

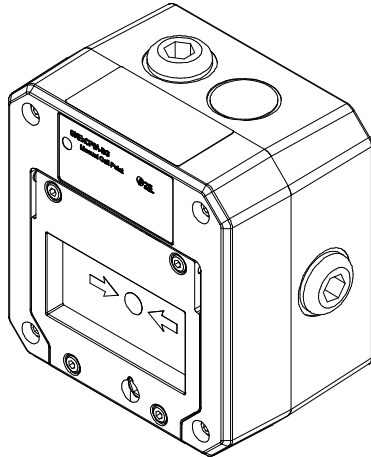
# INSTRUCTION MANUAL

## GNExCP6B-BG, GNExCP6D-BG & GNExCP6E-BG Break Glass Manual Call Point

### For use in Flammable Gas and Dust Atmospheres

#### GNExCP6B-BG, GNExCP6D-BG & GNExCP6E-BG Manual Call Point – Break Glass With Resistor Modules

For use in Flammable Gas and Combustible Dust Atmospheres.



#### 1) Introduction

The GNExCP6B-BG / GNExCP6D-BG / GNExCP6E-BG is a break glass manual call point which is certified to the European and International Gas and Dust standards. The unit meets the requirements of the ATEX directive 2014/34/EU, IECEx and UKEX schemes.

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

All units have up to two of the following series and/or EOL devices:

- Monitoring resistors per module: -
    - GNExCP6B-BG - 2.0W Max
    - GNExCP6D-BG - 1.0W Max
    - GNExCP6E-BG - 1.75W Max
  - Monitoring diode
  - Monitoring Zener diode
- GNExCP6B-BG units may also incorporate an LED indicator in addition to the two series and/or EOL devices allowed.

The units are Group II, EPL (equipment protection level) Gb. The equipment is certified 'Ex db eb 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 tb IIC T80°C Db' (GNExCP6B-BG), 'Ex tb IIC T80°C Db' (GNExCP6D-BG), 'Ex tb IIC T75°C Db' (GNExCP6E-BG) and as such may be used in Zones 21 and 22 for combustible dusts groups IIIA, IIIB & IIIC.

#### 2) Ratings & Markings

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

Unit Type No.:  
 GNExCP6B-BG Manual Call Point  
 GNExCP6D-BG Manual Call Point  
 GNExCP6E-BG Manual Call Point

Input Voltages:  
 48VDC nominal 56VDC Max 0.75A Max  
 24VDC nominal 28VDC Max 5.0A Max Resistive Load; 3.0A Max Inductive Load  
 12VDC nominal 15VDC Max 5.0A Max  
 6VDC nominal 9VDC Max 5.0A Max


Code:  
 GNExCP6B-BG  
 Ex db eb mb IIC T4 Gb  
 Ex tb IIC T80°C Db  
 IP66  
 -40°C ≤ Ta ≤ +50°C

GNExCP6D-BG	GNExCP6E-BG
Ex db eb mb IIC T4 Gb	Ex db eb mb IIC T4 Gb
Ex tb IIC T80°C Db	Ex tb IIC T75°C Db
IP66	IP66
-40°C ≤ Ta ≤ +70°C	-40°C ≤ Ta ≤ +65°C

Certificate No.:  
 SIRA 09ATEX3286X  
 IECEx SIR 09.0121X  
 CSAE 21UKEX3556X

Epsilon x:  II 2GD

CE Marking  
 Notified Body No.  2813

UKCA Marking  
 Notified Body No.  0518

Year/Serial No. i.e. 20/1CP6BBG000001  
 Or 20/1CP6DBG000001  
 Or 20/1CP6EBG000001

WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT, ELECTROSTATIC HAZARD – CLEAN ONLY WITH A DAMP CLOTH

#### 3) Type Approval Standards

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

EN60079-0:2018 / IEC60079-0:2017  
 EN60079-1:2014 / IEC60079-1:2014  
 EN60079-7:2015 / IEC60079-7:2017  
 EN60079-18:2015 / IEC60079-18:2014  
 EN60079-31:2014 / IEC60079-31:2013

The equipment is certified for use in ambient temperatures in the range  
 GNExCP6B-BG -40°C to +50°C  
 GNExCP6D-BG -40°C to +70°C  
 GNExCP6E-BG -40°C to +65°C

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

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.

Refer to certificates SIRA 09ATEX3286X, IECEx SIR 09.0121X and CSAE 21UKEX3556X for special conditions of safe use.

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

Enclosure: GRP - Glass Reinforced Polyester  
 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.

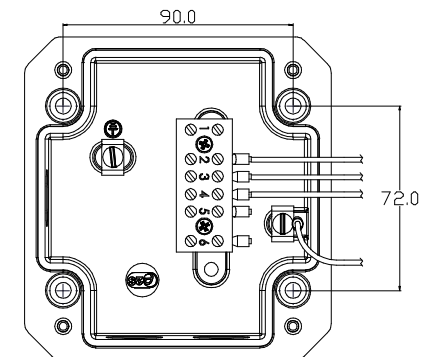
"Aggressive substances" - e.g. acidic liquids, gases or solvents that may affect polymeric materials.

"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.

Under extreme conditions the unit may generate an ignition-capable level of electrostatic charges. The unit must not be installed in a location where it may be subjected to external conditions (such as high-pressure steam) which may cause a build-up of electrostatic charges on non-conducting surfaces. Cleaning of the unit must only be carried out with a damp cloth.

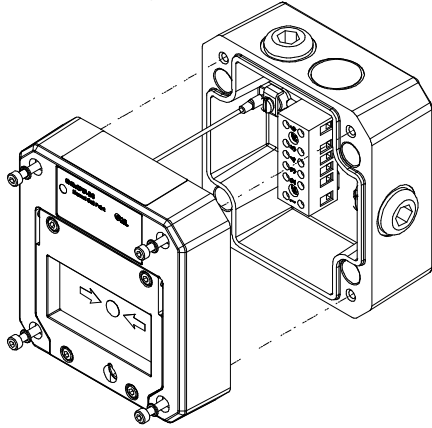
#### 5) Call Point Location and Mounting

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 M5 sized fixings.



