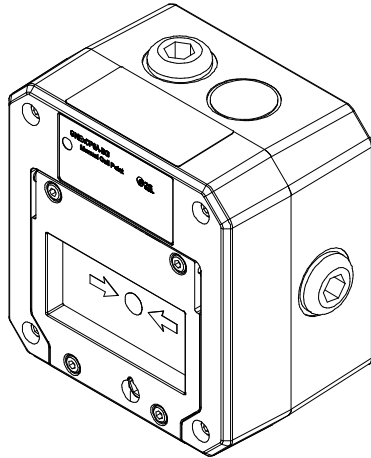




### WP6-BG Weatherproof Break Glass Manual Call Point



#### 1) Introduction

The WP6-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

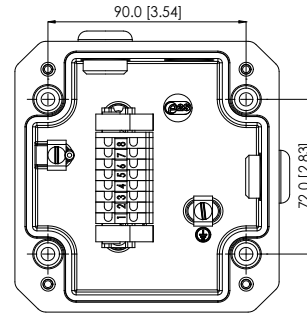
Ambient Temperature Range:  
-40°C to +75°C

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 made from Red GRP (Glass reinforced Polyester). If alternative colours are ordered, these will be painted with an epoxy powder coat.

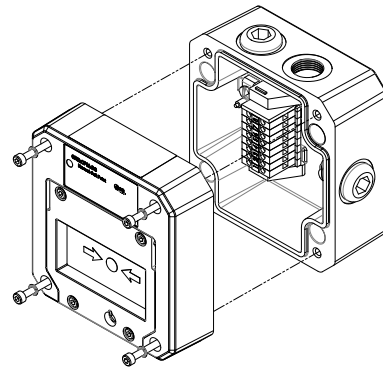
#### 2) Call Point Location and Mounting

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 in mm [in]

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.



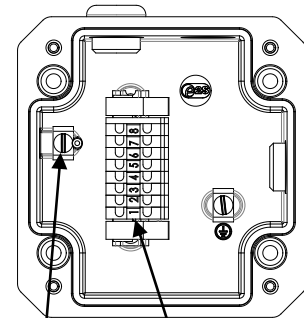
Once the screws are removed the cover will hang down out of the way to gain access to the Ex e terminal block, the internal earth terminal and mounting hole recesses.

#### 3) Earthing

The unit has an internal earth terminal.

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.



Internal Earth terminal

DIN Rail terminals

#### 4) Cable connections

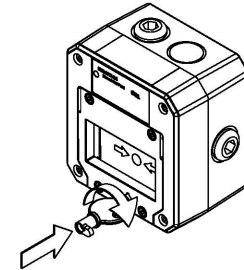
There are 3 off cable entries for M20x1.5 cable glands or stopping plugs with a minimum ingress protection of IP66.

The unit can be wired in a number of different ways depending whether normally open or normally closed contacts are required.

Wire sizes allowable are 0.5mm<sup>2</sup> to 4.0mm<sup>2</sup>

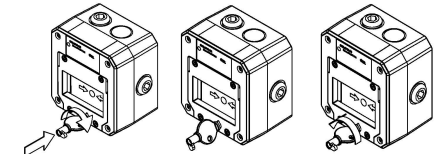
#### 5) Testing unit operation

The break glass unit can be tested without the need to break/replace the frangible glass element. A test key (7mm Allen 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°

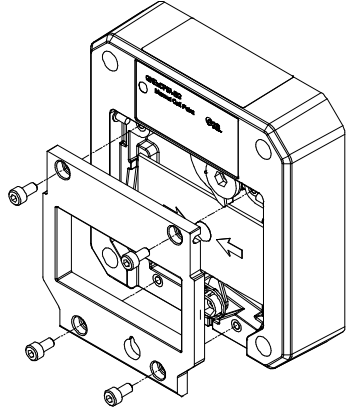
2. Hold in position during test

3. Rotate back anticlockwise to reset

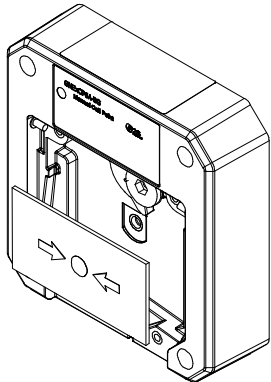
### 6) Replacement of glass element

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

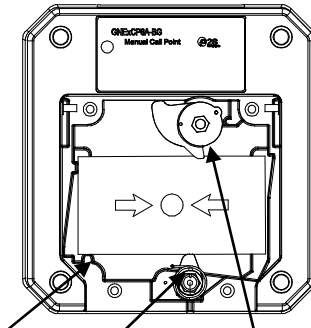
The break glass cover plate is removed by unscrewing the 4 off M4 cap head screws attaching it.



