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

Features
- Polyester enclosure – light, strong and not subject to corrosion.
- 2 models:
  1. Breakglass.
  2. 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.
- Lift flap available for extra protection against inadvertent operation.
- Optional LED – this indicates that the unit has been operated Earth continuity option for metal glands.
- 1 or 2 changeover switches.
- Captive cover screws.
- SIL 2 Certified

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) EExed IICT6 (switch only) EExedm IICT4 (other versions) CENELEC EN50014 EN50019 EN50018 EN50028 Suitable for use in Zones 1 & 2 **Chinese Certification (PBE & BGE):** CQST – Exed IIC T6 (switch only) Exedm IIC T4 (other versions) **GOST 'R' Certification (PBE & BGE):** Exedm IIC T6 Exedm IIC T4 (other versions) Russian Fire (VNIIPO) Approved **Brazilian (Inmetro) Certification:** BR-Ex emd IIC T4 or BR-Ex ed IIC T6 SIL 2 Certification to 61508. Cert. No. Sira 11013 (BGE only) American Bureau of Shipping Type Approval BGE only	ATEX approved Ex II 1GD Baseefa 03ATEX0084X (BG & PB) EExia IIC T4 CENELEC EN50014 EN50020 Suitable for use in Zones 0, 1 & 2 **CSA Certification to C22.2 (PBI only):** 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 **GOST 'R' Certification (PBI & BGI):** Exia IIC T4 Russian Fire Approved (VNIIPO) **GOST 'K' Certification (PBI only):** Exia IIC T4 **Chinese Certification (PBI & BGI):** CQST – Exia IIC T4 **Brazilian (Inmetro) Certification:** 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 2.5mm2 – standard (BGUL only). Code: 6* 7 x 2.5mm2 – standard. Code: 7 9 x 2.5mm2 optional – up to 60V only. Code: 9		
SWITCH RATINGS (1 or 2 changeover switches fitted)		DC - 0-30V 5A (resistive) or 3A (inductive) 30-50 1A resistive or inductive AC - 0-254V 5A resistive or inductive *Note: UL versions Max Rating 240VAC, 3A*		NOT APPLICABLE
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.		

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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.
	PB & BG Duty label - worded to Client's requirements. Rivetted on.
	PB & BG Tag label - worded to Client's requirements. Screwed on.

WIRING DIAGRAM SINGLE SWITCH

Note: additional terminal as standard for ATEX/CENELEC units.

WIRING DIAGRAM DOUBLE SWITCH

Note: additional terminal as standard for ATEX/CENELEC units.
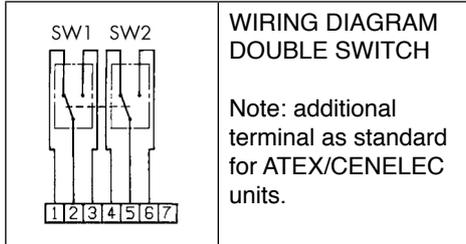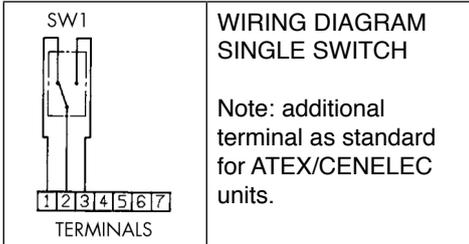
For versions containing inline and end of line resistors or diodes, please specify your requirements.