View of base unit showing fixing centres (in mm).

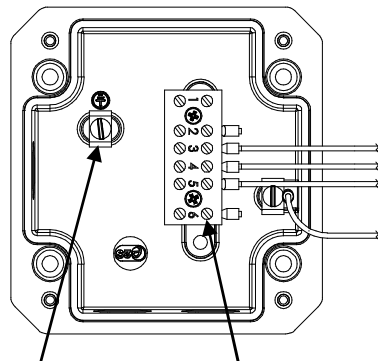
To gain access to the mounting holes in the base the front cover must be removed. This is achieved by removing the 4 off M4 cap head bolts holding on the cover.



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 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 an earth clamp which will stop the cable twisting. This is secured by an M4 screw and spring washer.



Internal Earth Ex e Terminal Block

Note: Depending on options chosen an 8-Way DIN Rail or 6-Way terminal block may be selected.

#### 7) Cable connections

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

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

EOL (End of line) device;  
resistor – ExxxR / diode – ED1 / zener – ExxxZ  
Series (In line) device;  
resistor – SxxxR / diode – SD1 / zener – SxxxZ / LED  
Microswitch 1 = M/S 1  
Microswitch 2 = M/S 2

The unit can be wired with a maximum of 2 module devices – refer to wiring schematic D154-06-051

Voltage option	Max Voltage	Min resistor value allowable in module Type B unit (2.0W)	Min resistor value allowable in module Type D unit (1.0W)	Min resistor value allowable in module Type E unit (1.75W)
6 V dc	9 V dc	47 ohms	91 ohms	51 ohms
12V dc	15 V dc	120 ohms	240 ohms	150 ohms
24V dc	28 V dc	470 ohms	820 ohms	510 ohms
48V dc	56 V dc	1K8 ohms	3K3 ohms	2K0 ohms

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. For the six-way terminal block wire sizes allowable are 0.5mm<sup>2</sup> to 4.0mm<sup>2</sup>. For the 8-way DIN rail wire sizes allowable are 0.5mm<sup>2</sup> to 2.5mm<sup>2</sup>.

Leads connected to the terminals shall be insulated for the appropriate voltage and this insulation shall extend to within 1mm of the metal of the terminal throat. They shall only be installed and wired with cable in an ambient temperature of -10°C to +80°C

All terminal screws, used or unused, shall be tightened down to between 0.5 Nm and 0.7 Nm

#### 7.1) Fitted LED, Diode or Zener Diode

If a diode module is pre-fitted as either an EOL or series device, the following current limitation applies:

Unit Voltage	Max. Current
48V DC	0.75A
6, 12 & 24V DC	2.0A

If a Zener diode module is pre-fitted as either EOL or Series device, the following current limitation applies:

Zener Voltage	Max. Input Voltage	Max. Current
3.3V	56V DC	230mA
4.7V		162mA
5.1V		149mA
5.6V		136mA
6.2V		122mA
6.8V		112mA
10V		76mA
12V		63mA

If an LED indicator is pre-fitted (optional on GNExCP6B Units only), the LED is protected by the LED current-limiting resistor. See value of this resistor in table below. This only applies to units with LED option code 'L'.

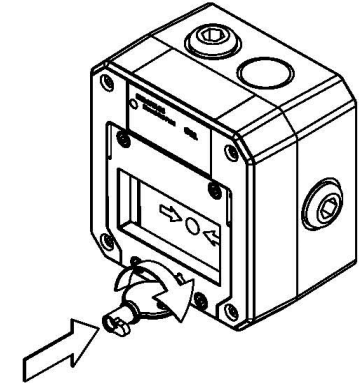
GNExCP6B-BGXXXXXXXL-XX-ExxxR-SxxxR

LED Resistor	Max. Input Voltage
3K3 (3300Ω)	56V DC
1K5 (1500Ω)	28V DC

In any scenario, the lowest value of maximum current should be used. For example, if the unit has both a diode and a Zener diode, the Zener diode would determine the maximum input current of the unit, since its max. current is lowest.

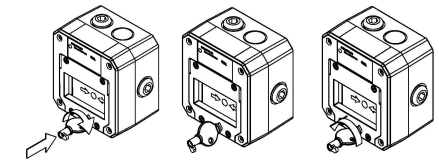
#### 8) Testing unit operation

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.

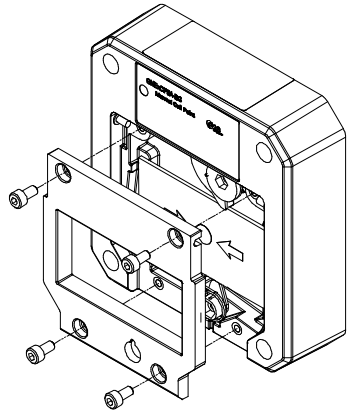


1. Insert test Key rotate clockwise 60°
2. Hold in position during test
3. Rotate back anticlockwise to reset

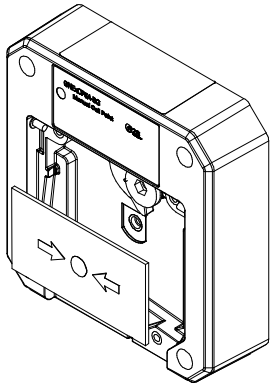
### 9) Replacement of glass element

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

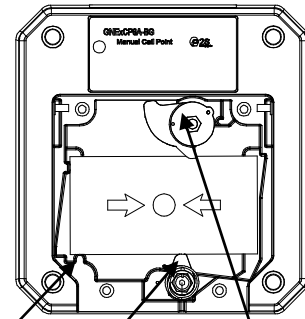
The break glass cover plate is removed by unscrewing the 4 off M4 cap head screws attaching it.