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
- LED

The unit can be wired with a maximum of 4 module devices – see wiring schematic D233-06-001

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

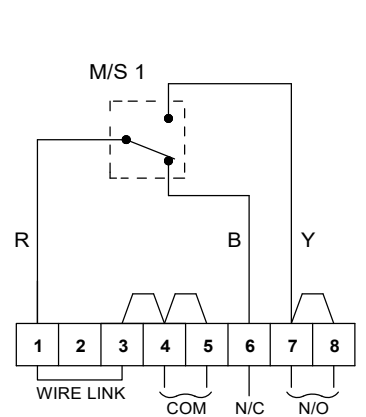
The following table 1 shows limitations for all devices.

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

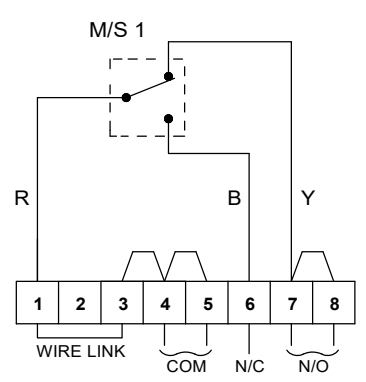
E2S PART NO.	DESCRIPTION	DATA REFERENCE	ISSUE	MOD No.	REASON - INITIAL - DATE
WP6-BG	WP6-BG WEATHERPROOF BREAK GLASS MANUAL CALL POINT	2-41-020	1		INTRODUCTION D.A.H - 07-02-2020

WP6-BG[S] SWITCH TYPE: [S] - Single Microswitch

**Standard Unit as supplied by E2S Without Series / EOL Devices**



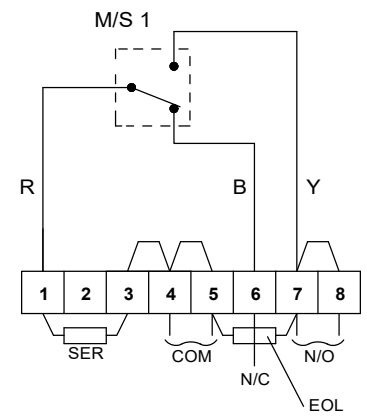
**1A - Circuit shown in Unoperated condition (Glass Intact / Standby Condition)**  
 Terminals (4,5) & (7,8) open  
 Terminals (4,5) & (6) closed



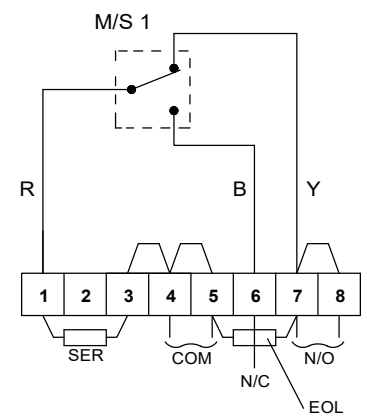
**1B - Circuit shown in Operated condition (Glass Broken / Button pushed in)**  
 Terminals (4,5) & (7,8) closed  
 Terminals (4,5) & (6) open

**Standard Unit Showing positions of optional Series / EOL Devices**

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

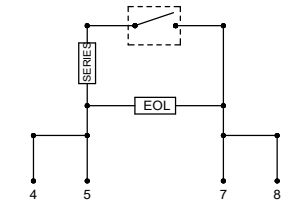


**2A - Circuit shown in Unoperated condition (Glass Intact / Standby Condition)**  
 Terminals (4,5) & (7,8) open  
 Terminals (4,5) & (6) closed

