CROUSE-HINDS

SM87BG & SM87PB manual call point range

Ex d, Ex ia, weatherproof



Overview

These manual fire alarm, emergency shutdown break-glass and pushbutton units have been designed for the most arduous environmental conditions.

The units are both easy to install and maintain. Intrinsically safe Ex ia and flameproof Ex d versions of each model are available.

A choice of either stainless steel or alloy makes the range suitable for either the offshore or onshore industries. Stainless steel, one of the most durable materials available on the market, is both hard wearing and corrosion resistant, increasing the life of products in harsh environments and therefore reducing maintenance costs.

Features

- Zone 0, Zone 1 and Zone 2 use*
- Ex d IICT5/T6 or Ex ia IICT4
- ATEX approved, Ex II 1G (Ex ia) or Ex II 2GD (Ex d)
- UL listed for USA and Canada (PB only). Class I, Div 1, Groups C & D
- ULC certified for Class I, Zone 1 Groups C & D
- CSA certified
- IECEx certified Gb, Db
- TR CU certified
- Chinese (CQST) certified
- Brazilian (INMETRO) certified

- CCOE certified
- SIL 2 certified (SM87PB only)
- IP66 and IP67
- DNV type approval (IEC 60945) (SM87PB only)
- Certified temperature: -55°C to
- Stainless steel or marine grade
- Robust yet lightweight
- Easy to maintain
 - *Model dependent

















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General arrangement drawing (all dimensions in mm)

ATEX Ex d	Cert. no. Baseefa03ATEX0075. ATEX Approved Ex II 2GD
	Certified to: EN60079-0, EN60079-1, EN60079-31
	Ex d IICT5/T6 Gb, Ex tb IIICT85°C/T100°C Db. IP66/IP67
ATEX Ex ia	Cert no. Baseefa 02ATEX0152X. ATEX Approved Ex II 1G
	Certified to: EN60079-0, EN60079-11, EN60079-26 Ex ia IICT4 Ga
IECEx Ex ia	Cert. no. IECEx BAS 09.0060
	Certified to: EN60079-0, EN60079-1, EN60079-31
	Ex d IIC T5/T6 Gb, Ex tb IIIC T85°/T100°C Db. IP66/IP67
	Cert. no. IECEx BAS 10.0033X Certified to: IEC60079-0, IEC60079-11, IEC60079-26
	Ex ia IICT4 Ga
UL	Listing no. E186629
	UL listed to Class 1, Div 1. Groups C & D. (SM87PBL)
ULC	Cert. no. 20091023-E320282
CCA F 1	ULC certified for Class I, Zone 1 Groups C & D
CSA Ex d	Class 1, Div 1 & 2. Group D
CSA Ex ia	Class 1, Div 1 & 2. Groups A-D
TR CU Ex d	1Ex d IIC T5/T6 Gb, Ex tb IIIC T85°/T100°C Db. IP66/IP67 Russian Fire Approved
TR CU Ex ia	OEx ia IICT4 Ga. Russian Fire Approved
INMETRO Ex d	Ex d IIC T5/T6 Gb
CQST Exd	Exd IICT85°C/T100°C
CQST Exia	Exia IICT4
Type Approvals	DNV (IEC 60945) (Stainless Steel SM87PB only)
SIL	SM87PB only - SIL2 Certification to IEC61508. Cert no. 20151118-4786827453
Specifications	
Material	Grade 316 ANC4B stainless steel or LM 25 TF marine grade alloy
Finish	Paint finish as standard or to customer specification
Voltage	Ex d 24V a.c./d.c. Ex ia 28V
Rating	2A

2 pole c/o, wired to terminals

Up to 4 x ½" or ¾" NPT UL

Will accept up to 1.5mm² cable

470R minimum (d.c. & I.S. units only)

Optional up to 4 pole (UL version 2 pole only)

 -20°C to +55°C (LED version only) UL -40°C to +70°C, -20°C to +55°C (LED version only) CSA -50°C to +55°C (Ex d), -50°C to +40°C (Ex ia) *Note: includes ATEX, IECEx, CUTR, Brazilian & Chinese versions

3.8 kg. steel (approx.) or 2.5 kg. alloy (approx)

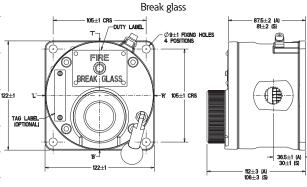
IP66 & IP67. SM87PB IP68 (35m for 40 hours)
Up to 4 x M20 or M25 ISO Ex d/Ex ia

current (If) should be limited to 20mA

Ex d* -55°C to +70°C. Ex ia*-55°C to +60°C

A red high intensity LED can be fitted for alarm indication

As standard the LED is not provided with over current protection. The forward



V05±1 CRS

TOUTY LABEL

(99±1 FXXING HOLES

4 POSITIONS

FIRE

PUSH

PUS

Push button

Both the Ex ia units and the Ex d units have the same external appearance. Also the internal components are identical throughout the range. Each unit can be wired for either NO, NC or CO contacts to customer specification

Ordering requirements

Switches

Optional indicator

Certified temp

Ingress protection

Weight

Entries

Terminals

Resistor values

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

