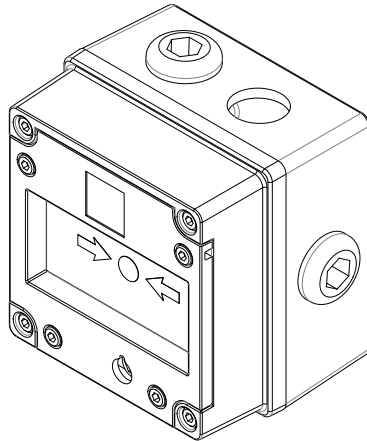




WP3-BG Weatherproof Break Glass Manual Call Point



1) Introduction

The WP3-BG is a break glass manual call point designed to withstand harsh environments. It has the following ratings:

CE Marking: 

UKCA Marking: 

IP Rating:
IP66/67

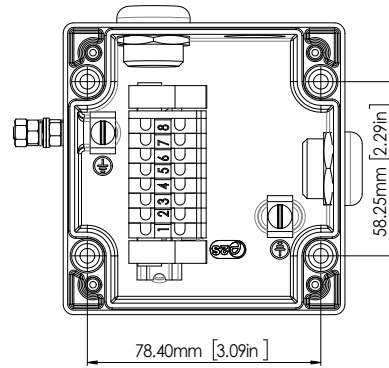
Ambient Temperature Range:
-40°C to +75°C

Input Voltage:
AC voltage 250V Max. Current 5.0A Max.
DC voltage 48V Max. Current 1.0A Max.
DC voltage 24V Max. Current 3.0A Max.

The enclosure is manufactured from Aluminium LM6 with an epoxy powder coat paint finish.

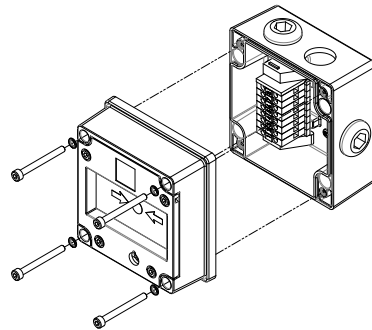
2) Call Point Location and Mounting

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.

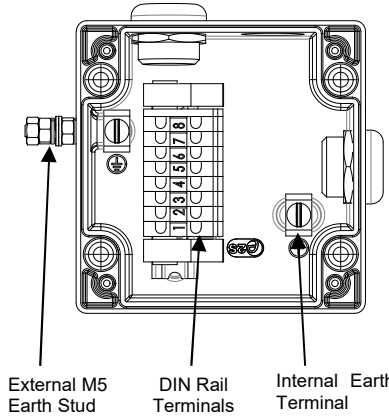


Once the screws are removed the cover will hang down out of the way to gain access to the terminals, the internal earth terminal and mounting hole recesses.

3) 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 is 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.



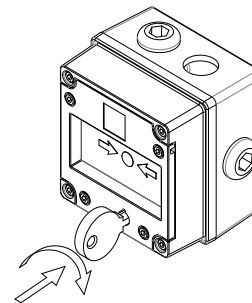
4) Cable connections

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

Wired connections are to be made to the terminals on the DIN Rail (0.5mm² - 4.0mm² wire size). See Section 8 for wiring schematics.

5) Testing unit operation

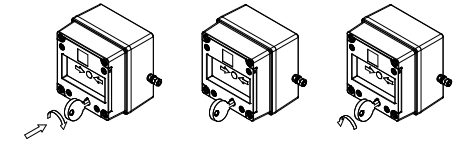
The break glass unit can be tested without the need to break/replace the frangible glass element. A test key is used to mechanically drop the glass down activating the switch.



The test key is inserted in the test cam and rotated clockwise by an angle of 60°. The glass element will visibly drop down in the viewable window.

The call point switch will now change over its contacts to operate the alarm.

Once testing is complete the unit needs to be reset, the test key is rotated back anticlockwise by an angle of 60° back to its original position. The glass element should now raise up so it is level again in the viewable window.

