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



### Introduction

These new and improved manual alarm call points have been designed for use in hazardous locations and harsh environmental conditions. The GRP enclosure is suitable for use onshore or offshore where light weight combined with a high level of corrosion resistance is required. The unit is now supplied with a lift flap that latches firmly in place.

#### **Features**

- ATEX certified.
- IECEx certified.
- UL listed for Haz locs.
- UL listing for Ord locs.
- CUTR certified.
- Chinese (CQST) certified.
- Brazilian (Inmetro) certified.
- SIL 2 certified.
- IP66 and IP67.
- Corrosion free GRP construction.
- 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.
- Lift Flap as standard.
- Latching as standard. Self reset (momentary) available.









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## Certification and Specification

ATEX Ex de: Cert. no. BAS02ATEX2105X. ATEX Approved Ex II 2GD.

EN60079-0, EN60079-1, EN60079-7, EN60079-31. Ex de IIC T6 Gb, Ex tb IIIC T85°C Db switch only. Ex de mb IIC T6 Gb, Ex tb IIIC T85°C Db with LED.

Ex de mb IIC T4 Gb, Ex tb IIIC T135°C Db 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 T135°C Da.

Cert. no. IECEx BAS 12.0093X.

Certified to: IEC 60079-0, IEC 60079-11. Ex ia IIC T4 Ga, Ex ia IIIC T135°C Da.

**UL:** Listing no. E186629

**IECEx Ex ia:** 

UL listed to Class 1, Div 2. Groups A-D.

UL listed for Ordinary Locations. Listing no. S8117

CSA: Cert. no. 79120-3. Class 1 groups A, B, C & D.

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CUTR Ex ed: 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).

Russian Fire Approved.

**CUTR Ex ia:** 0Exia IICT4. Russian Fire Approved.

Inmetro Ex de: Ex de IIC T6 Gb (Switch only), Ex de mb IIC T4 Gb (other versions).

Inmetro Ex ia: Ex ia IIC T4 Ga.

**CQST Ex de:** Ex de IIC T6 (switch only), Ex de mb IIC T4 (other versions).

**CQST Ex ia:** Ex ia IIC T4

Type Apps: American Bureau of Shipping type approval (ABS) PBI only.

SIL: SIL2 Certification to IEC61508. Cert. No. FSP1400

**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.

Labelling:

**Entries:** Up to 4 entries, M16 or M20 top and bottom

(1/2" NPT available on UL version).

**Terminals:** 7 x 2.5mm<sup>2</sup> – standard.

 $9 \times 2.5 \text{mm}^2 \text{ optional} - \text{up to 60V only}.$ 

Resistors: Various configurations available on versions up to 24V and all 'IS'

versions. (Minimum Resistor value 100 $\Omega$ PBE, 470 $\Omega$ PBI).

Earth Continuity: Internal and external earth continuity is provided with an optional

earth plate.

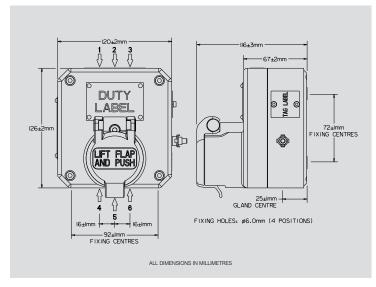
**LED Indication:** A high intensity red LED can be fitted as an optional extra to indicate operation on versions up to 24V and all 'IS' versions.

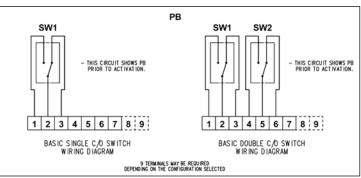
Duty label – worded to customers requirements. Riveted on.

Tag label – worded to customers requirements. Screwed on.

Switch Ratings: d.c. 0-30v 5A (resistive) or 3A (inductive)

(1 or 2 changeover 30-50v 1A (resistive or inductive) switches fitted) a.c. 0-254V 5A (resistive or Inductive)





#### **Temperature**

Model	PBW	PBUL	PBE	PBI	CSA
	$-40^{\circ}\text{C} \text{ to } +70^{\circ}\text{C}$	-25°C to +55°C†	$-40^{\circ}$ C to $+70^{\circ}$ C*	$-40^{\circ}\text{C} \text{ to } +70^{\circ}\text{C}$	-50°C to +40°C

- $^{\star}$  -35°C to + 70°C with LED , -20°C to  $+50^{\circ}\text{C}$  for Inmetro.
- $_{\dagger}$  -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.

