameproof

GNExCP7-BG Break Glass Manual Call Point

The explosion proof GNExCP7-BG break glass Ex d manual call points feature a robust GRP enclosure with a 316 stainless steel mechanism and IP66/67 rating – manufactured for the harshest of hazardous environments.

Globally approved to IECEx, ATEX, UL and cUL standard for all Zone 1, 2, 21 & 22 and Class I/II Div 2 installations. Can also be specified for applications requiring compliance to the UL38 standard for Manual Signaling Boxes for Fire Alarm Systems or ULC-S528 Manual Stations For Fire Alarm Systems. Available with DIN rail terminals or the innovative E2S termination board with dedicated connections for field installed EOL and/or series devices. SIL 2 compliant to IEC 61508 (2010).

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
- Optional stainless steel lift flap
- 3 x cable entries, 2 x stopping plugs included
- Available with addressable modules
- Optional LED indicator

Approvals

- UL/cUL certificate: 20190604-E482536, 20200224-E513632
- IECEx certificate: IECEx ULD 19.0007X
- ATEX certificate: DEMKO 19 ATEX 2101X
- UKCA certificate: UL21UKEX2134X
- INMETRO certificate IEx 23.0091X
- PESO CCOE certified: P632054
- DNV certificate TAA000034V
- SIL 2 compliant to IEC 61508 (2010)

Coding

- NEC / CEC:
  Class I Div 2 Group ABCD T5 Ta -55°C to +70°C
  Class I Div 2 Group ABCD T6 Ta -55°C to +60°C
  Class II Div 2 Group FG T4 Ta -55°C to +60°C
  Class III Div 1 & 2 Ta -55°C to +60°C
- NEC:
  Class I Zone 1 AEx db IIC T5 Gb (Ta -55°C to +70°C)
  Class I Zone 1 AEx db IIC T6 Gb (Ta -55°C to +60°C)
  Zone 21 AEx tb IIIC T135°C Db (Ta -55°C to +70°C)
  Zone 21 AEx tb IIIC T125°C Db (Ta -55°C to +60°C)
- CEC:
  Class I Zone 1 Ex db IIC T5 Gb X (Ta -55°C to +70°C)
  Class I Zone 1 Ex db IIC T6 Gb X (Ta -55°C to +60°C)
  Zone 21 Ex tb IIIC T135°C Db (Ta -55°C to +70°C)
- IECEx & ATEX:
  II 2G Ex db IIC T5 Gb Ta. -55 to +70°C
  II 2G Ex db IIC T6 Gb Ta. -55 to +65°C
  II 2D Ex tb IIIC T90°C Db Ta. -55° to +70°C
  See product manual for full product specific coding

Specification

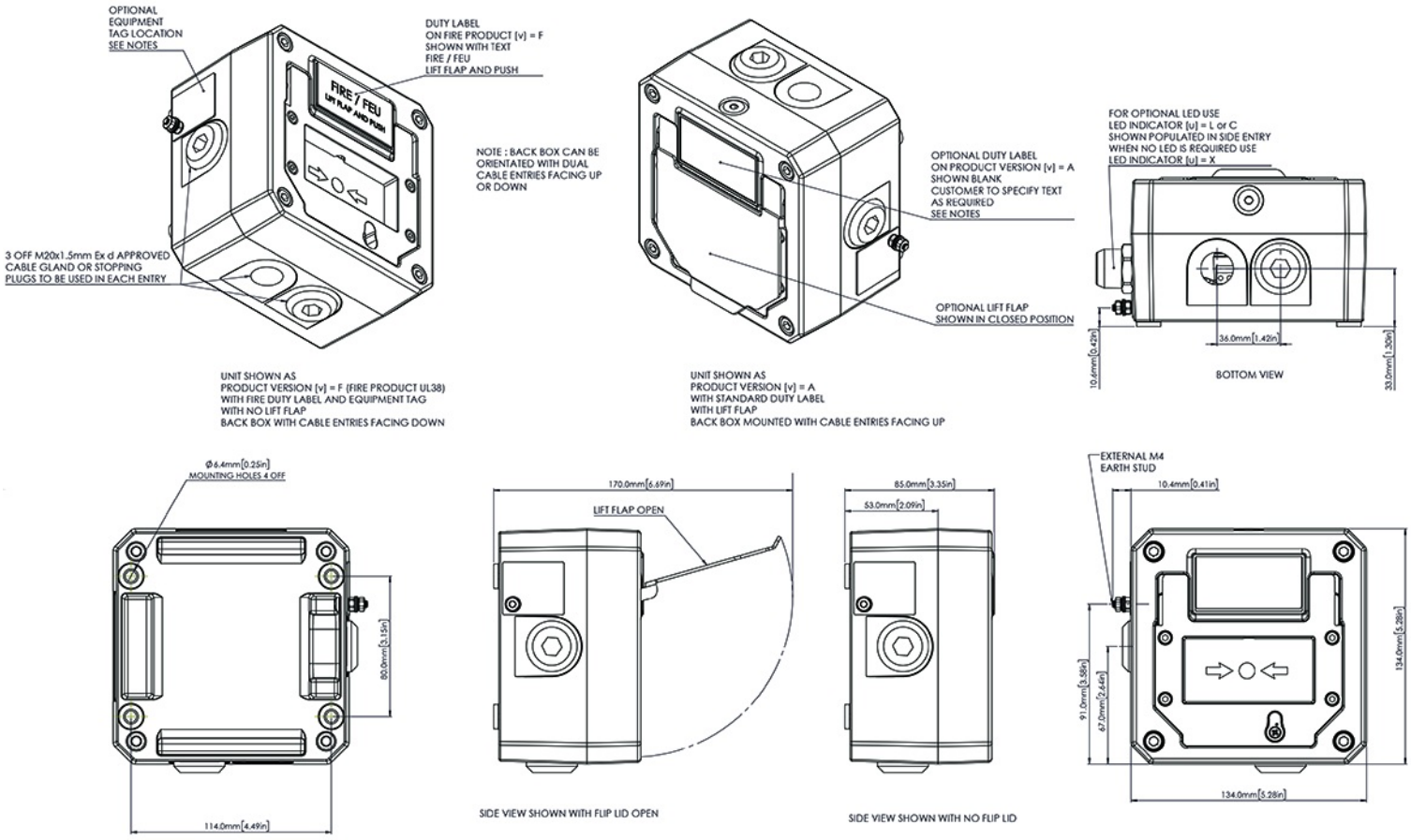
GNExCP7-BG:	Break Glass Manual Call Point
Temp. Range:	-55°C to +60°C/+70°C
Switch:	Sealed – IP67
Ingress protection:	IP66/67/68 to EN/IEC 60529 4/4X/3R/13 to UL50E/NEMA250
Enclosure matl:	GRP Glass Reinforced Polyester, anti-static & UV stable
Colour:	Red Other solid and striped colours available
Lift flap:	Optional 316 stainless steel lift flap
Cable entries:	2 x M20x1.5 down facing and 1 x M20x1.5 side Back box can be rotated to provide 2 x top facing and 1 x 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 × 2.5mm² SAK2.5 or Termination board featuring 6 × 2.5mm² terminals plus 4 x dedicated EOL & Series terminals
Earth:	External M5 earth connection
Relative Humidity:	R.H. 95% @ 20°C
MTBF:	479.6 years / 4,201,680 hours - MIL 217
Weight:	2.1Kg/4.63lbs

