CROUSE-HINDS SERIES

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



Eaton is a registered trademark.

All other trademarks are property

of their respective owners



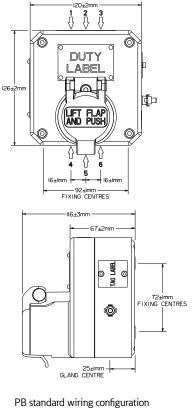
Eaton Unit B, Sutton Parkway Oddicroft Lane Sutton in Ashfield United Kingdom NG17 5FB

T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com © 2015 Eaton All Rights Reserved Printed in UK Publication No.DSMC0031/B November 2017 Please check here for latest version of the datasheet

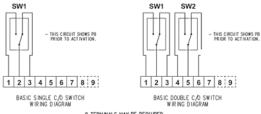
All specifications, dimensions, weights and tolerances are nominal (typical) and Eaton reserve the right to vary all data without prior notice. No liability is accepted for any consequence of use.

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 IICT4 Ga, Ex ia IIICT135°C Da			
UL	Listing no. E186629			
	UL listed to Class 1, Div 2. Groups A,B,C & D			
CSA	UL listed for Ordinary Locations. Listing no. S8117 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 ver- sion)			
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			
	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	Switch only 30Vdc 5A (resistive) or 3A (inductive)			
changeover switches fitted)	30-50Vdc 1A (resistive or inductive)			
	250Vac 5A (resistive or inductive) LED 24Vdc 0.05A			
	Resistor(s) 24Vdc 0.05A			

General arrangement drawing (all dimensions in mm)







9 TERMINALS MAY BE REQUIRED DEPENDING ON THE CONFIGURATION SELECTED

Temperature

Model	PBW	PBUL	PBE	PBI	CSA
	-40°C to	-25°C to +55°C†	-40°C to	-40°C to +70°C	-30°C to
	1700	100 01	1700	1700	140 0

* -35°C to + 70°C with LED

 \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