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 8 of this instruction manual.

### 10) SIL 2 Reliability Data

Reliability and Functional safety IEC/EN61508 which has been assessed and is considered suitable for use in low demand safety function:

- Random Hardware Failures and Systematic Failures (route 2H)
- As an unvoted item (i.e. hardware fault tolerance of 0) at SIL 2

The product was assessed against failure modes:

- Failure to close a contact when the call point is struck with specified force
- Failure to open a contact when the call point is struck with specified force
- Spurious output despite no input

Integrity in respect of failure to close	SIL 2
Total Failure rate	0.133 pmh
"hazardous" failure rate (revealed)	0 pmh
"hazardous" failure rate (unrevealed)	0.1 pmh
"safe" failure rate (revealed)	0.033 pmh
"safe" failure rate (unrevealed)	0
Diagnostic Coverage	99%
System type	A
Hardware Fault Tolerance	0
Safe Failure Fraction	>99%
PFD (hazardous failure)	$1.25 \times 10^{-3}$
Proof Test Interval	Up to 1 year

# SINGLE MICROSWITCH | DEVICES

# SHEET 1

PRODUCTS:  
 GNExCP6B/C/D/E - BG  
 GNExCP6B/C/D/E - PB  
 GNExCP6B/C/D/E - PT

Diagram	Sheet
Dual Switch Wiring Configurations	2,4,5,6
LED Indicator Wiring Configurations	3,4,6
Parallel Dual Switch Wiring Configurations	5, 6

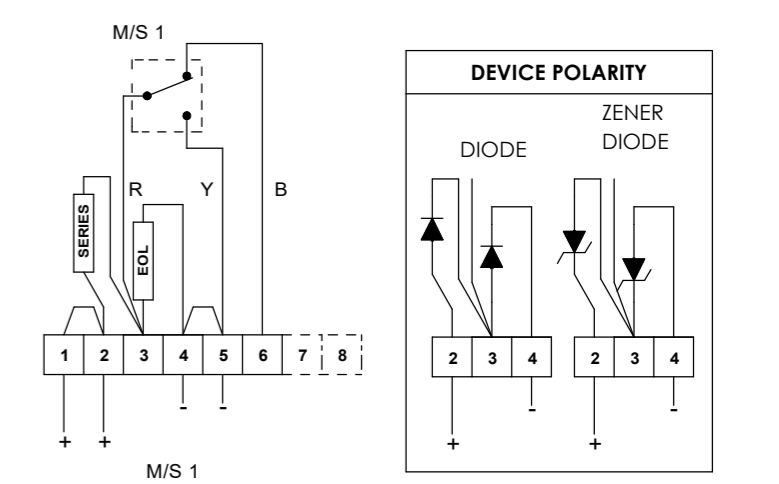
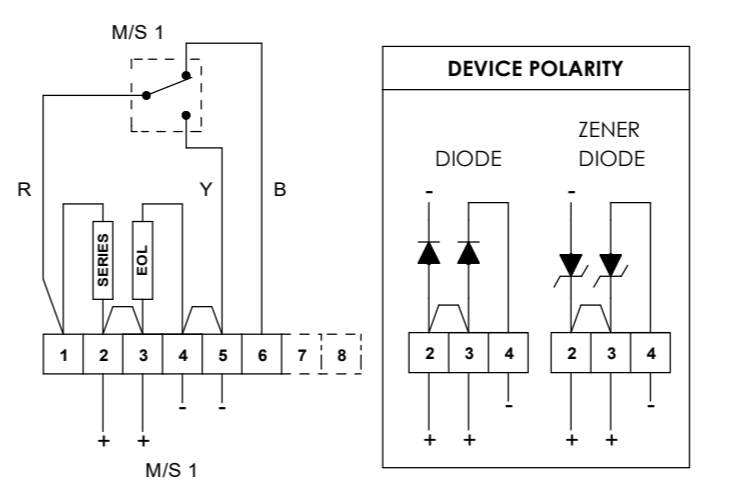
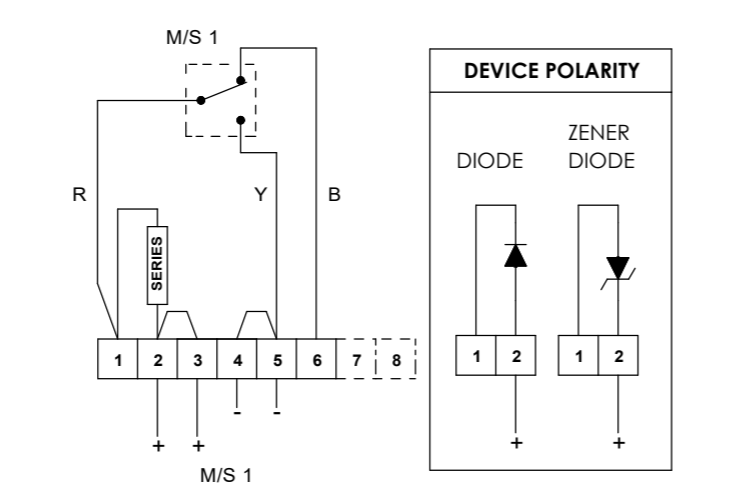
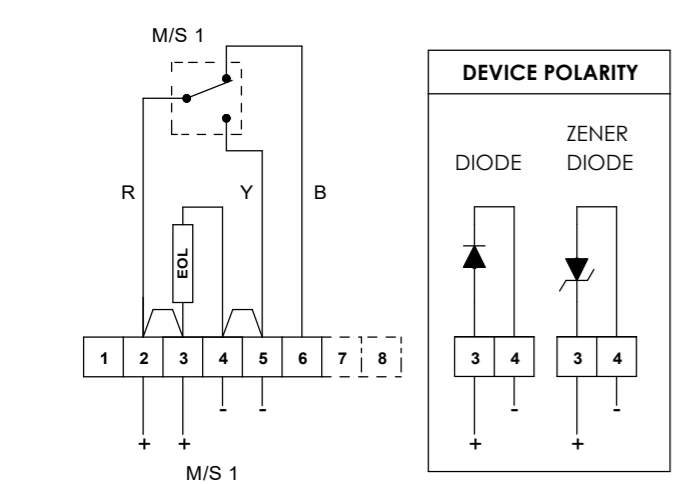
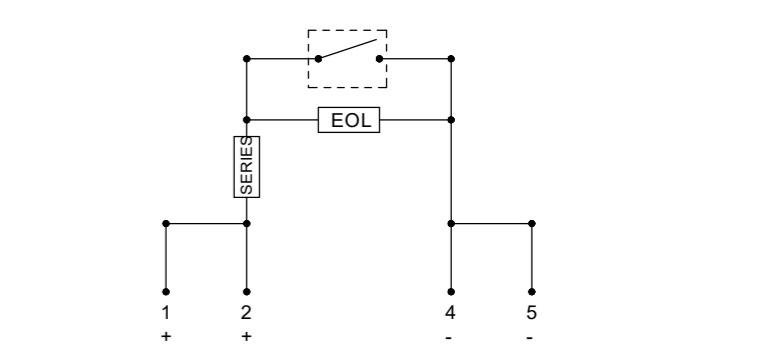
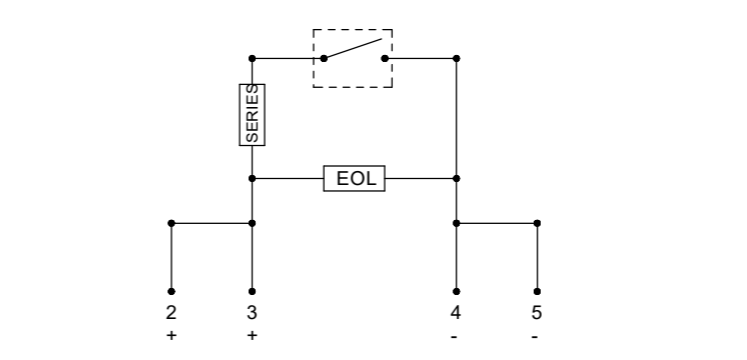
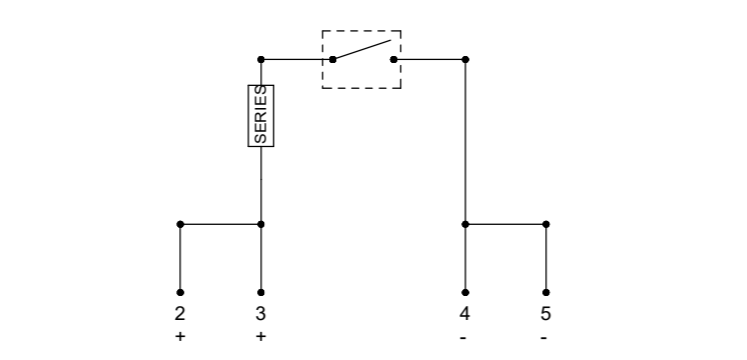
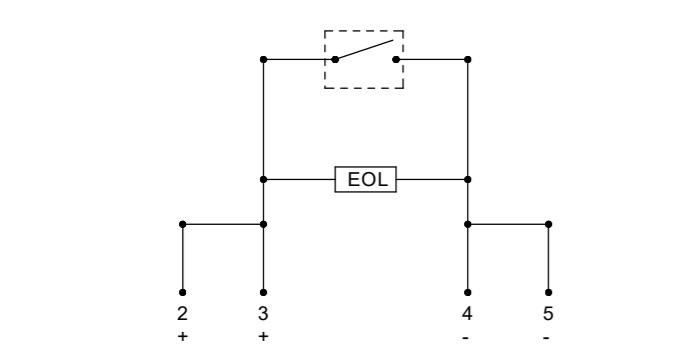
GNEXCP6B-BG[s][t][l][e][m][d][v][o][x][u][v][e][s] Series  
 Switch Type [s] Product Version [v] Product Option [o] LED Indicator [u]  
 Terminals [t] EOL Module [e] Module [s]