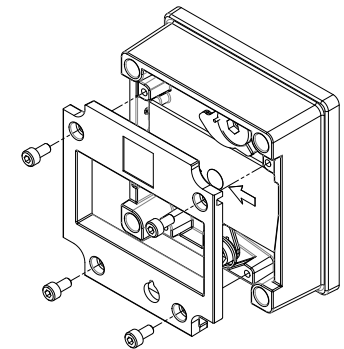


1. Insert test Key rotate clockwise 60°
2. Hold in position during test
3. Rotate back anticlockwise to reset

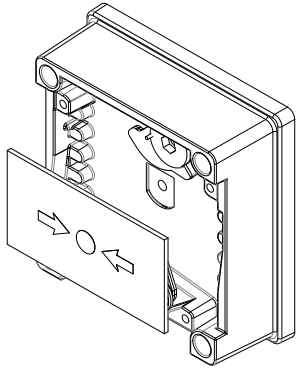
6) Replacement of glass element

If the break glass unit has been operated the broken glass element can be quickly replaced.

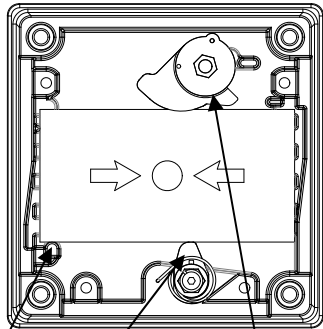
The break glass cover plate is removed by unscrewing the 4 off M4 cap head screws attaching it.



Once the cover is removed the broken glass will be free to be removed, clean out any other fragments of glass carefully.



To fit the new glass element rotate the top cam clockwise by an angle of 50° (use a 6mm Allen key) this will then allow the glass to fit back into the pocket it sits in, resting on the pivot point and test cam, release the top cam to rest on the top of the glass element.



Pivot point Test Cam Top Cam (rotate)

Replace the cover plate and tighten the 4 off M4 cap head screws.

Ensure the glass element is free to move under the cover plate. This can be done by running through the units test operation. See section 5 of this instruction manual.

7) End-of-Line and Series Devices

All models can be fitted with series resistors, end-of-line monitoring resistors, monitoring diodes, Zener diodes and also specific customer modules if supplied with direct current up to 50Vdc.

Part codes:

EOL (End of Line) device:

- Resistor – ExxxR
- Diode – ED1
- Zener – ExxxZ

Series (In line) device:

- Resistor – SxxxR
- Diode – SD1
- Zener – SxxxZ

The unit can be wired with a maximum of 2 module devices – see wiring schematic D232-06-001

When customer is fitting EOL or Series device ensure device leads are insulated or routed so as not to create an electrical short circuit.

The following table 1 shows limitations for all devices.

Type of component fitted	Suggested EOL/ Series Device Type Value
End-of-Line Resistor	330Ω Suggested Min.
End-of-Line Diode Type 1N5401	2W
Series Resistor	330Ω Suggested Min.
Series Zener Diode Type 1N5333B Suggested Sizes	3.3V
	4.7V
	5.1V
	5.6V
	6.2V
	6.8V
	10V
	12V

E2S PART NO. DESCRIPTION DATA REFERENCE

ISSUE	MOD No.	REASON - INITIAL - DATE
1		INTRODUCTION D.A.H - 07-02-2020

WP3-BG WP3-BG WEATHERPROOF BREAK GLASS MANUAL CALL POINT 2-41-010

WP3-BG[S] SWITCH TYPE: [S] - Single Microswitch FOR SPECIAL WIRING REQUESTS, SELECT WP3-BG[X] AND CONSULT E2S SALES

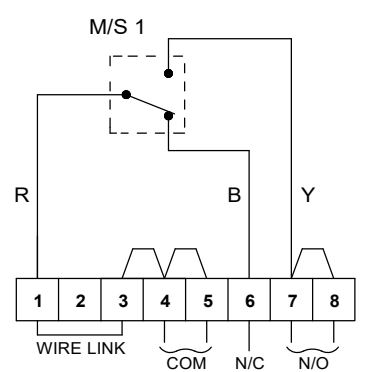
Standard Unit as supplied by E2S Without Series / EOL Devices

Standard Unit Showing positions of optional Series / EOL Devices

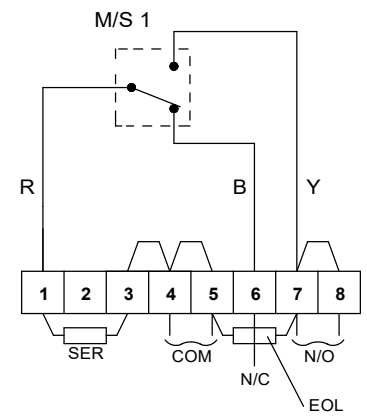
Standard Unit Showing alternative configuration of optional Series / EOL Devices

NOTE: Series / EOL devices can be fitted either by customer or pre-installed by E2S at point of order.