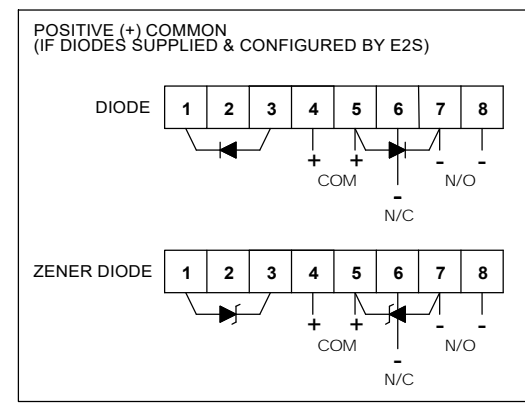


**2B - Circuit shown in Operated condition (Glass Broken / Button pushed in)**  
 Terminals (4,5) & (7,8) closed  
 Terminals (4,5) & (6) open

Wiring option shown with EOL & series devices acting in series



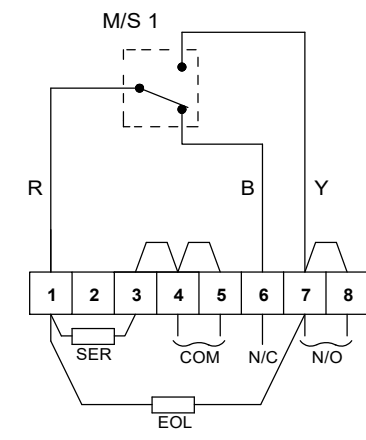
When fitting diodes or zener diodes, polarity across devices must be observed (Resistor polarity unimportant)



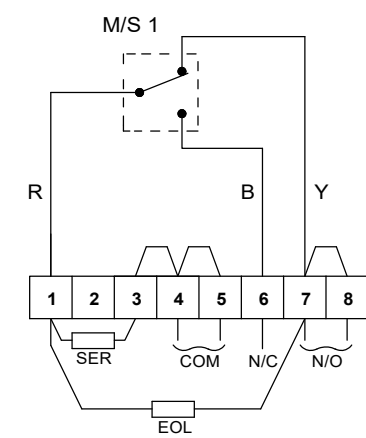
**Key:**  
 COM - Common  
 N/C - Normally Closed (Contacts closed in unoperated state)  
 N/O - Normally Open (Contacts open in unoperated state)

**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.

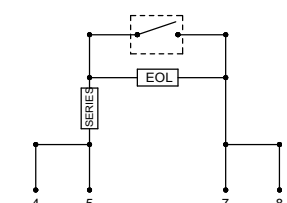


**3A - Circuit shown in Unoperated condition (Glass Intact / Standby Condition)**  
 Terminals (4,5) & (7,8) open  
 Terminals (4,5) & (6) closed

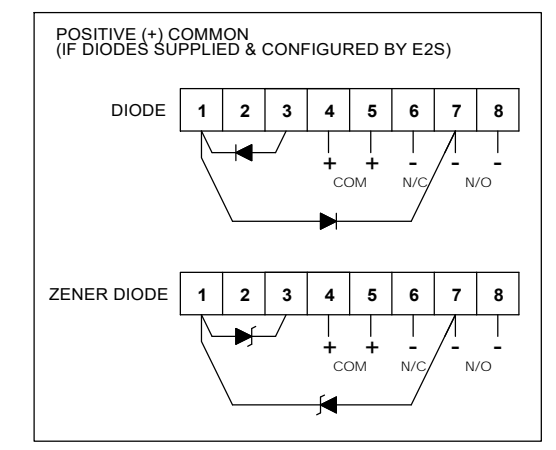


**3B - Circuit shown in Operated condition (Glass Broken / Button pushed in)**  
 Terminals (4,5) & (7,8) closed  
 Terminals (4,5) & (6) open

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)

