

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
- DNV type approval (IEC 60945)
- 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



ATEX IECEx



**THORNE &
DERRICK
INTERNATIONAL**

Thorne & Derrick
+44 (0) 191 410 4292
www.powerandcables.com

Certifications

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
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 T135°C Da
UL	Listing no. E186629 UL listed to Class 1, Div 2. Groups A,B,C & 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	1Ex d e IIC T6 Gb, Ex tb IIIC T85°C Db (switch only) 1Ex d e mb IIC T6 Gb X, Ex tb IIIC T85°C Db X (with LED) 1Ex d e mb IIC T4 Gb X, Ex tb IIIC T135°C Db X (with resistors & diodes) Russian Fire approved (Must be red and have burning house duty label)
TR CU Ex ia	0Ex ia IIC T4 Ga X, Ex ia IIIC T135°C Da Russian Fire approved (must be red and have burning house duty label)
INMETRO Ex de	Ex de IIC T6 Gb (Switch only), Ex de mb IIC T4 Gb (other versions)
CQST Ex de	Ex de IIC T6 (switch only), Ex de mb IIC T4 (other versions)
CQST Ex ia	Ex ia IIC T4
Type Approvals	American Bureau of Shipping type approval (ABS) PBI only DNV (IEC 60945)
SIL	SIL2 Certification to IEC61508. Cert no. 20151118-4786827453

Specifications

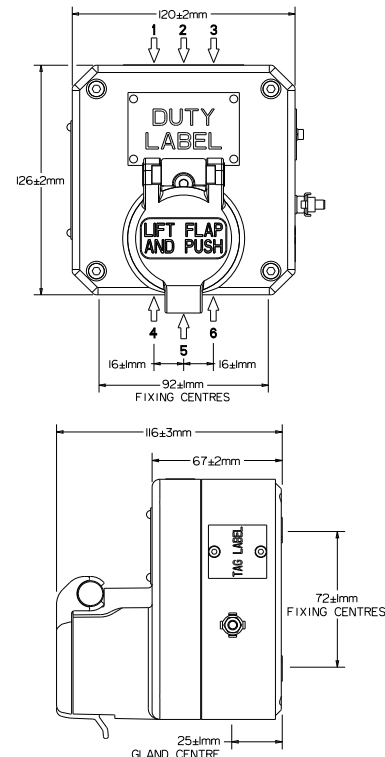
Material	Anti-static UV resistant glass reinforced polyester
Finish	Red painted finish as standard or to customer specification
Voltage	Up to 250Vac. Up to 50Vdc (model dependent)
Weight	1.2 kg. (Varies with models and entries)
Ingress protection	IP66 & IP67
Entries	Up to 4 entries, M16 or M20 top and bottom (1/2" NPT available on UL version)
Terminals	7 x 2.5mm ² – standard 9 x 2.5mm 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 changeover switches fitted)	Switch only 30Vdc 5A (resistive) or 3A (inductive) 30-50Vdc 1A (resistive or inductive) 250Vac 5A (resistive or inductive) LED 24Vdc 0.05A Resistor(s) 24Vdc 0.05A

Ordering requirements

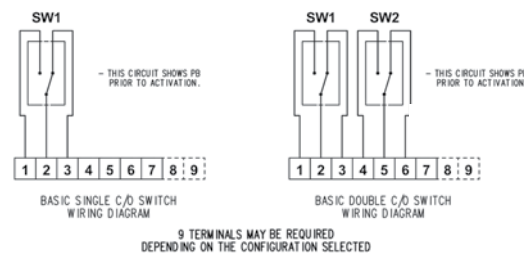
The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box

Model	Certification	Entries	Labels	Voltage	Switches	Options	Terminals	Finish
PB								
		Entries M16 A* M20 B* 1/2" NPT C*	Label None 0 Duty label reqd 4* Tag label reqd 5* Burning house duty label 8†	Switches Single changeover S Double changeover D	Terminals 7 x 2.5mm (standard) 7 9 x 2.5mm (optional) 9	Option None N LED A Resistor series C* Resistor EOL D* Diode E† Earth continuity F** Turn and push T† Self reset (momentary) M Resistor series and EOL S*†	Finish Red (standard) R† Natural black N Blue B Yellow Y Grey G Yellow/black stripes X Special S*	
		*Prefix entry size (see diagram above) with entry position code e.g. 4B6B. UL versions only available with 1/2" NPT entries	*Specify wording on 4 or 5 as required †Must be selected for Russian Fire approval	*Must be selected for CSA certified unit	*Specify values **Must be selected when selecting CSA certification †Choose for PBE only - on the PBW, choose C & D ‡Not available for UL/CSA versions	*Please specify † Must be selected for Russian Fire approval		
		Certification ATEX/CENELEC - Ex de EB ATEX/CENELEC - Ex ia IB IECEX - Ex ia IJ CSA - Ex ia IC UL - Listed UL UL (Ordinary Locations) UW TR CU - Ex ia IG TR CU Ex de EG TR CU - Ex ia Russian Fire IGF* TR CU - Ex de Russian Fire EGF* CQST - Ex de EQ† CQST - Ex ia IO† INMETRO - Ex de EM Uncertified VN	*For Russian Fire approval red housing and burning house duty label must be selected †Not suitable for use in China on fire alarm systems					

General arrangement drawing (all dimensions in mm)



PB standard wiring configuration



Temperature

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

* -35°C to +70°C with LED
 † -25°C to +50°C with resistors or LED fitted