Crouse-Hinds by EATON

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

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.

Features

- ATEX certified.
- IECEx certified.
- UL listed for Haz locs.
- UL listed for Ord locs
- CUTR certified.
- Chinese (CQST) certified.
- Brazilian (Inmetro) 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.

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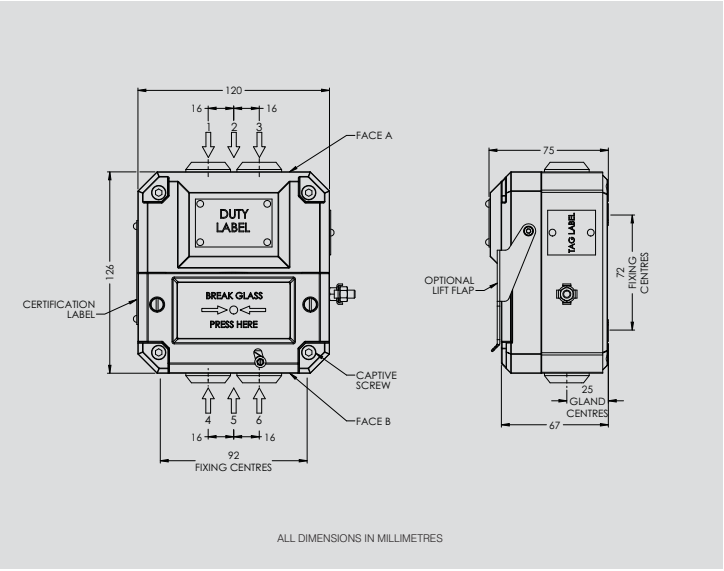
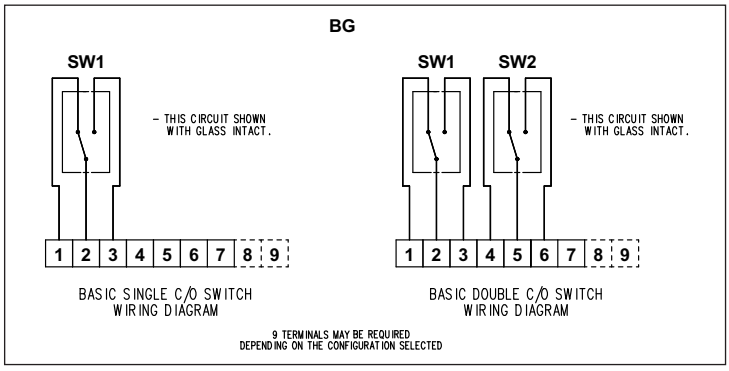
Certification and Specification

ATEX Ex de:	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. Ex de mb IIC T4 Gb with resistors & diodes.
ATEX Ex ia:	Cert no. Baseefa 03ATEX0084X. ATEX Approved Ex II 1GD Certified to: EN60079-0, EN60079-11. Ex ia IIC T4 Ga, Ex ia IIIC T135ºC Da.
IECEx Ex ia:	Cert. no. IECEx BAS 12.0093X. Certified to: IEC 60079-0, IEC 60079-11. Ex ia IIC T4 Ga, Ex ia IIIC T135ºC Da.
UL:	Listing no. E186629 UL listed to Class 1, Div 2. Groups A – D. UL listed for Ordinary Locations. Listing no. S8117
CUTR Ex de:	2Ex de IIC T6 Gb (switch only), 2Ex de mb IIC T4 (other versions). Russian Fire Approved.
CUTR Ex ia:	0Ex ia IICT4. Russian Fire Approved.
Inmetro Ex de:	Ex de mb IIC T4 Gb, Ex de IIC T6 Gb.
Inmetro Ex ia:	Ex ia IIC T4 Ga.
CQST Ex de:	Ex de IICT6 (switch only), Ex de m IICT4 (other versions).
CQST Ex ia:	Ex ia IIC T4.
SIL:	SIL 2 certified to IEC 61508. Cert no. Sira 11013
Type Apps:	American Bureau of Shipping type approval (ABS).
Material:	Anti-static UV resistant glass reinforced polyester.
Finish:	Red painted finish as standard or to customer specification.
Voltage:	Up to 254V a.c. Up to 28V d.c.
Weight:	1.2 kg. (Varies with models and entries).
Ingress Protection:	IP66 & IP67.
Entries:	Up to 4 entries, M16 or M20 top and bottom (1/2" NPT available on UL version).
Terminals:	6 x 2.5mm² – standard (BGUL only). 7 x 2.5mm² – standard. 9 x 2.5mm² optional – up to 60V only.
Resistors:	Various configurations available on versions up to 24V and all 'IS' versions. (Minimum Resistor value 100ΩPBE/BGE, 470ΩPBI/BGI).
Earth Continuity:	Internal and external earth continuity is provided with 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 customer requirements. (7) Dot and arrows - no text. Duty label – worded to customer requirements. Riveted on. Tag label – worded to customer requirements. Screwed on.
Switch Ratings: **(1 or 2 changeover switches fitted)**	d.c. 0-30v 5A (resistive) or 3A (inductive) 30-50v 1A (resistive or inductive) a.c. 0-254V 5A (resistive or Inductive)





Temperature

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

*-35ºC to +70ºC with LED, -20ºC to +50ºC 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.

Model: BG

Certification

Certification	Code
ATEX/CENELEC - Ex de	EB
ATEX/CENELEC - Ex ia	IB
IECEx - Ex ia	IJ
UL - Listed	UL
UL -Ordinary Locations	UW
CUTR - Exi	IG
CUTR - Ex de	EG
CQST - Ex ed	EQ†
CQST - Exi	IQ†
Inmetro - Ex ed	EM
Inmetro - Exi	IM
Uncertified*	WN

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

Entries

Entries	Code
M16	*A
M20	*B
1/2" NPT	*C

* Prefix entry size (see diagram above) with entry position code e.g. 4B6B.
UL versions only available with 1/2" NPT entries.

Labels

Label	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*
Glass label (7) reqd.	7

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

Voltage

Voltage	Code
a.c.	A
d.c.	D

Switches

Switches	Code
Single changeover	S
Double changeover	D

Options

Options	Code
None	N
LED	A
Lift flap	B
Resistor series	C*
Resistor EOL	D*
Diode	E‡
Earth continuity	F
Resistor series and EOL	S*†
Plastic element replaces Break glass	P
Break glass hammer	H

* Specify values
† Choose for BGE only - on the BGI/W, choose C & D.
‡ Not available for UL versions.

Terminals

Terminals	Code
6 x 2.5mm (UL standard)	6*
7 x 2.5mm (standard)	7
9 x 2.5mm (optional)	9

* BGUL only available with six terminals

Finish

Finish	Code
Red (standard)	R
Natural Black	N
Blue	B
Yellow	Y
Grey	G
Yellow/Black stripes	X
Special	S*

* Please specify