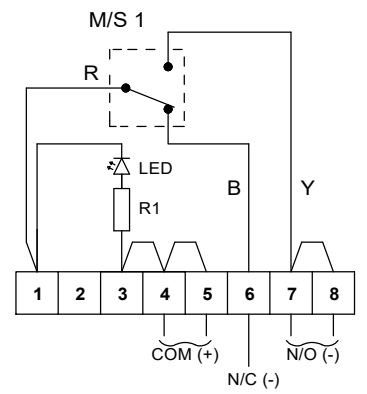


DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN <b>D.HOWGILL</b>	DATE <b>07-02-20</b>	SURFACE FINISH	WEIGHT (Kg)	THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY SYSTEMS LTD. NEITHER THE WHOLE OR ANY EXTRACT MAY BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT.  EUROPEAN SAFETY SYSTEMS LTD. AS PER LATEST DATE OF ISSUE SHOWN ABOVE	 warning signals EUROPEAN SAFETY SYSTEMS LTD IMPRESS HOUSE MANSELL ROAD ACTON LONDON W3 7QH WWW.E2S.COM	ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE	 <b>A3</b>
	CHECKED <b>R.N.POTTS</b>	DATE <b>07-02-20</b>	MATERIAL	TITLE <b>WP6-BG WEATHERPROOF BREAK GLASS MANUAL CALL POINT WIRING SCHEMATIC</b>				
	APPROVED <b>R.N.POTTS</b>	DATE <b>07-02-20</b>	ALTERNATIVE MATERIAL				SCALE <b>NTS</b>	SHEET <b>1 OF 3</b>

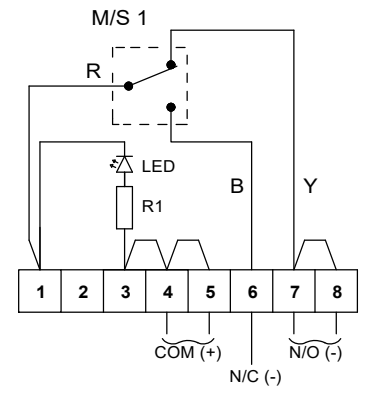
8	9	10
ISSUE	MOD No.	REASON - INITIAL - DATE
1		INTRODUCTION D.A.H - 07-02-2020

WP6-BG[S].....[L] SWITCH TYPE: [S] - Single Microswitch LED OPTION: [L] - LED Included

**Standard L.E.D Unit as supplied by E2S  
Without series / EOL Devices**



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

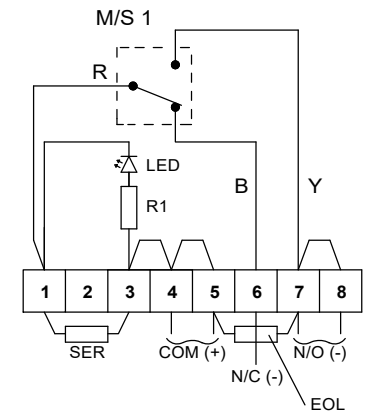


**4B - Circuit shown in Operated condition  
(Glass Broken / Button pushed in)**  
Terminals (4,5) & (7,8) closed  
Terminals (4,5) & (6) open

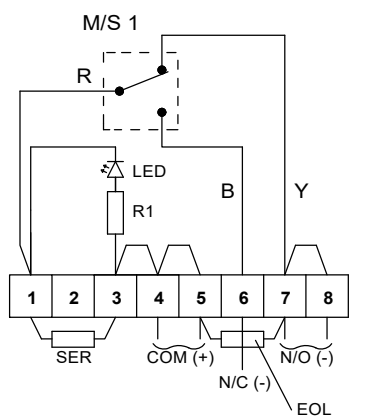
Note: LED is configured by E2S and the polarity must be observed. Use positive (+) common when wiring into the call point

**Standard L.E.D Unit  
Showing optional series / EOL devices**

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

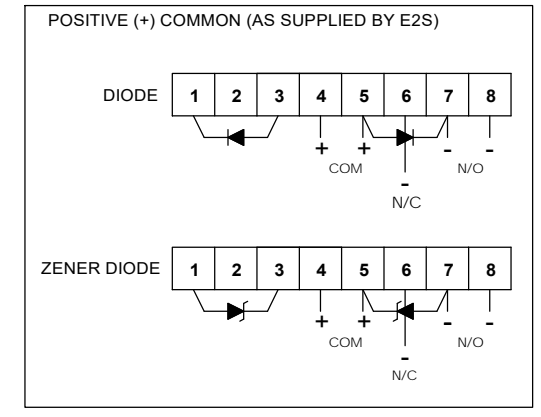


**5A - Circuit shown in Unoperated condition  
(Glass Intact / Standby Condition)**  
Terminals (4,5) & (7,8) open  
Terminals (4,5) & (6) closed



