

## Ex de, Intrinsically Safe (Ex ia), Weatherproof BG Range



### Features

- ATEX certified.
- IECEx certified.
- UL listed for Haz locs.
- UL listed for Ord locs
- CUTR certified.
- Chinese (CQST) certified.
- Brazilian (Inmetro) certified.
- Chinese Compulsory Certification for Fire systems (CCC) certified.
- IP66 and IP67.
- Corrosion free GRP construction.
- SIL 2 certified.
- A variety of colours available.
- Up to 9 terminals available.
- Optional LED – indicates that the unit has been operated.
- Earth continuity option for metal glands.
- 1 or 2 changeover switches.
- Captive cover screws.
- Key operated test facility – simple but secure.
- Breakglass hammer available.

### Introduction

These manual alarm Call Points have been designed for use in hazardous locations and harsh environmental conditions. The Glass Reinforced Polyester enclosures are suitable for use both onshore and offshore, where light weight combined with a high level of corrosion resistance is required.

The break glass is covered by a membrane which protects the operator from glass fragments meaning that no hammer is required to activate the unit.

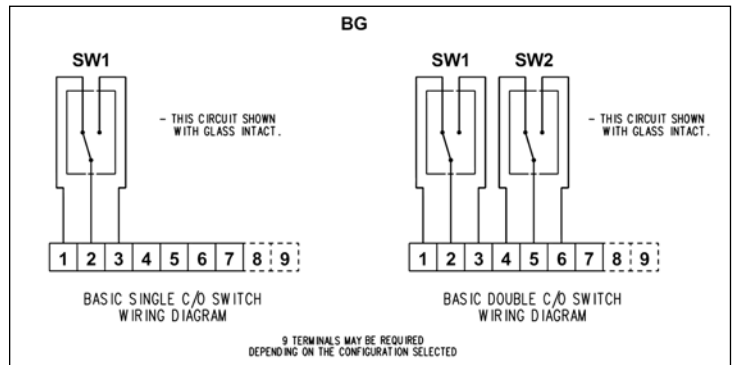
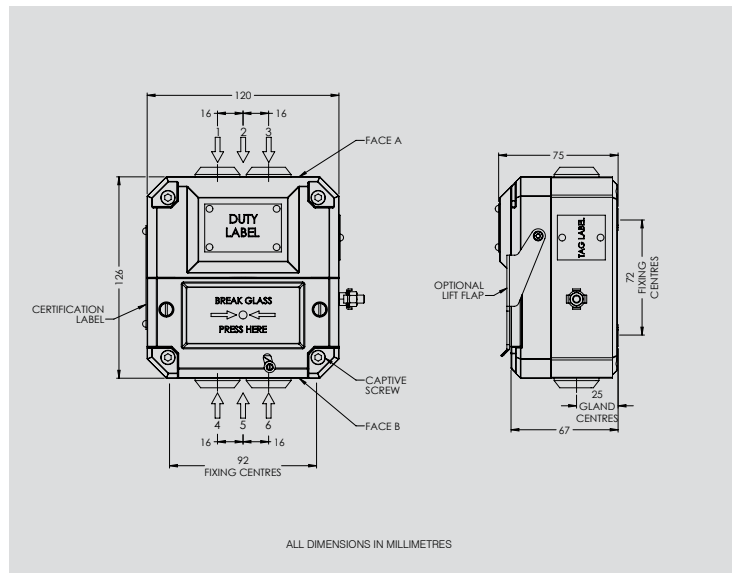
A plastic 'break glass' or deformable operating element is available to replace the break glass. Once the flexible element is pressed it will bend but will not break. The unit is reset by repositioning the element.



# Certification and Specification

<b>ATEX Ex de:</b>	Cert. no. BAS02ATEX2105X. ATEX Approved Ex II 2G. Certified to: EN60079-0, EN60079-1, EN60079-7. Ex de IIC T6 Gb switch only. Ex de mb IIC T6 Gb with LED.
<b>ATEX Ex ia:</b>	Ex de mb IIC T4 Gb with resistors & diodes. Cert. no. Baseefa 03ATEX0084X. ATEX Approved Ex II 1GD Certified to: EN60079-0, EN60079-11.
<b>IECEX Ex ia:</b>	Ex ia IIC T4 Ga, Ex ia IIIC T135°C Da. Cert. no. IECEX BAS 12.0093X. Certified to: IEC 60079-0, IEC 60079-11.
<b>UL:</b>	Ex ia IIC T4 Ga, Ex ia IIIC T135°C Da. Listing no. E186629 UL listed to Class 1, Div 2. Groups A – D. UL listed for Ordinary Locations. Listing no. S8117
<b>CUTR Ex ed:</b>	2Ex ed IIC T6, DIP A21 T85°C IP66/IP67 (switch only). 2Ex e md IIC T4, DIP A21 T135°C IP66/IP67 (other versions).
<b>CUTR Ex ia:</b>	0Ex ia IIC T4. Russian Fire Approved.
<b>Inmetro Ex de:</b>	Ex de mb IIC T4 Gb, Ex de IIC T6 Gb.
<b>Inmetro Ex ia:</b>	Ex ia IIC T4 Ga.
<b>CQST Ex de:</b>	Ex de IIC T6 (switch only), Ex de m IIC T4 (other versions).
<b>CQST Ex ia:</b>	Ex ia IIC T4.
<b>CCCF:</b>	Chinese Compulsory Certification for Fire systems (CCCF). Ex de only.
<b>SIL:</b>	SIL 2 certified to IEC 61508. Cert no. Sira 11013
<b>Type Apps:</b>	American Bureau of Shipping type approval (ABS).

