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*
- ATEX certified
- UL listed for USA and Canada (SM87PBL only). Class I, Div 1, Groups C & D
- ULC certified (SM87PBL only) for Class I, Zone 1 Groups C & D
- CSA certified
- IECEx certified
- TR CU certified
- Chinese (CQST) certified
- Brazilian (INMETRO) certified
- Russian Fire 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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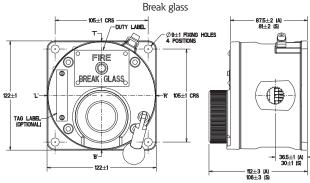
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General arrangement drawing (all dimensions in mm)

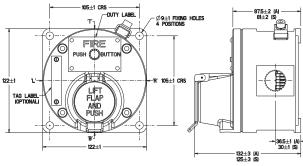
Certifications		
ATEX Ex d	Cert. no. Baseefa03ATEX0075. ATEX Approved Ex II 2GD Certified to: EN60079-0, EN60079-1, EN60079-31 Ex d IICT5/T6 Gb, Ex tb IIICT85°C/T100°C Db. IP66/IP67	_
ATEX Ex ia	Cert no. Baseefa 02ATEX0152X. ATEX Approved Ex II 1GD Certified to: EN60079-0, EN60079-11 Ex ia IICT4 Ga, Ex ia IIICT135°C Da	
IECEx Ex d	Cert. no. IECEx BAS 09.0060 Certified to: EN60079-0, EN60079-1, EN60079-31 Ex d IICT5/T6 Gb, Ex tb IIICT85°/T100°C Db. IP66/IP67	
IECEx Ex ia	Cert. no. IECEx BAS 10.0033X Certified to: IEC60079-0, IEC60079-11, Ex ia IICT4 Ga, Ex ia IIICT135°C Da	
UL	Listing no. E186629 UL listed to Class 1, Div 1. Groups C & D. (SM87PBL)	
ULC	Cert. no. 20091023-E320282 ULC certified for Class I, Zone 1 Groups C & D (SM87PBL)	
CSA Explosion proof	Class 1, Div 1 & 2. Group D Ex d IICT5/T6 Gb	
CSA Intrinsically safe	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	0Ex ia IICT4 Ga. Russian Fire Approved	
INMETRO Ex d	Ex db IIC T5/T6 Gb	
CQST Exd	Exd IICT85°C/T100°C	_
CQST Exia	Exia IIC T4	_
Type Approvals	DNV (IEC 60945) (Stainless Steel SM87PB only)	_

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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		
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 As standard the LED is not provided with over current protection. The forward current (If) should be limited to 20mA		
Certified temp	Ex d* Ex ia* UL CSA Explosion proof - Class 1, Div 1 & 2. CSA - Ex d IIC CSA Intrinsically safe - Class 1, Div 1 & 2 *Note: includes ATEX JECE, TB CLI JNM		
	*Note: includes ATEX, IECEx, TR CU, INMETRO & CQST versions		
Weight	3.8 kg. steel (approx.) or 2.5 kg. alloy (approx)		

IP66 & IP67. SM87PB IP68 (35m for 40 hours)



Push button

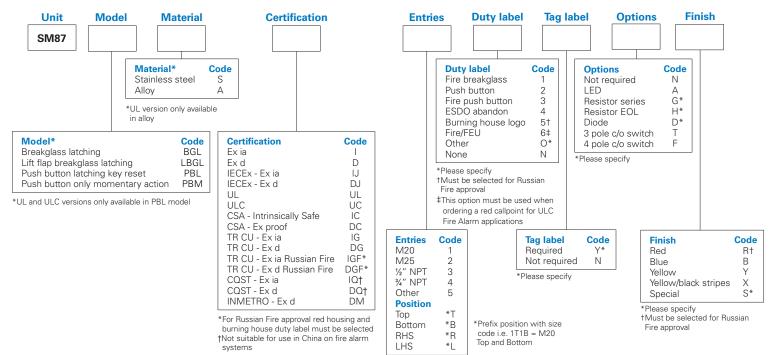


Both the Ex ia units and the Ex d units have the same external appearance. Also the internal components are identical throughout the range. Each unit can be wired for either NO, NC or CO contacts to customer specification

Ordering requirements

Ingress protection

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



08/19