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

When fitting diodes or zener diodes, polarity across devices must be observed



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

STANDARDS  
**WP6 CALL POINTS**

DRAWN	DATE
D.HOWGILL	07-02-20
CHECKED	DATE
R.N.POTTS	07-02-20
APPROVED	DATE
R.N.POTTS	07-02-20

SURFACE FINISH	WEIGHT (Kg)
MATERIAL	
ALTERNATIVE MATERIAL	

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**e2S**  
warning signals

EUROPEAN SAFETY SYSTEMS LTD  
IMPRESS HOUSE  
MANSELL ROAD  
ACTON  
LONDON W3 7QH  
WWW.E2S.COM

ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE			<b>A3</b>
TITLE <b>WP6-BG WEATHERPROOF BREAK GLASS MANUAL CALL POINT WIRING SCHEMATIC</b>			
SCALE NTS	SHEET 2 OF 3	DRAWING NUMBER <b>D233-06-001</b>	

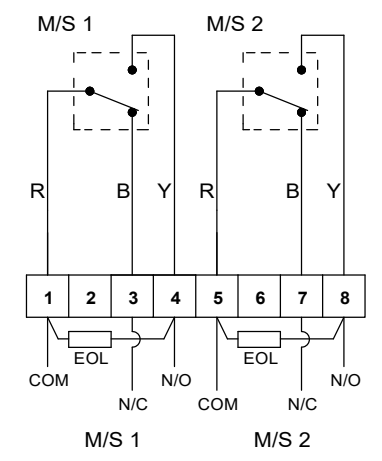
8	9	10
ISSUE	MOD No.	REASON - INITIAL - DATE
1		INTRODUCTION D.A.H - 07-02-2020

WP6-BG[D] SWITCH TYPE: [D] - Dual Microswitch

WP6-BG[X] SWITCH TYPE: [X] - Special Order

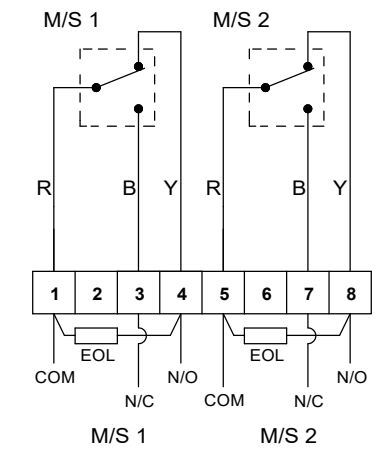
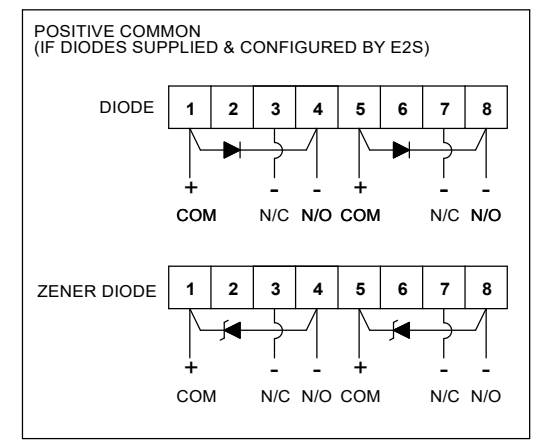
**Standard Dual Switch Unit**  
Showing optional EOL devices

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



**6A - Circuit shown in Unoperated condition**  
(Glass Intact / Standby Condition)  
M/S1: Terminals 1 & 4 open. MS/2: Terminals 5 & 8 open.  
M/S1: Terminals 1 & 3 closed. M/S2: Terminals 5 & 7 closed.

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



**6B - Circuit shown in Operated condition**  
(Glass Broken / Button pushed in)  
M/S1: Terminals 1 & 4 closed. MS/2: Terminals 5 & 8 closed.  
M/S1: Terminals 1 & 3 open. M/S2: Terminals 5 & 7 open.

**Special Wiring Unit**  
Single or Dual Switch with wiring to customer request

Other wiring configurations are available pre-configured (e.g. Dual switch configured with series and EOL devices)

Contact E2S Sales for special wiring requests

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

STANDARDS  
**WP6 CALL POINTS**

DRAWN	DATE
D.HOWGILL	07-02-20
CHECKED	DATE
R.N.POTTS	07-02-20
APPROVED	DATE
R.N.POTTS	07-02-20

SURFACE FINISH	WEIGHT (Kg)
MATERIAL	
ALTERNATIVE MATERIAL	

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ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE			<b>A3</b>
TITLE <b>WP6-BG WEATHERPROOF BREAK GLASS MANUAL CALL POINT WIRING SCHEMATIC</b>			
SCALE NTS	SHEET 3 OF 3	DRAWING NUMBER <b>D233-06-001</b>	

# 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

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#### 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