Module Device Codes		
	EOL	Series
Resistor	ExxxR	SxxxR
Diode	ED1	SD1
Zener Diode	ExxxZ	SxxxZ
LED	N/A	L or C

ISSUE	MOD No.	REASON - INITIAL - DATE
2	ACN0077	TYPE E ADDED. DUAL VERSION SCHEMATICS UPDATED. SHEET 3 ADDED FOR LED DIAGRAMS. D.A.H - 28-08-2020
3		DEVICE POLARITY ADDED. CONFIG 8 AND 12 ADDED (LED ONLY) CODING UPDATE FOR CONFIG 3 AND 4 D.A.H - 21-02-2022
4		CONFIG 13 REMOVED, CONFIGS RE-NUMBERED 1 TO 24 D.A.H - 17-11-2022

SINGLE SWITCH WITH EOL DEVICE	CONFIG. 1	SINGLE SWITCH WITH SERIES DEVICE	CONFIG. 2	SINGLE SWITCH WITH EOL & SERIES DEVICE	CONFIG. 3	SINGLE SWITCH WITH EOL & SERIES DEVICE	CONFIG. 4
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SWITCH TYPE [s] PRODUCT OPTION [o] EOL MODULE [e]	[S] [1] [Exxxx]	Single Standard EOL Device	SWITCH TYPE [s] PRODUCT OPTION [o] SERIES MODULE [s]	[S] [1] [Sxxxx]	Single Standard Series Device	SWITCH TYPE [s] PRODUCT OPTION [o] MODULES [e][s]	[S] [1] [Exxxx][Sxxxx]	Single Standard EOL + Series	SWITCH TYPE [s] PRODUCT OPTION [o] MODULE [e][s]	[S] [W] [Exxxx][Sxxxx]	Single Alternative Wiring EOL + Series
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**Circuit shown in Unoperated condition**

