

# MANUAL CALL POINTS

EExed, Intrinsically Safe (EExia),  
Weatherproof BG Range & PB Range



# Features

- ★ Polyester enclosure – light, strong and not subject to corrosion.
- ★ 2 models:
  - Breakglass.
  - Pushbutton.
- ★ 4 basic versions available:
  - (1) Explosion protected EExe (ATEX or Chinese [CQST], Or Brazilian [Inmetro]),
  - (2) Explosion protected EExi (ATEX, GOST 'R', GOST 'K', Chinese (CQST), Brazilian [Inmetro] or CSA),
  - (3) Explosion protected: Class I, Div. 2, Groups A-D  
Class II, Div. 2, Groups F & G (PB only)  
Class I, Zone 2
  - (4) Weatherproof & Dust-tight/UL ordinary locations.
- ★ In line and end of line resistors and/or zener diodes can be fitted.
- ★ Variety of colours available.
- ★ Up to 9 terminals available.
- ★ Liftflap available for extra protection against inadvertent operation.
- ★ Optional LED – this indicates that the unit has been operated – useful for testing purposes.
- ★ Earth continuity option for metal glands.
- ★ 1 or 2 changeover switches.
- ★ Captive cover screws.

## Breakglass Model

- ★ No hammer required – the glass is covered by a membrane thus protecting the operator from glass fragments.
- ★ A plastic 'Break glass' or deformable operating element is available to replace the break glass\* .

Once the flexible element is pressed it bends but will not break. The unit is reset by repositioning the element. All other functions remain the same.
- ★ Complies with the British Standard for call points.
- ★ Key operated test facility – simple but secure.
- ★ Breakglass hammer available.

## Pushbutton Model

- ★ Stayput as standard or self reset available.
- ★ Lift Flap as standard. (Not turn and push model).

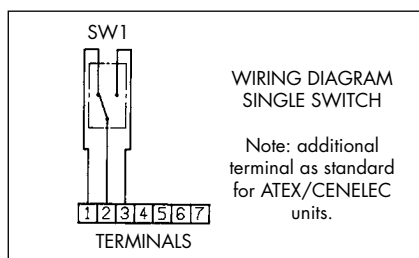
\*Note: Deformable operating element does not comply with BS5839 Part 2.



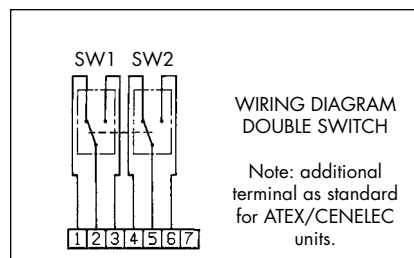
In addition to the BG & PB range of call points MEDC offer a range of stainless steel units. Details are available on request.

