# **CROUSE-HINDS**

PB manual call point range

## Ex de, Ex ia, weatherproof



## Overview

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 certified for Haz locs
- UL certified for Ord locs
- TR CU certified
- Chinese (CQST) certified
- Brazilian (INMETRO) certified
- CCOE certified
- SIL 2 certified
- IP66 and IP67

- Corrosion free GRP construction
- 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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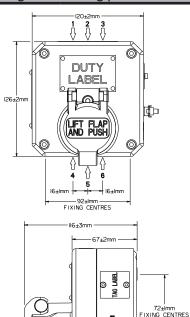


### General arrangement drawing (all dimensions in mm)

Certifications					
ATEX Ex de	Cert. no. BAS02ATEX2105X. ATEX Approved Ex II 2GD EN60079-0, EN60079-1, EN60079-7, EN60079-31 Ex de IICT6 Gb, Ex tb IIICT85°C Db switch only Ex de mb IICT6 Gb, Ex tb IIICT85°C Db with LED Ex de mb IICT4 Gb, Ex tb IIICT135°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 IICT4 Ga , Ex ia IIICT135°C Da				
IECEx Ex ia	Cert. no. IECEx BAS 12.0093X Certified to: IEC 60079-0, IEC 60079-11 Ex ia IICT4 Ga, Ex ia IIICT135°C Da				
UL	Listing no. E186629 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				
TR CU Ex ed	2Ex ed IICT6, DIP A21T85°C IP66/IP67 (switch only) 2Ex e md IICT4, DIP A21T135°C IP66/IP67 (other versions) Russian Fire Approved				
TR CU Ex ia	0Exia IICT4. Russian Fire Approved				
INMETRO Ex de	Ex de IICT6 Gb (Switch only), Ex de mb IICT4 Gb (other versions)				
CQST Ex de	Ex de IICT6 (switch only), Ex de mb IICT4 (other versions)				
CQST Ex ia	Ex ia IICT4				
Type Apps	American Bureau of Shipping type approval (ABS) PBI only				
SIL	SIL2 Certification to IEC61508. Cert no. 20151118-4786827453				
Specifications					
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	$7 \times 2.5 \text{mm}^2$ – standard $9 \times 2.5 \text{mm}^2$ optional – up to 60V only				
Resistors	Various configurations available on versions up to 24V and all 'IS' versions. (Minimum Resistor value 100ΩPBE, 470ΩPBI)				
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 As standard the LED is not provided with over current protection. The forward current (If) should be limited to 20mA				
Labelling	Duty label – worded to customers requirements. Riveted on Tag label – worded to customers requirements. Screwed on				
Switch ratings (1 or 2	d.c. 0-30v 5A (resistive) or 3A (inductive)				

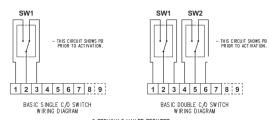
30-50v 1A (resistive or inductive)

a.c. 0-254V 5A (resistive or Inductive)



PB standard wiring configuration

25±lmm GLAND CENTRE



9 TERMINALS MAY BE REQUIRED DEPENDING ON THE CONFIGURATION SELECTED

#### Temperature

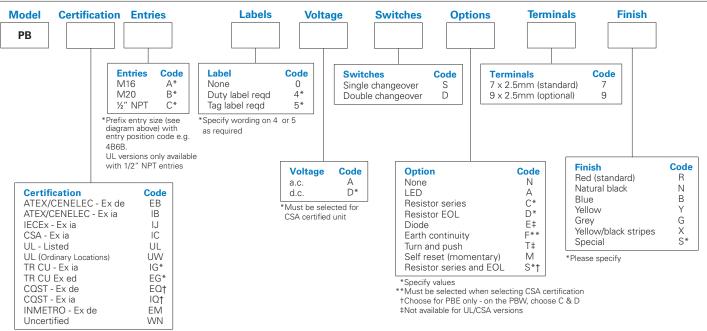
Model	PBW	PBUL	PBE	PBI	CSA
	-40°C to	-25°C to	-40°C to	-40°C to	-30°C to
	+70°C	+55°C†	+70°C*	+70°C	+40°C

<sup>\* -35°</sup>C to + 70°C with LED

#### Ordering requirements

changeover switches

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



Russian Fire Approved as standard

†Not suitable for use in China on fire alarm systems

<sup>† -25°</sup>C to +50°C with resistors or LED fitted