**Unoperated condition  
(Glass Intact / Standby Condition)**  
 Terminals +(2,3) & -(4,5) open  
 Terminals +(2,3) & (6) closed

**Operated condition  
(Glass Broken / Button pushed in)**  
 Terminals +(2,3) & -(4,5) closed  
 Terminals +(2,3) & (6) open

**Circuit shown in Unoperated condition**

**Unoperated condition  
(Glass Intact / Standby Condition)**  
 Terminals +(2,3) & -(4,5) open  
 Terminals +(2,3) & (6) closed

**Operated condition  
(Glass Broken / Button pushed in)**  
 Terminals +(2,3) & -(4,5) closed  
 Terminals +(2,3) & (6) open

**Circuit shown in Unoperated condition**

**Unoperated condition  
(Glass Intact / Standby Condition)**  
 Terminals +(2,3) & -(4,5) open  
 Terminals +(2,3) & (6) closed

**Operated condition  
(Glass Broken / Button pushed in)**  
 Terminals +(2,3) & -(4,5) closed  
 Terminals +(2,3) & (6) open

**Circuit shown in Unoperated condition**

**Unoperated condition  
(Glass Intact / Standby Condition)**  
 Terminals +(1,2) & -(4,5) M/S 1 open  
 Terminals +(1,2) & (6) M/S 1 closed

**Operated condition  
(Glass Broken / Button pushed in)**  
 Terminals +(1,2) & -(4,5) M/S 1 closed  
 Terminals +(1,2) & (6) M/S 1 open

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

STANDARDS  
 GNExCP6B/C/D/E 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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EUROPEAN SAFETY SYSTEMS LTD.  
 AS PER LATEST DATE OF ISSUE SHOWN ABOVE

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		
TITLE		<b>GNExCP6B/C/D/E-BG/PB/PT MANUAL CALL POINT WIRING SCHEMATIC</b>
SCALE	SHEET	DRAWING NUMBER
NTS	1 OF 6	<b>D154-06-051</b>

# DUAL MICROSWITCH | DEVICES

# SHEET 2

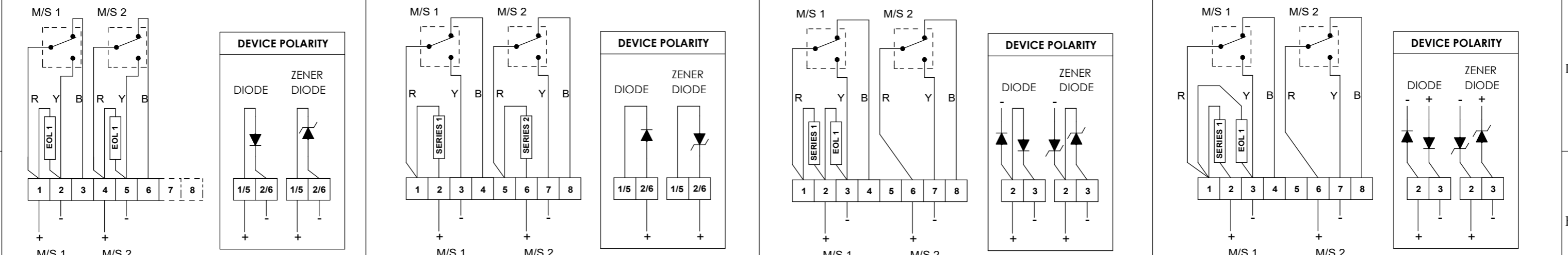
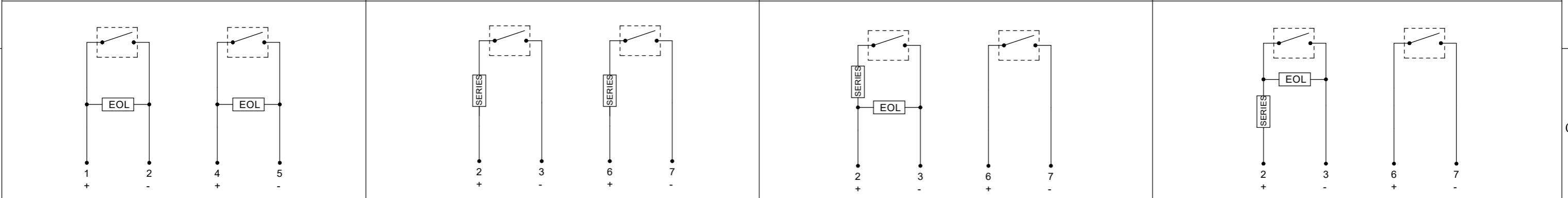
Notes:  
1. Other configurations of dual switch units are possible. Contact E2S sales to discuss options.

GNEXCP6B-BG[s][t][l][e][m][d][v][o][x][u][v][e][s] Series  
 Switch Type [s] Terminals [t] Product Version [v] Product Option [o] LED Indicator [u] Module [s] EOL Module [e]

Module Device Codes		
	EOL	Series
Resistor	ExxxR	SxxxR
Diode	ED1	SD1
Zener Diode	ExxxZ	SxxxZ
LED	N/A	L or C

ISSUE	MOD No.	REASON - INITIAL - DATE
2	ACN0077	SEE SHEET 1 D.A.H - 28-08-2020
3		SEE SHEET 1 D.A.H - 06-07-2021
4		SEE SHEET 1 D.A.H - 17-11-2022