# Technical Specification

MODEL	BGW & PBW	*BGUL & PBUL	BGE & PBE	BGI & PBI
PROTECTION	Weatherproof/ dust proof	Explosion Protected Class I, Div 2 Class II, Div 2	Explosion Protected EExed (Increased Safety)	Explosion Protected EExia (Intrinsically Safe)
CERTIFICATION	Weatherproof/ dust proof  IP66/IP67	UL Listed to Class I, Div 2, Groups A-D BGUL & PBUL Class II, Div 2, Groups F & G (PBUL only)  Listing No. E186629  UL listed for ordinary locations Listing No. S8117  *Refer to UL data sheet at rear of catalogue for complete information	ATEX approved Ex II 2GD BAS02ATEX2105X (BG & PB)  EExedIICT6 (switch only) EExedmIICT4 (other versions) CENELEC EN50014 EN50019 EN50018 EN50028 Suitable for use in Zones 1 & 2  <b>Chinese Certification (PBE &amp; BGE):</b> CQST – Exed IIC T6 (switch only) Exedm IIC T4 (other versions)  <b>GOST 'R' Certification (PBE &amp; BGE):</b> Exedm IIC T6 Exedm IIC T4 (other versions) Russian Fire (VNIIPO) Approved  <b>Brazilian (Inmetro) Certification:</b> BR-Ex emd IIC T4 or BR-Ex ed IIC T6	ATEX approved Ex II 1GD Baseefa 03ATEX0084X (BG & PB)  EExia IIC T4 CENELEC EN50014 EN50020 Suitable for use in Zones 0, 1 & 2 <b>CSA Certification to C22.2 (PBI only):</b> Nos.0-M, 0.4-M, 14-M, 25, 30-M, 94, 142-M1987, 157-M1987, 157-92, Enclosure Type 4. T4A Class I Groups A, B, C & D Cert. No. 79120 <b>GOST 'R' Certification (PBI &amp; BGI):</b> Exia IIC T4 Russian Fire Approved (VNIIPO) <b>GOST 'K' Certification (PBI only):</b> Exia IIC T4 <b>Chinese Certification (PBI &amp; BGI):</b> CQST – Exia IIC T4  <b>Brazilian (Inmetro) Certification:</b> BR-Ex ia IIC T4
VOLTAGE	Up to 254V	Up to 240V	Up to 250V	Up to 28V (IS)
CERTIFIED TEMPERATURE	-40°C to +55°C Weatherproof	-25°C to +55°C (PBUL) -25°C to +55°C (BGUL) UL Version	-20°C to +50°C	ATEX/CENELEC -40°C to +70°C (PBI) ATEX/CENELEC -40°C to +50°C (BGI) CSA -50°C to +40°C (PBI only)
INGRESS PROTECTION	IP66 & 67.			
BRITISH STANDARD FOR CALL POINTS	BS 5839 : Part 2 : 1983 (BG).			
TERMINALS	6 x 2.5mm <sup>2</sup> – standard (BGUL only). 7 x 2.5mm <sup>2</sup> – standard. 9 x 2.5mm <sup>2</sup> optional – up to 60V only.			
SWITCH RATINGS (1 or 2 changeover switches fitted)	DC - 0-30v 30-50 AC - 0-254V Note: UL versions Max Rating 240VAC, 3A			5A (resistive) or 3A (inductive) 1A resistive or inductive 5A resistive or inductive
CABLE ENTRIES	Up to 4 entries, M16 or M20 top and bottom (1/2" NPT available on UL version).			
WEIGHT	1.2 kg. (Varies with model & entries).			
MATERIAL	Anti static U.V. resistant glass reinforced polyester.			
FINISH	Red epoxy painted finish as standard or to Customer's specification.			
RESISTORS & DIODES	Various configurations available on versions up to 24V and all "IS" versions. (Minimum Resistor value 100ΩPBE/BGE, 470ΩPBI/BGI).			
EARTH CONTINUITY	Internal & external earth continuity is provided via an optional earth plate.			
LED INDICATION	A high intensity red LED can be fitted as an optional extra to indicate operation on versions up to 24V and all "IS" versions.			
LABELLING	BG Glass label - reads either (1) Fire Break glass – press here (2) Break glass – press here (3) Worded to Client's requirements. Rivetted on. PB & BG Duty label - worded to Client's requirements. Screwed on. PB & BG Tag label - worded to Client's requirements. Screwed on.			

