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 (COST) 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
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.

### Certifications

<table>
<thead>
<tr>
<th>Certifications</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEX Ex de</td>
<td>EB</td>
</tr>
<tr>
<td>ATEX Ex ia</td>
<td>IB</td>
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<tr>
<td>IECEx Ex ia</td>
<td>IC</td>
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<tr>
<td>UL</td>
<td>UL</td>
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<td>CSA</td>
<td>UL</td>
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<tr>
<td>TR CU Ex ed</td>
<td>X</td>
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<td>CQT Ex de</td>
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<tr>
<td>Type Approvals</td>
<td>USA</td>
</tr>
<tr>
<td>SIL</td>
<td>SIL2</td>
</tr>
</tbody>
</table>

### Specifications

**Material**: Anti-static UV resistant glass reinforced polyester

**Finish**: Red painted finish as standard or to customer specification

**Weight**: 1.2 kg. (Varies with models and entries)

**Ingress protection**: IP66 & IP67

**Entries**: Up to 4 entries, M16 or M20 top and bottom (1½" NPT available on UL versions)

**Terminals**: 7 x 2.5mm² – standard

**Resistors**: Various configurations available on versions up to 24V and all ‘IS’ versions.

**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 (I_f) should be limited to 20mA

**Switch ratings (1 or 2 changeover switches fitted)**: d.c. 0-30V 5A (resistive or Inductive) 30-50V 1A (resistive or inductive) a.c. 0-254V 5A (resistive or Inductive)

**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.

### General arrangement drawing (all dimensions in mm)

[General arrangement drawing]

### PB standard wiring configuration

[TB4500956NA 06/17]

### Voltage Code

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</tr>
<tr>
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<td>C</td>
</tr>
<tr>
<td>Resistor EOL</td>
<td>D</td>
</tr>
<tr>
<td>Diode</td>
<td>E</td>
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<tr>
<td>Earth continuity</td>
<td>F</td>
</tr>
<tr>
<td>Turn and push</td>
<td>T</td>
</tr>
<tr>
<td>Self reset</td>
<td>M</td>
</tr>
<tr>
<td>Resetter series</td>
<td>S††</td>
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### Temperature

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<tr>
<th>Model</th>
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<th>PBUL</th>
<th>PBE</th>
<th>PBI</th>
<th>CSA</th>
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<tbody>
<tr>
<td></td>
<td>-40°C to +70°C</td>
<td>-40°C to +70°C</td>
<td>-40°C to +30°C</td>
<td>-40°C to +40°C</td>
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</table>

*Must be selected for Russian Fire approval

**Certification**:

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<td>EGF</td>
<td>Turn and push</td>
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<td>EQ*</td>
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<tr>
<td>IGT</td>
<td>EOL</td>
</tr>
<tr>
<td>EM</td>
<td>Finish</td>
</tr>
</tbody>
</table>

*Must be selected when selecting CSA certification

†Must be selected for Russian Fire approval

††Not suitable for use in China on fire alarm systems

**Certification Entry Code**

- ATEX/CENELEC: - EX de
- IECEx: - Ex ia
- UL: - Listed
- UL (Ordinary Locations): - LW
- TR CU: - Ex ia/ Ex Russian Fire
- COST: - Ex de
- INMETRO: - Ex de

**Code**

- A
- C
- D
- D*
- D**
- E
- E*
- F
- G
- H
- I
- K
- L
- M
- N
- P
- Q
- R
- S
- T
- U
- V
- W
- X
- Y
- Z

**Certification**

- ATEX/CENELEC: - EX de
- IECEx: - Ex ia
- UL: - Listed
- UL (Ordinary Locations): - LW
- TR CU: - Ex ia/ Ex Russian Fire
- COST: - Ex de
- INMETRO: - Ex de
- Uncertified: - WN

**Type Approvals**

- American Bureau of Shipping type approval (ABS) PBI only
- Ex ia IIC T4
- Ex ia IICT4
- Ex ia IIC T4 Ga

**Certified to**: IEC 60945, Russian Fire approved (must be red and have burning house duty label)

**Certified to**: IEC 61508. Cert no. 20151118-4786827 453

**Type Approvals**

- Ex ia IIC T4 Ga
- Ex ia IICT4
- Ex ia IIC T4 Ga

**Certified to**: EN60079-0, EN60079-11

**Certified to**: E186629

**Type Approvals**

- Ex ia IIC T4 Ga
- Ex ia IICT4
- Ex ia IIC T4 Ga

**Certified to**: IECEx BAS 12.0093X

**Certified to**: Baseefa 03ATEX0084X. ATEX Approved Ex II 1GD

**Certified to**: IECEx Ex ia

**Certified to**: ATEX/CENELEC - Ex ia

**Certified to**: Ex ia IIC T4 Ga, Ex ia IICT4 Ga

**Certification**

- Ex ia IIC T4 Ga, Ex ia IICT4 Ga
- Ex ia IIC T4 Ga, Ex ia IICT4 Ga
- Ex ia IIC T4 Ga, Ex ia IICT4 Ga

**Certified to**: IECEx BAS 12.0093X

**Certified to**: Baseefa 03ATEX0084X. ATEX Approved Ex II 1GD