DUAL SWITCH WITH EOL DEVICE	CONFIG. 5	DUAL SWITCH WITH SERIES DEVICES	CONFIG. 6	DUAL SWITCH WITH EOL & SERIES DEVICE	CONFIG. 7	DUAL SWITCH WITH EOL & SERIES DEVICE	CONFIG. 8
SWITCH TYPE [s] [D] PRODUCT OPTION [o] [1] EOL MODULE [e] [Exxxx]	Dual Standard EOL Device	SWITCH TYPE [s] [D] TERMINALS [t] [D] PRODUCT OPTION [o] [1] SERIES MODULE [s] [Sxxxx]	Dual DIN Rail Only Standard Series Device	SWITCH TYPE [s] [D] TERMINALS [t] [D] PRODUCT OPTION [o] [1] MODULES [e][s] [Exxxx][Sxxxx]	Dual DIN Rail Only Standard EOL + Series	SWITCH TYPE [s] [D] TERMINALS [t] [D] PRODUCT OPTION [o] [W] MODULES [e][s] [Exxxx][Sxxxx]	Dual DIN Rail Only Alternative Wiring EOL + Series



**Circuit shown in Unoperated condition**

**Unoperated condition (Glass Intact / Standby Condition)**  
 Terminals + (1) & -(2) M/S 1 and +(4) & -(5) M/S 2 open  
 Terminals +(1) & (3) M/S 1 and +(4) & (6) M/S 2 closed

**Operated condition (Glass Broken / Button pushed in)**  
 Terminals +(1) & -(2) M/S 1 open and +(4) & -(5) M/S 2 closed  
 Terminals +(1) & (3) M/S 1 and +(4) & (6) M/S 2 open

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 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>GNExCP6B/C/D/E-BG/PB/PT MANUAL CALL POINT WIRING SCHEMATIC</b>						
	STANDARDS <b>GNExCP6B/C/D/E CALL POINTS</b>	APPROVED <b>R.N.POTTS</b>	DATE <b>07-02-20</b>	ALTERNATIVE MATERIAL			SCALE <b>NTS</b>	SHEET <b>2 OF 6</b>	DRAWING NUMBER <b>D154-06-051</b>	

# SINGLE MICROSWITCH | LED | DEVICES

# SHEET 3

Notes:  
 1. LED available only on GNExCP6B and GNExCP6C Units  
 2. GNExCP6C Units have the option to remove the LED current-limiting resistor RL1 using LED option 'C'. In all other cases, RL1 is included.

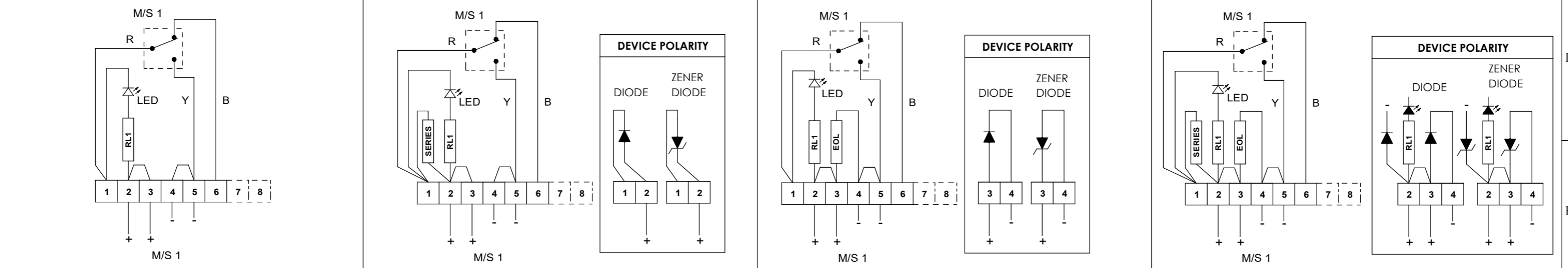
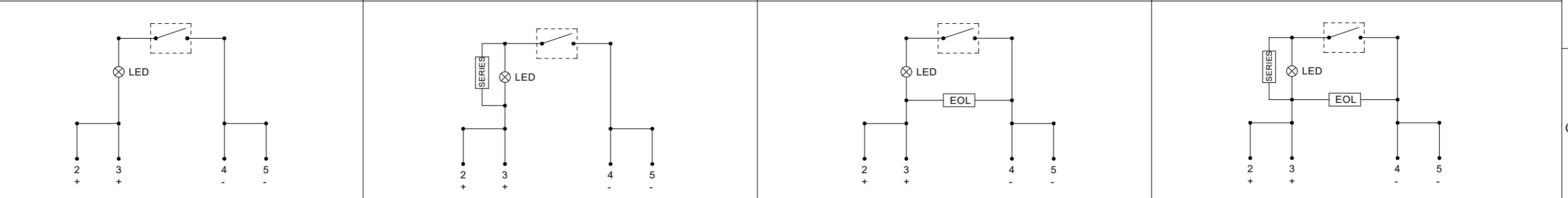
GNExCP6B-BG[s][t][l][e][m][d][v][o][x][u]-[v][e][s] Series  
 Switch Type [s] Terminals [t] Product Version [v] Product Option [o] LED Indicator [u] EOL Module [e]

Module Device Codes		
	EOL	Series
Resistor	ExxxR	SxxxR
Diode	ED1	SD1
Zener Diode	ExxxZ	SxxxZ
LED	N/A	L or C

ISSUE	MOD No.	REASON - INITIAL - DATE
2	ACN0077	SEE SHEET 1 D.A.H - 28-08-2020
3		SEE SHEET 1 D.A.H - 06-07-2021
4		SEE SHEET 1 D.A.H - 17-11-2022