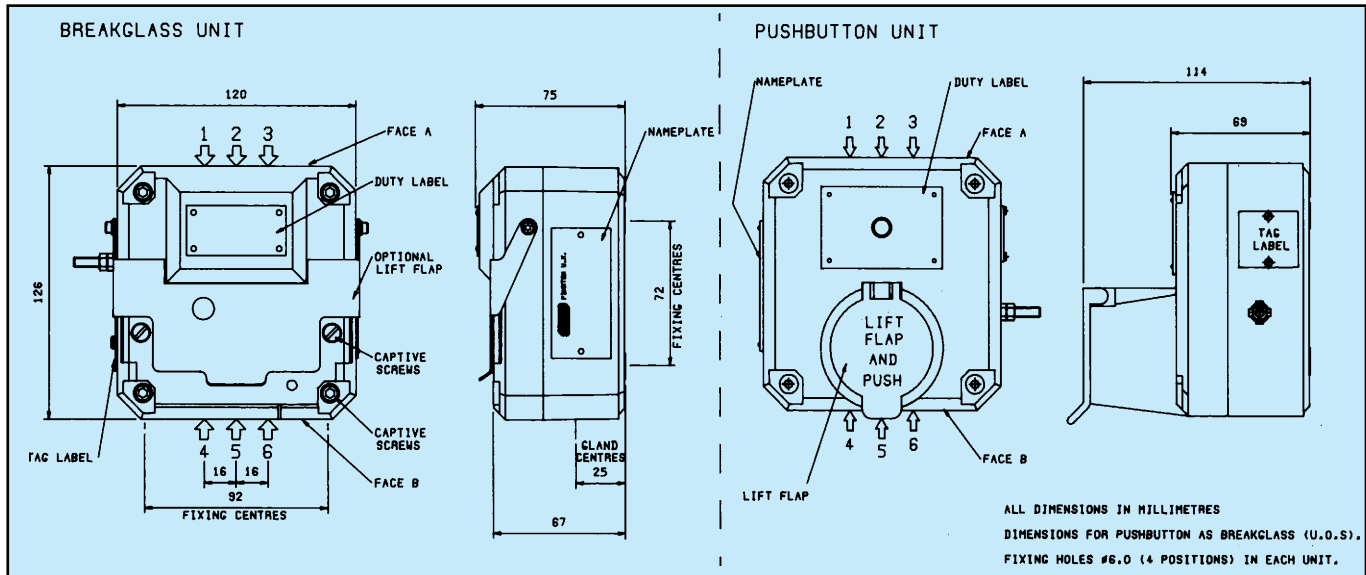


Basic single changeover switch wiring diagram



Basic double changeover switch wiring diagram

For versions containing inline and end of line resistors or diodes, please specify your requirements.



## Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

### Standard products available ex-stock as follows:

Product	Description
<b>BGIB4B6B1DSN6R</b>	Intrinsically safe, ATEX approved Ex II 1GD, certified EExia, T4, Zones 0, 1 & 2, glass label 'Fire Break Glass Press Here', single switch, no features, 2 x 20mm bottom entry, red finish.
<b>BGEB4B6B1DSN6R</b>	Explosion protected, ATEX approved Ex II 2GD, certified EExed, IIC T6, Zones 1 & 2, glass label 'Fire Break Glass Press Here', single switch, no features, 2 x 20mm bottom entry, red finish.
<b>BGWN4B6B1ASN6R</b>	Weatherproof, uncertified, glass label 'Fire Break Glass Press Here', single switch, no features, 2 x 20mm bottom entry only, red finish.

Model	Certification	Entries	Labels	Switches	Features	Terminals	Finish
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Model</b>	<b>Entries</b>	<b>Code</b>	<b>Labels</b>	<b>Code</b>	<b>Features</b>	<b>Code</b>	<b>Finish</b>
BG	16mm	*A	None	0	None	N	Red (Standard)
PB	20mm	*B	Glass label (1) reqd.	1	LED	A	Natural Black
	1/2" NPT	*C	Glass label (2) reqd.	2	Lift Flap (BG only)	B	Blue
	*Prefix entry size (see diagram above) with entry position code e.g. 1A, 2A.		Glass label (3) reqd.	3	Resistor Series	*C	Yellow
	UL & CSA versions only available with 1/2" NPT entries.		Duty label reqd.	4	Resistor EOL	*D	Grey
			Tag label reqd.	5	Diode†	E	Yellow/Black
			Specify wording on 3, 4 or 5 as required.		Earth Continuity**	F	Stripes
					Turn & Push (PB only)†	T	Other – specify
					Self reset (PB only)	M	
					Resistor Series & EOL‡ *S		
					Plastic element replaces Break glass	P	
					*Specify values		
					†Not available for UL/CSA versions.		
					‡Choose for BGE or PBE only – on BG1/W or PBI/W choose C & D		
					**Must be selected when selecting CSA certification		
<b>Certification</b>	<b>Code</b>		<b>Switches</b>	<b>Code</b>	<b>Terminals</b>	<b>Code</b>	
ATEX/CENELEC – EExe	EB		Single changeover	*S	*6 x 2.5mm <sup>2</sup> (standard)	6	*BGUL only available with six terminals
ATEX/CENELEC – EExi	IB		Double changeover	*D	7 x 2.5mm <sup>2</sup> (standard)	7	
CSA – Exi (PBI only)	IC		*Prefix with voltage A for A.C. – D for D.C. except for BGI.		9 x 2.5mm <sup>2</sup> (optional)	9	
UL – Listed	UL						
UL - Ordinary locations	UW						
GOST 'R'* – Exi	IG						
GOST 'R'* – Exe	EG						
GOST 'K' – Exi (PBI only)	IK						
Chinese – Exe	EQ						
Chinese – Exi	IQ						
Inmetro – Exe	EM						
Inmetro – Exi	IM						
Uncertified	WN						
			*VNIPO approved as standard				



All the above specifications, dimensions, weights and tolerances are nominal (typical) and MEDC reserve the right to vary all data without prior notice. No liability is accepted for any consequence of use.