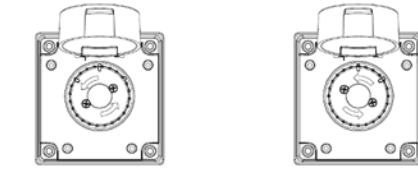
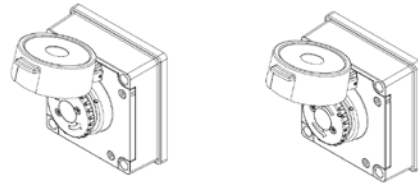
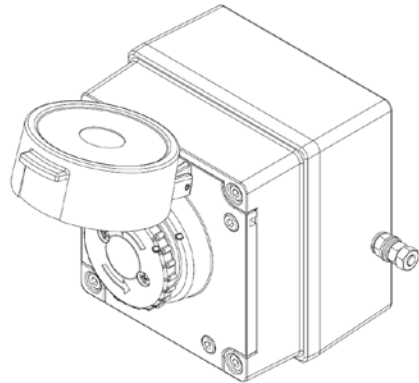


8) Testing unit operation

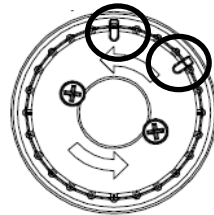
The push button unit can be tested without the need to replace any element.

To test, lift the cover lift flap to reveal the push button. The button should be pressed into the body to activate the unit and place it into the operated condition.



1. On operated unit
Twist push button
Anticlockwise 55°
to reset

2. Button should pop
up and twist back to
original position



Note: use alignment
marks circled to
indicate the push
button's status
/position.

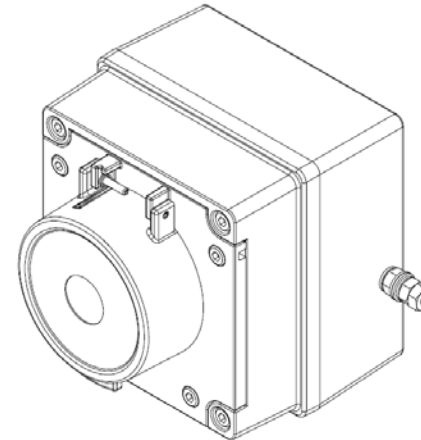
Unit currently shown
as 'standby
condition'

Resetting an operated unit is the same as resetting
a tested unit.

The call point switch will now change over its
contacts to operate the alarm.
Once testing is complete the unit needs to be reset
from the operated condition.

Rotate the push button anticlockwise by an angle
of 55°, see guide alignment marks on button and
cover, shown below (1). The push button should
pop back up to its original position.
Ensure that the push button has also twisted back
clockwise by 55° to its original position see guide
marks on button and cover, shown below (2).
The unit is now reset.

BExCP3B-PB
Manual Call Point – Push Button
With resistor Modules
For use in Flammable Gas and
Combustible Dust Atmospheres



1) Introduction

The BExCP3B-PB is a push button manual call
point which is certified to the European and
International Gas and Dust standards. The unit
meets the requirements of the ATEX directive
94/9/EC and IECEx scheme.

The call point can be used in hazardous areas
where potentially flammable gas and dust
atmospheres may be present.

The BExCP3B-PB has up to two monitoring
resistors. The units are Group II, EPL (equipment
protection level) Gb. The equipment is certified 'Ex
e d mb IIC T4 Gb' and as such may be used in
Zones 1 and 2 with flammable gases and vapours
with gas groups IIA, IIB & IIC and temperature
classes T1, T2, T3 and T4

These units are also Group III, EPL Db. The
equipment is certified 'Ex t IIIC T70C Db' and as
such may be used in Zones 21 and 22 for
combustible dusts groups IIIA, IIIB & IIIC.

2) Marking


All units have a rating label, which carries the
following important information:-


Unit Type No.:
BExCP3B-PB Manual Call Point

Input Voltages:
48VDC nominal 56VDC Max 0.75Amax
24VDC nominal 28VDC Max 1.0A Max
12VDC nominal 15VDC Max 1.0A Max
6VDC nominal 9VDC Max 1.0A Max

Code:
Ex e d mb IIC T4 Gb
Ex t IIIC T70°C Db
IP66
-40°C <= Ta <= +50°C

Certificate No.:
SIRA 09ATEX3286X
IECEx SIR 09.0121X

Epsilon x:  II 2GD

CE Marking
Notified body No.  0518

Year/Serial No. i.e. 09/1CP3BPB000001

**WARNING - DO NOT OPEN WHEN AN
EXPLOSIVE ATMOSPHERE MAY BE PRESENT**

3) Type Approval Standards

The beacon has an EC Type examination
certificate issued by SIRA and have been approved
to the following standards:-

IEC 60079-0:2007
EN 60079-1:2004 / IEC 60079-1:2003
EN 60079-7:2007 / IEC 60079-7:2006
IEC 60079-18:2009

EN 61241-1:2004 / IEC 61241-1:2004

The equipment is certified for use in ambient
temperatures in the range -40°C to +50C and shall
not be used outside this range.

4) Installation Requirements

Installation of this equipment shall only be carried
out by suitably trained personnel in accordance
with the applicable code of practice e.g. IEC

60079-14/EN 60079-14 and IEC 61241-14/EN 61241-14.

9) Repair of this equipment shall only be carried out by the manufacturer or in accordance with the applicable code of practice e.g. IEC 60079-19/EN 60079-19.

