Exed, Intrinsically Safe (Exia), Weatherproof PB Range

Features

- ATEX certified.
- IECEx certified.
- UL listed for Haz locs.
- UL listing for Ord locs.
- GOST 'R' certified.
- GOST 'K' certified.
- Chinese (CQST) certified.
- Brazilian (Inmetro) 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.

Introduction

These manual 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.
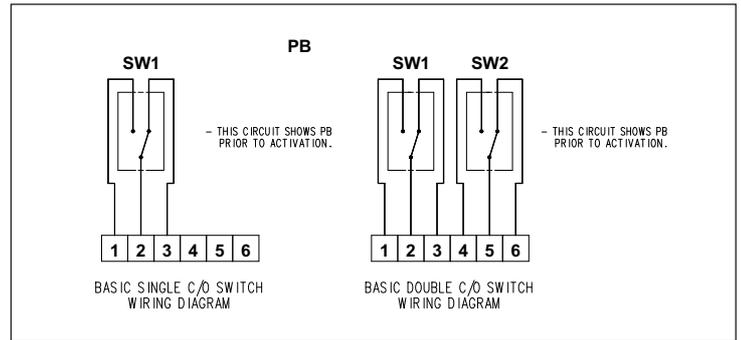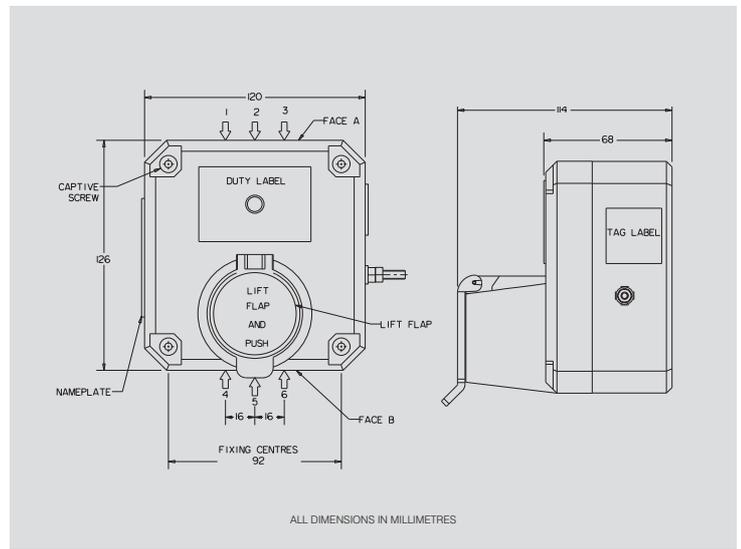
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Certification and Specification

ATEX Exe:	Cert. no. BAS02ATEX2105X. ATEX Approved Ex II 2G. Certified to: EN50014, EN50018, EN50019, EN50028. Exed IICT6 (switch only), Exedm IICT4 (other versions).
ATEX Exia:	Cert no. Baseefa 03ATEX0084X. ATEX Approved Ex II 1GD Certified to: EN60079-0, EN60079-11. Ex ia IIC T4 Ga (-40ºC ≤ Ta ≤ +70ºC), Ex ia IIIC T135ºC Da (-40ºC ≤ Ta ≤ +70ºC).
IECEx Exia:	Cert. no. IECEx BAS 12.0093X. Certified to: IEC 60079-0, IEC 60079-11. Ex ia IIC T4 Ga (-40ºC ≤ Ta ≤ +70ºC), Ex ia IIIC T135ºC Da (-40ºC ≤ Ta ≤ +70ºC).
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.
GOST R Exe:	2Exed IICT6 (switch only), 2Exemd IICT4 (other versions). Russian Fire Approved.
GOST R Exia:	Exia IICT4. Russian Fire Approved.
GOST K Exia:	Exia IICT4. Russian Fire Approved.
Inmetro Exe:	Ex de mb IIC T4 Gb, Ex de IIC T6 Gb.
Inmetro Exia:	Ex ia IIC T4 Ga.
CQST Exe:	Exed IICT6 (switch only), Exedm IICT4 (other versions).
CQST Exia:	Exia IIC T4.
Type Apps:	American Bureau of Shipping type approval (ABS). (PBI only)
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 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, 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.
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)**	d.c. 0-30v 5A (resistive) or 3A (inductive) 30-50v 1A (resistive or inductive) a.c. 0-254V 5A (resistive or Inductive)

ALL DIMENSIONS IN MILLIMETRES

BASIC SINGLE C/O SWITCH WIRING DIAGRAM

BASIC DOUBLE C/O SWITCH WIRING DIAGRAM

Temperature

Model	PBW	PBUL	PBE	PBI	CSA
	-40ºC to +70ºC	-25ºC to +55ºC	-20ºC to +50ºC	-40ºC to +70ºC	-50ºC to +40ºC

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. ***For standard products,
available ex-stock, contact sales office for details..***

Model	Certification	Entries		Labels	Voltage	Switches		Options	Terminals	Finish
PB										

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.

Certification

Certification	Code
ATEX/CENELEC - Ex ed	EB
ATEX/CENELEC - Ex ia	IB
IECEx - Ex ia	IJ
CSA - Exi	IC
UL - Listed	UL
UL -Ordinary Locations	UW
GOST 'R' - Exi	IG*
GOST 'R' - Ex ed	EG*
GOST 'K' - Exi	IK
CQST - Ex ed	EQ†
CQST - Exi	IQ†
Inmetro - Ex ed	EM
Inmetro - Exi	IM
Uncertified	WM

* Russian Fire Approved as standard.
† Not suitable for use in China on fire alarm systems.

Labels

Label	Code
None	0
Duty label reqd.	4*
Tag label reqd.	5*

* Specify wording on 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
Resistor series	C*
Resistor EOL	D*
Diode	E‡
Earth continuity	F**
Turn and push	T‡
Self reset (momentary)	M
Resistor series and EOL	S*†

* 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.

Terminals

Terminals	Code
7 x 2.5mm (standard)	7
9 x 2.5mm (optional)	9

Finish

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

* Please specify

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