<b>SINGLE SWITCH WITH LED ONLY</b>	<b>CONFIG. 9</b>	<b>SINGLE SWITCH WITH LED &amp; SERIES DEVICE</b>	<b>CONFIG. 10</b>	<b>SINGLE SWITCH WITH LED &amp; EOL DEVICE</b>	<b>CONFIG. 11</b>	<b>SINGLE SWITCH WITH LED, EOL &amp; SERIES DEVICE</b>	<b>CONFIG. 12</b>
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SWITCH TYPE [s] [S] PRODUCT OPTION [o] [1] LED INDICATOR [u] [L]	Single Standard LED	SWITCH TYPE [s] [S] PRODUCT OPTION [o] [1] LED INDICATOR [u] [L] SERIES MODULE [s] [Sxxxx]	Single Standard LED Series Device	SWITCH TYPE [s] [S] PRODUCT OPTION [o] [1] LED INDICATOR [u] [L] EOL MODULE [e] [Exxxx]	Single Standard LED EOL Device	SWITCH TYPE [s] [S] PRODUCT OPTION [o] [1] LED INDICATOR [u] [L] MODULES [e][s] [Exxxx][Sxxxx]	Single Standard LED EOL + Series Device
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<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b>                  Terminals +(2,3) &amp; -(4,5) open                  Terminals +(2,3) &amp; (6) closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b>                  Terminals +(2,3) &amp; -(4,5) closed                  Terminals +(2,3) &amp; (6) open</p>	<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b>                  Terminals +(2,3) &amp; -(4,5) open                  Terminals +(2,3) &amp; (6) closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b>                  Terminals +(2,3) &amp; -(4,5) closed                  Terminals +(2,3) &amp; (6) open</p>	<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b>                  Terminals +(2,3) &amp; -(4,5) open                  Terminals +(2,3) &amp; (6) closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b>                  Terminals +(2,3) &amp; -(4,5) closed                  Terminals +(2,3) &amp; (6) open</p>	<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b>                  Terminals +(2,3) &amp; -(4,5) open                  Terminals +(2,3) &amp; (6) closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b>                  Terminals +(2,3) &amp; -(4,5) closed                  Terminals +(2,3) &amp; (6) open</p>
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DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN <b>D.HOWGILL</b> DATE 07-02-20	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 A3
STANDARDS GNExCP6B/C/D/E CALL POINTS	CHECKED <b>R.N.POTTS</b> DATE 07-02-20	MATERIAL	ALTERNATIVE MATERIAL	TITLE <b>GNExCP6B/C/D/E-BG/PB/PT MANUAL CALL POINT WIRING SCHEMATIC</b>		
	APPROVED <b>R.N.POTTS</b> DATE 07-02-20			SCALE NTS	SHEET 3 OF 6	DRAWING NUMBER <b>D154-06-051</b>

# DUAL MICROSWITCH | LED | DEVICES

# SHEET 4

Notes:  
 1. LED available only on GNExCP6B and GNExCP6C Units  
 2. GNExCP6C Units have the option to remove the LED current-limiting resistor RL1 using LED option 'C'. In all other cases, RL1 is included.

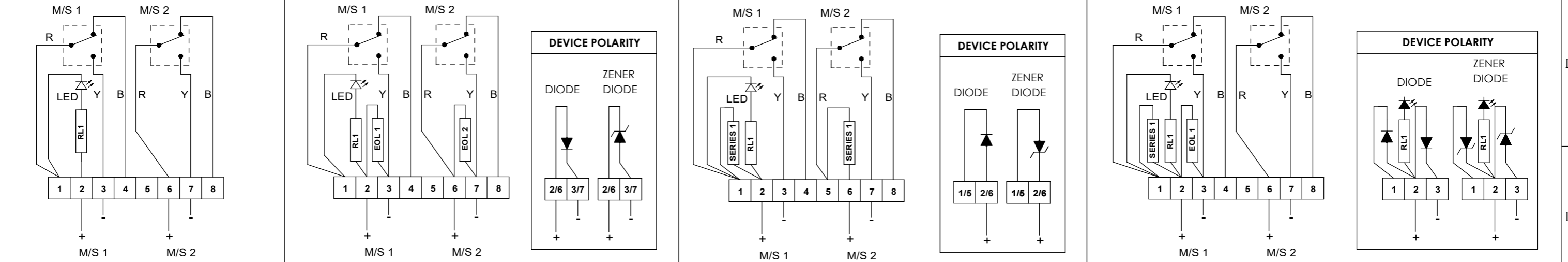
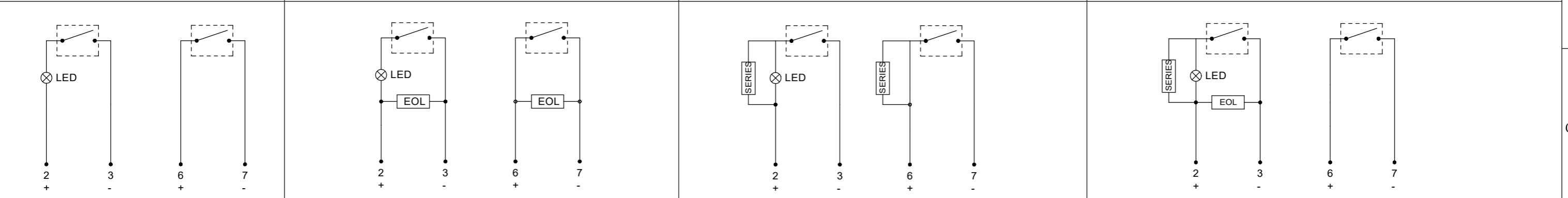
GNExCP6B-BG[s][t][l][e][m][d][v][o][x][u][v][e][s] Series  
 Switch Type [s] Terminals [t] Product Version [v] Product Option [o] EOL Module [e] LED Indicator [u]

Module Device Codes		
	EOL	Series
Resistor	ExxxR	SxxxR
Diode	ED1	SD1
Zener Diode	ExxxZ	SxxxZ
LED	N/A	L or C

ISSUE	MOD No.	REASON - INITIAL - DATE
2	ACN0077	SEE SHEET 1 D.A.H - 28-08-2020
3		SEE SHEET 1 D.A.H - 06-07-2021
4		SEE SHEET 1 D.A.H - 17-11-2022