Basic single changeover switch wiring diagram

Basic double changeover switch wiring diagram
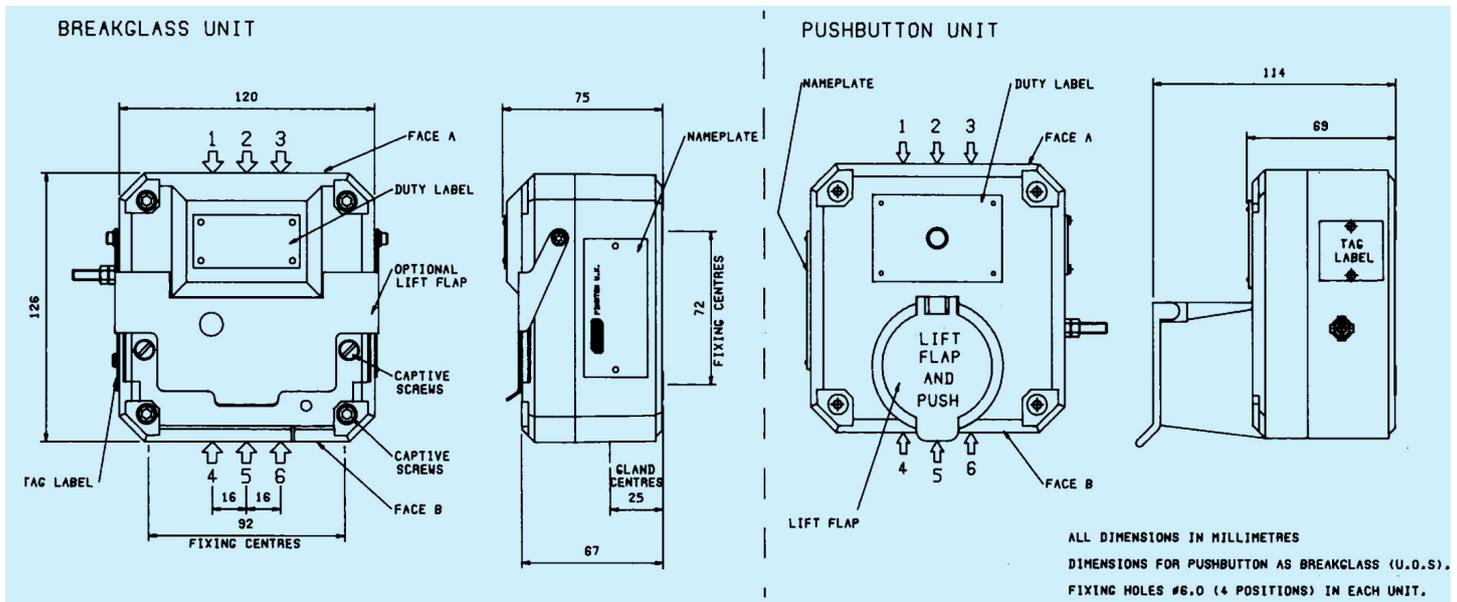
Ordering Requirements
The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

Standard products available ex-stock as follows:

Product	Description
BGIB4B6B1DSN6R	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.
BGEB4B6B1DSN6R	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.
BGWN4B6B1ASN6R	Weatherproof, uncertified, glass label 'Fire Break Glass Press Here', single switch, no features, 2 x 20mm bottom entry only, red finish.

(A) Model:

Model
BG
PB

(B) Certification:

Certification	Code
ATEX/CENELEC – EExe	EB
ATEX/CENELEC – EExi	IB
CSA – Exi (PBI only)	IC
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 – Ex ed	EM
Inmetro – Exi	IM
Uncertified	WN
*VNIIPO approved as standard	

(C) Entries:

Entries	Code
M16	*A
M20	*B
1/2" NPT	*C
*Prefix entry size (see diagram above) with entry position code e.g. 1A, 2A, 4B, 6B	
UL & CSA versions only available with 1/2" NPT entries.	

(D) Labels:

Labels	Code
None	0
Glass label (1) reqd.	1
Glass label (2) reqd.	2
Glass label (3) reqd.	3
Duty label reqd.	4
Tag label reqd.	5
Specify wording on 3, 4 or 5 as required.	

(E) Switches:

Switches	Code
Single changeover	*S
Double changeo-ver	*D
*Prefix with voltage A for A.C. – D for D.C. except for BGI.	

(F) Features:

Features	Code
None	N
LED	A
Lift Flap (BG only)	B
Resistor Series	*C
Resistor EOL	*D
Diode†	E
Earth Continuity**	F
Turn & Push (PB only)†	T
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 BGI/W or PBI/W choose C & D **Must be selected when selecting CSA certification	

(G) Terminals:

Terminals	Code
*6 x 2.5mm2 (standard)	6
7 x 2.5mm2 (standard)	7
9 x 2.5mm2 (optional)	9
*BGUL only available with six terminals	

(H) Finish:

Finish	Code
Red (Standard)	R
Natural Black	N
Blue	B
Yellow	Y
Grey	G
Yellow/Black Stripes	X
Other – specify	S

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

ORDER CODE:

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)