SM87 BG & PB Range - MANUAL CALL POINTS



Intrinsically Safe (Exia), Exd, Weatherproof



Introduction

These manual fire alarm, emergency shutdown breakglass and pushbutton units have been designed for the most arduous environmental conditions. The units are both easy to install and maintain. Intrinsically safe Exia and flameproof Exd 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.

Features

- Zone 0, Zone 1 and Zone 2 use*.
- Exia IIC T4 or Exd IIC T5/T6.
- ATEX aproved, Ex II 1G (Exia) Ex II 2GD (Exd).
- BASEEFA certified.
- UL Listed (PB only), Class I, Div 1, Groups C & D.
- CSA certified.
- IECEx certified Gb. Db.
- GOST 'R' & 'K'* certified.
- Chinese (CQST) certified.
- Brazilian (Inmetro) certified.
- IP66 and IP67.
- Certified temperature: -55°C to +70°C*.
- Stainless steel or marine grade alloy.
- Robust yet lightweight.
- Easy to maintain.

*Depending on version.





Specification

Breakglass unit, latching Type SM87BGL Lift flap, Breakglass, latching Type SM87LBGL Push button, latching, key reset Type SM87PBL. Push button, self reset Type SM87PBM

Ex d certified to IEC60079-0, IEC60079-1, IEC60079-31. **Certification:** Ex d certified to EN60079-0, EN60079-1, EN60079-31, Exia certified to IEC60079-0, IEC60079-11, IEC60079-26.

Exia certified to EN60079-0, EN60079-11, EN60079-26.

Ex d ATEX Cert. No. Baseefa03ATEX0075.

Ex II 2 GD Ex d IIC T5/T6 Gb, Ex tb IIIC T85°C/T100°C Db.

Exia ATEX Cert. No. Baseefa02ATEX0152X.

Ex II 1 G Ex ia IIC T4 Ga.

Ex d IECEx Cert. No. IECEx BAS 09.0060. Ex d IIC T5/6 Gb, Ex tb T85°C/T100°C Db. Exia IECEx Cert. No. IECEx BAS 10.0033X.

Fxia IIC T4 Ga

UL Listed: Class I. Div1 Groups C & D (PBL only).

Listing No: 186629.

CSA Certification: Class I Groups A-D I.S. version (SM87 PBI only). Class I, Div 1 & 2, Group D (Exd - SM87 PB & SM87 BG).

GOST 'R' Certification: 1Exib IIC T4, 1Exd IIC T4.

Russian Fire Approval.

GOST 'K' Certification: Exib IIC T4.

Chinese Certification: CQST - Exia IIC T4, Exd IIC T5/T6. †

Brazilian (Inmetro) Certification: Ex d IIC T5/T6 Gb, Ex ia IIC T4 Ga.

Material: Grade 316 ANC4B Stainless Steel or LM 25 TF Marine Grade Alloy.

Finish: Paint finish as standard or to customer specification.

Voltage: Exd 24V a.c./d.c. Exia 28V.

Rating: 2 amp.

Switches 2 pole c/o, wired to terminals.

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

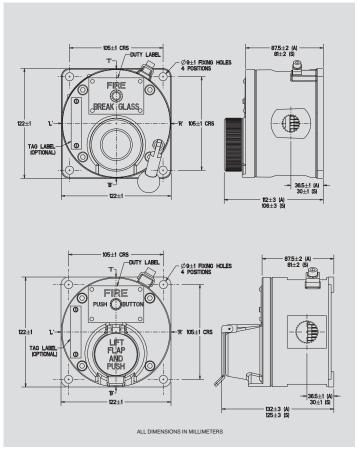
Optional Indicator: A red high intensity LED can be fitted for alarm indication.

Certified Temp: Exd* -55° C to $+70^{\circ}$ C. Exi* -55° C to $+55^{\circ}$ C. -20° C to $+55^{\circ}$ C (LED version only).

UL -40° C to $+70^{\circ}$ C, -20° C to $+55^{\circ}$ C (LED version only).

CSA -50° C to $+55^{\circ}$ C (Exd), -50° C to $+40^{\circ}$ C (Exi).

Up to 4 x M20 or M25 ISO Exd/Exia. **Entries:** *Note: includes ATEX, IECEx, GOST, Brazilian & Chinese versions. Up to 4 x 1/2" or 3/4" NPT UL Weight: 3.8 kg. steel (approx.) or 2.5 kg. alloy (approx) Terminals: Will accept up to 2.5mm2 cable Ingress Protection: IP66 and IP67. SM87 PB IP68 (40m for 8 hours) **Resistor Values:** 470R minimum (d.c. & I.S. units only)



Both the Exia units and the Exd 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

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.