10) The certification of this equipment relies on the following materials used in its construction:

Enclosure: Aluminium Pressure Die Cast Body LM6

Through enclosure mechanism: Plastic Nylon Zytel Injection Moulded

Sealing of enclosure and mechanism: O-ring Acrylonitrile-Butadiene Rubber

Potting Compound of resistors where used: Epoxy Resin

If the equipment is likely to come into contact with aggressive substances, then it is the responsibility of the user to take suitable precautions that prevent it from being adversely affected, thus ensuring that the type of protection is not compromised.

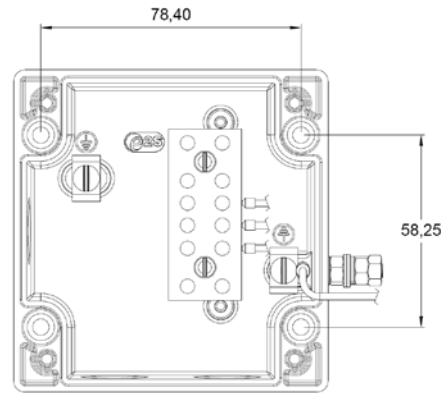
“Aggressive substances” - e.g. acidic liquids or gases that may attack metals, or solvents that may affect polymeric materials.

“Suitable precautions” - e.g. regular checks as part of routine inspections or establishing from the material’s data sheet that it is resistant to specific chemicals.

Refer to certificates SIRA 09ATEX3286X and IECEX SIR 09.0121X for special conditions of safe use.

5) Call Point Location and Mounting

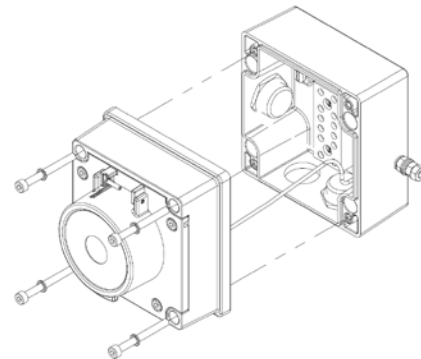
The location of the call point should enable ease of access for operation and testing. The unit should be mounted using the 4 off fixing holes which will accept up to M4 sized fixings.



View of base unit showing fixing centres.

To gain access to the mounting holes in the base the front cover must be removed.

This is achieved by removing the 4 off M4 cap head bolts holding on the cover.



Once the screws are removed the cover will hang down out of the way to gain access to the Ex e terminal block, the internal earth terminal and mounting hole recesses.

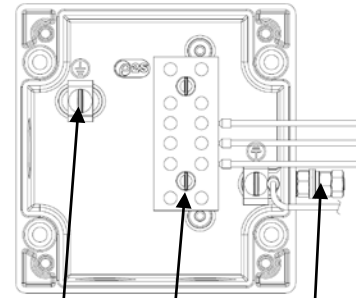
6) Earthing

The unit has both internal and external earth terminals.

It is recommended that a cable crimp lug is used on the earth wires.

The internal earth wire is placed under a earth clamp which will stop the cable twisting. This secured by an M4 screw and spring washer.

The external earth lug should be located between the two M5 washers provided and securely locked down with the M5 spring washer and two locknuts.



Internal Earth terminals

Ex e terminal block

External Earth Stud

7) Cable connections

There are 3 off cable entries for M20x1.5 Ex e approved cable glands or stopping plugs

The unit can be wired in a number of different ways depending on the resistor combination selected.

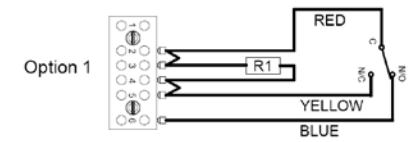
Option 1 – In line resistor R1

Option 2 – End of line resistor R2

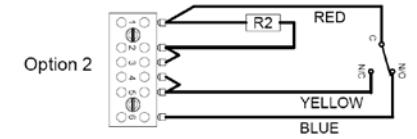
Option 3 – In line and end of line resistors R1 & R2

Note:- The maximum voltage stated must not be exceeded, as the internal resistor modules are rated as compliant with Ex mb according to the units voltage

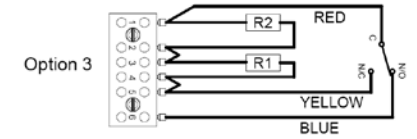
When wiring to Increased Safety terminal enclosures, you are only permitted to connect one wire into each way on the terminal block, unless a pair of wires are crimped into a suitable ferrule



Option 1

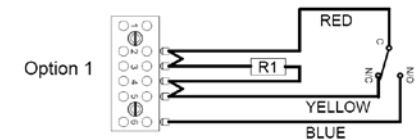


Option 2

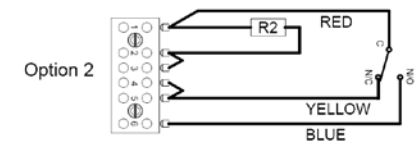


Option 3

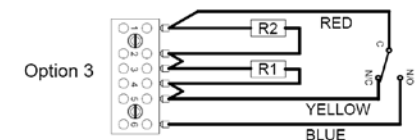
Unit in ‘Standby condition’ unoperated
Terminals (2,3) & (6) switch contacts closed
Terminals (2,3) & (4,5) switch contacts open



Option 1



Option 2



Option 3

Unit in ‘Operated condition’ (broken glass)
microswitch contacts changed over
Terminals (2,3) & (6) switch contacts open
Terminals (2,3) & (4,5) switch contacts closed