Voltage Range:	Max input Current:	Limitations for EOL / Series Resistors:
250Vac Max	3.33A max	not permitted
48Vdc Max	1.0A max	min. 2.2kOhm
24Vdc Max	3.0A max	min. 470 Ohm
EOL and Series Diode Values:		
xxx:	Zener Value	Max. current supply permitted
3V3	3.3V Diode	230mA
4V7	4.7V Diode	162mA
5V1	5.1V Diode	149mA
5V6	5.6V Diode	136mA
6V2	6.2V Diode	122mA
6V8	6.8V Diode	112mA
10V	10V Diode	76mA
12V	12V Diode	63mA

Spares:	
SP70-0001	Spare Break Glass – Box of 50
SP70-0040	Spare GNExCP7-BG Test Key
Accessories:	
SP65-0001-A4	Pole Mount Bracket Kit St/St A4 (316)
SP65-0002-A4	Sunshade – St/St A4 (316)

Part Codes

Version:	Part reference:	Description:
Product type:	GNExCP7BG	Break Glass Manual Call Point
Switch type: [s]	S	SPCO/SPDT
	D	DPCO/DPDT
Terminals: [t]	D	DIN Rail 8 × SAK2.5
	X	Addressable module – select below
	P	Termination board: 6 × 2.5mm² terminals plus 4 × EOL & Series terminals
Lift flap: [l]	N	No lift flap
	L	Stainless steel lift flap
Cable entries:[e]	A	3 x M20x1.5mm
	B	2 × 1/2" NPT – adaptors
	C	2 × 3/4" NPT – adaptors
	D	2 x M25x1.5mm – adaptors
	E	1 × 1/2" NPT – adaptor
	F	1 × 3/4" NPT – adaptor
	G	1 x M25x1.5mm – adaptor
Stopping plug/ adaptor material: [m]	B	Brass
	P	Nickel Plated Brass
	S	Stainless Steel
Duty label/Equipment tag: [d]:	1	No Duty label, no Equip. tag
	2	Duty label Stainless Steel
	3	Duty label St/St + Equip. tag
	4	Duty label Metalised Polyester
	5	Duty label M. Poly. + Equip. tag
	6	Equip. tag only
	7	Special label requirement
Product version: [v]	A	UL, cUL, IECEx, ATEX, INMETRO & PESO
	F	UL38 & ULC-S528 Fire UL, cUL, ULC, IECEx, ATEX, INMETRO & PESO
	H	Honeywell TC809B1008 module*
	Z	Ziton A45E-2 module*
	M	Johnson Controls MIM800 module*
	C	Hochiki CHQ-CP2 monito*
	P	Apollo XP95 mini module*
	E	Consilium IC10 module*
	S	Siemens XTRI-M module*
	D	Securiton SDI 82X-I module*
	L	Simplex 4090-9051 Supervised IAM*
	NOTE:	* Versions with addressable modules do not include UL/cUL/ULC approval
Product option: [o]	1	Standard product
	W	Alternate EOL & series wiring
	2	Duplicated EOL and/or series devices
	Y	Duplicated EOL and series – alternate wiring
	P	Parallel wiring with or without EOL/series
	V	Parallel with EOL and series alternate wiring
	Note:	Duplicated EOL/series and Parallel wiring only available with switch type 'D'
Enclosure colour: [x]	R	Red (F version mandatory)
	B	Blue
	N	Green
	Y	Yellow
	V	Red/White
	S	Yellow/Black
	T	Yellow/Red
	K	Black
	M	Magenta
	Z	Red/Black
	P	Red/Yellow
LED indicator: [u]	N	No LED required (F version mandatory)
	L	LED with 1.5K ballast resistor
	C	LED without ballast resistor
E.O.L.Module: [e] optional	ExxxR	Resistor value in Ohms e.g. E470R = 470 Ohm
	ED1	Diode IN4007 = ED1



Note

F version only available with Duty label option 2 or 3. Mandatory duty label: “FIRE/FEU”

F version only available with Red enclosure

F version not available with LED indicator

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