<b>Material:</b>	Anti-static UV resistant glass reinforced polyester.
<b>Finish:</b>	Red painted finish as standard or to customer specification.
<b>Voltage:</b>	Up to 254V a.c. Up to 28V d.c.
<b>Weight:</b>	1.2 kg. (Varies with models and entries).
<b>Ingress Protection:</b>	IP66 & IP67.
<b>Entries:</b>	Up to 4 entries, M16 or M20 top and bottom (1/2" NPT available on UL version).
<b>Terminals:</b>	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.
<b>Resistors:</b>	Various configurations available on versions up to 24V and all 'IS' versions. (Minimum Resistor value 100ΩPBE/BGE, 470ΩPBI/BGI).
<b>Earth Continuity:</b>	Internal and external earth continuity is provided with an optional earth plate.
<b>LED Indication:</b>	A high intensity red LED can be fitted as an optional extra to indicate operation on versions up to 24V and all 'IS' versions.
<b>Labelling:</b>	BG Glass label – reads either (1) Fire Break glass – press here. (2) Break glass – press here. (3) Worded to customer requirements. (7) Dot and arrows – no text. Duty label – worded to customer requirements. Riveted on. Tag label – worded to customer requirements. Screwed on.
<b>Switch Ratings:</b>	d.c. 0-30v 5A (resistive) or 3A (inductive) (1 or 2 changeover switches fitted) 30-50v 1A (resistive or inductive) a.c. 0-254V 5A (resistive or Inductive)



## Temperature

Model	BGW	BGUL	BGE	BGI
	-40°C to +70°C	-25°C to +55°C†	-40°C to +70°C*	-40°C to +70°C

\* -35°C to +70°C with LED, -20°C to +50°C for Inmetro.

† -25°C to +50°C With resistors or LED fitted.

## Ordering Requirements

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

Note: For CCCF units use the following code: BGEQF4B6B74DSA\_9R. Add a code in the blank space only if resistors are required. The possible codes are C, D or S as per the options box below.

Model	Certification	Entries	Labels	Voltage	Switches	Options	Terminals	Finish
BG								
<b>Entries</b>		<b>Code</b>	<b>Label</b>		<b>Code</b>	<b>Options</b>		<b>Code</b>
M16		*A	Glass label (1) reqd.		1	None		N
M20		*B	Glass label (2) reqd.		2	LED		A
1/2" NPT		*C	Glass label (3) reqd.		3*	Lift flap		B
			Duty label reqd.		4*	Resistor series		C*
			Tag label reqd.		5*	Resistor EOL		D*
			Glass label (7) reqd.		7	Diode		E†
						Earth continuity		F
						Resistor series and EOL		S*†
						Plastic element replaces		P
						Break glass		
						Break glass hammer		H
<b>Certification</b>		<b>Code</b>						
ATEX/CENELEC - Ex de		EB						
ATEX/CENELEC - Ex ia		IB						
IECEX - Ex ia		IJ						
UL - Listed		UL						
UL - Ordinary Locations		UW						
CUTR - Ex ia		IG						
CUTR - Ex ed		EG						
CQST - Ex de		EQ†						
CQST/CCCF - Ex de		EQF						
CQST - Ex ia		IQ†						
Inmetro - Ex ed		EM						
Inmetro - Ex ia		IM						
Uncertified*		WN						
			<b>Voltage</b>		<b>Code</b>			
			a.c.		A			
			d.c.		D			
						<b>Terminals</b>		<b>Code</b>
						6 x 2.5mm (UL standard)		6*
						7 x 2.5mm (standard)		7
						9 x 2.5mm (optional)		9

\* Specify wording on 3, 4 or 5 as required.

† Not suitable for use in China on fire alarm systems.

\* Specify values

† Choose for BGE only - on the BGI/W, choose C & D.

‡ Not available for UL versions.

\* BGUL only available with six terminals