NOTE: Series / EOL devices can be fitted either by customer or pre-installed by E2S at point of order.

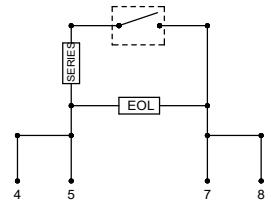


1A - Circuit shown in Unoperated condition (Glass Intact / Standby Condition)
Terminals (4,5) & (7,8) open
Terminals (4,5) & (6) closed

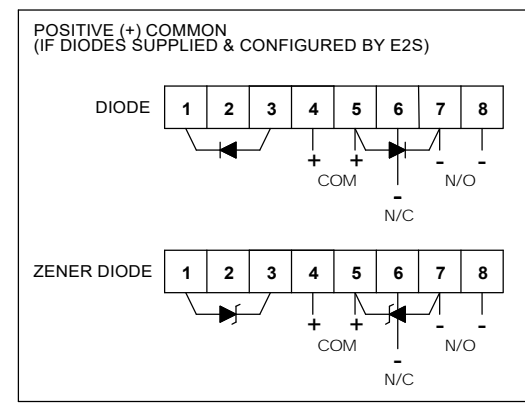


2A - Circuit shown in Unoperated condition (Glass Intact / Standby Condition)
Terminals (4,5) & (7,8) open
Terminals (4,5) & (6) closed

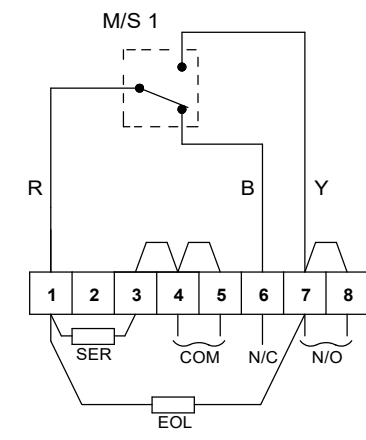
Wiring option shown with EOL & series devices acting in series



When fitting diodes or zener diodes, polarity across devices must be observed (Resistor polarity unimportant)

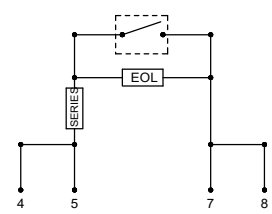


Key:
COM - Common
N/C - Normally Closed (Contacts closed in unoperated state)
N/O - Normally Open (Contacts open in unoperated state)

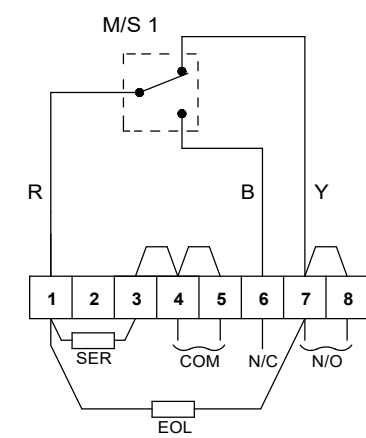
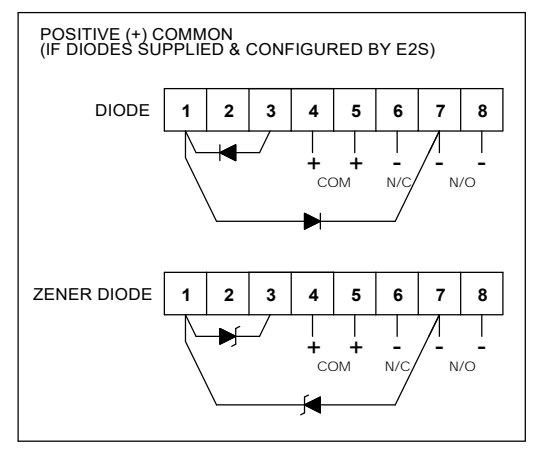


3A - Circuit shown in Unoperated condition (Glass Intact / Standby Condition)
Terminals (4,5) & (7,8) open
Terminals (4,5) & (6) closed

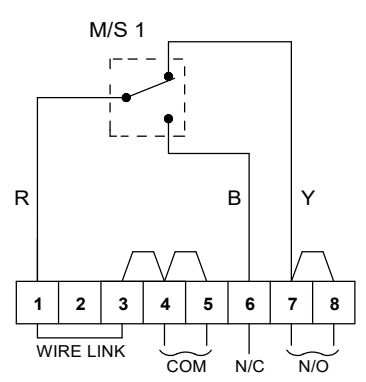
Wiring option shown with EOL & series devices acting in parallel



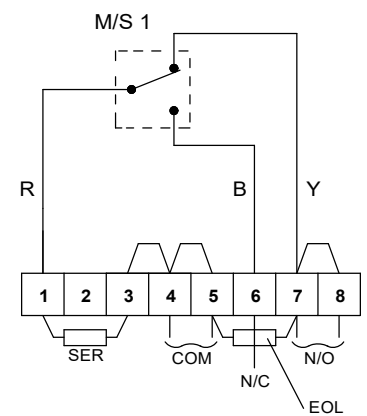
When fitting diodes or zener diodes, polarity across devices must be observed (Resistor polarity unimportant)



3B - Circuit shown in Operated condition (Glass Broken)
Terminals (4,5) & (7,8) closed
Terminals (4,5) & (6) open



1B - Circuit shown in Operated condition (Glass Broken)
Terminals (4,5) & (7,8) closed
Terminals (4,5) & (6) open



2B - Circuit shown in Operated condition (Glass Broken)
Terminals (4,5) & (7,8) closed
Terminals (4,5) & (6) open

DRAWING TO BS8888:2000
GEOMETRIC TOLERANCES TO ISO1101:1983
LINEAR DIMENSIONAL TOLS
ANGULAR DIMENSIONAL TOLS

STANDARDS
WP3 CALL POINTS

DRAWN	DATE	SURFACE FINISH	WEIGHT (Kg)
D.HOWGILL	07-02-20		
CHECKED	DATE	MATERIAL	
R.N.POTTS	07-02-20		
APPROVED	DATE	ALTERNATIVE MATERIAL	
R.N.POTTS	07-02-20		

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ALL DIMENSIONS IN MM
IF IN DOUBT, ASK - DO NOT SCALE

A3

TITLE **WP3-BG WEATHERPROOF BREAK GLASS MANUAL CALL POINT WIRING SCHEMATIC**

SCALE NTS SHEET 1 OF 1 DRAWING NUMBER **D232-06-001**

©

EU & UKCA Declaration of Conformity



Manufacturer: European Safety Systems Ltd.
Impress House, Mansell Road, Acton
London, W3 7QH
United Kingdom

Authorised Representative: E2S Warnsignaltechnik UG
Charlottenstrasse 45-51
72764 Reutlingen
Germany

Equipment Type: WP3-BG,
WP6-PB,
WP7-PB, WP7-PT, WP7-PM

Directive 2014/30/EU: Electromagnetic Compatibility Directive (EMC)

Standards applied: EN 61000-6-1:2007
EN 61000-6-2:2005
EN 61000-6-3:2007 / A1:2011 / AC: 2012
EN 61000-6-4:2007 / A1:2011

Directive 2006/95/EC (until 19th April 2016) / Directive 2014/35/EU (from 20th April 2016): Low Voltage Directive (LVD)

Standards applied: EN 60947-1:2007+A2:2014

Directive 2011/65/EU: Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The product and all the components contained within it are in accordance with the restriction of the use of hazardous substances in electrical and electronic equipment, including amendment by Directive 2015/863/EU.

Regulation (EC) 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The product and all the components contained within it are free from substances of very high concern.

Other Standards and Regulations

EN 60529:1992+A2:2013 - Degrees of protection provided by enclosures (IP code) – enclosure rated IP66

On behalf of European Safety Systems Ltd., I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives, regulations and standards.

This Declaration is issued under the sole responsibility of the manufacturer.

A handwritten signature in black ink, appearing to read 'Martin Streetz'.

Martin Streetz
Quality Assurance Manager

Document No.: DC-081_Issue_C
Date and Place of Issue: London, 23/11/2022