DUAL SWITCH WITH LED	CONFIG. 13	DUAL SWITCH WITH LED & EOL DEVICE	CONFIG. 14	DUAL SWITCH WITH LED & SERIES DEVICE	CONFIG. 15	DUAL SWITCH WITH LED, EOL & SERIES DEVICE	CONFIG. 16
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SWITCH TYPE [s]	[D] Dual	SWITCH TYPE [s]	[D] Dual	SWITCH TYPE [s]	[D] Dual	SWITCH TYPE [s]	[D] Dual
TERMINALS [t]	[D] DIN Rail Only	TERMINALS [t]	[D] DIN Rail Only	TERMINALS [t]	[D] DIN Rail Only	TERMINALS [t]	[D] DIN Rail Only
PRODUCT OPTION [o]	[1] Standard	PRODUCT OPTION [o]	[1] Standard	PRODUCT OPTION [o]	[1] Standard	PRODUCT OPTION [o]	[1] Standard
LED INDICATOR [u]	[L] LED	LED INDICATOR [u]	[L] LED	LED INDICATOR [u]	[L] LED	LED INDICATOR [u]	[L] LED
		EOL MODULE [e]	[ExxxR] EOL Device	SERIES MODULE [s]	[Sxxxx] Series Device	MODULES [e][s]	[Exxx][Sxxxx] EOL + Series



**Circuit shown in Unoperated condition**

**Unoperated condition (Glass Intact / Standby Condition)**  
 Terminals +(2) & -(3) M/S 1 and +(6) & -(7) M/S 2 open  
 Terminals +(2) & (4) M/S 1 and +(6) & (8) M/S 2 closed

**Operated condition (Glass Broken / Button pushed in)**  
 Terminals +(2) & -(3) M/S 1 and +(6) & -(7) M/S 2 closed  
 Terminals +(2) & (4) M/S 1 and +(6) & (8) M/S 2 open

DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN	DATE	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 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	DATE							MATERIAL	TITLE <b>GNExCP6B/C/D/E-BG/PB/PT MANUAL CALL POINT WIRING SCHEMATIC</b>
	APPROVED	DATE								

# DUAL MICROSWITCHES IN PARALLEL

# SHEET 5

Notes:  
1. Other configurations of dual switch units are possible. Contact E2S sales to discuss options.

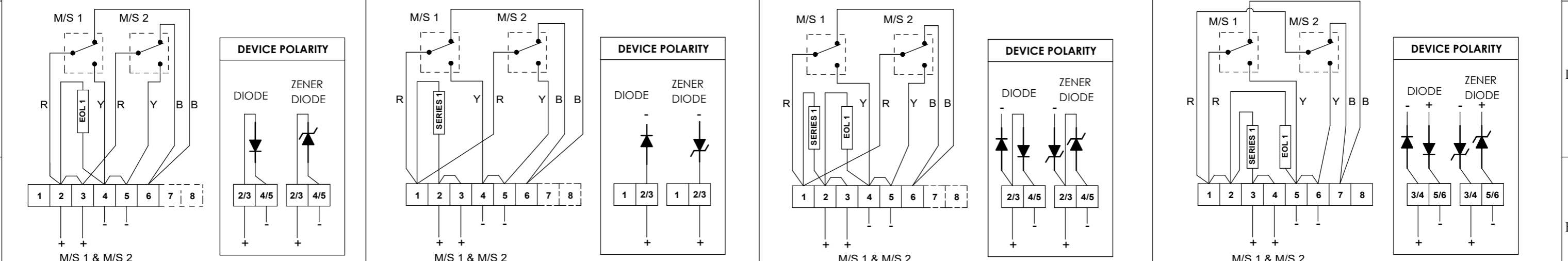
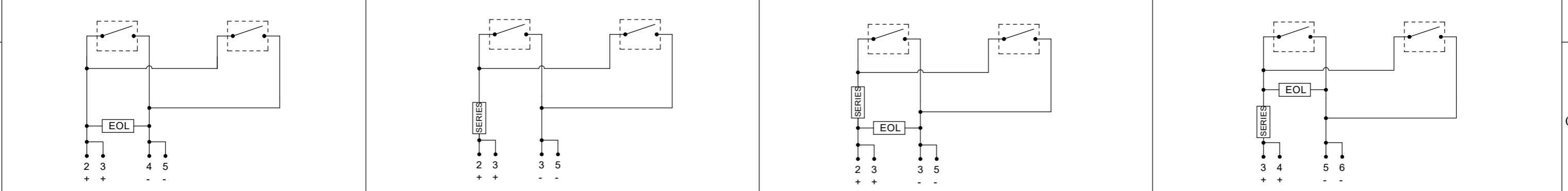
GNEXCP6B-BG[s][t][l][e][m][d][v][o][x][u][v][e][s] Series  
 Switch Type [s] Terminals [t] Product Version [v] Product Option [o] LED Indicator [u] Module [s] EOL Module [e]

Module Device Codes		
	EOL	Series
Resistor	ExxxR	SxxxR
Diode	ED1	SD1
Zener Diode	ExxxZ	SxxxZ
LED	N/A	L or C

ISSUE	MOD No.	REASON - INITIAL - DATE
2	ACN0077	SEE SHEET 1 D.A.H - 28-08-2020
3		SEE SHEET 1 D.A.H - 06-07-2021
4		SEE SHEET 1 D.A.H - 17-11-2022

DUAL SWITCH WITH EOL DEVICE	CONFIG. 17	DUAL SWITCH WITH SERIES DEVICES	CONFIG. 18	DUAL SWITCH WITH EOL & SERIES DEVICE	CONFIG. 19	DUAL SWITCH WITH EOL & SERIES DEVICE	CONFIG. 20
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SWITCH TYPE [s] PRODUCT OPTION [o] EOL MODULE [e]	[D] [P] [Exxxx]	Dual Parallel Wiring EOL Device	SWITCH TYPE [s] PRODUCT OPTION [o] SERIES MODULE [s]	[D] [P] [Sxxxx]	Dual Parallel Wiring Series Device	SWITCH TYPE [s] PRODUCT OPTION [o] MODULE [e][s]	[D] [P] [Exxxx][Sxxxx]	Dual Parallel Wiring EOL + Series	SWITCH TYPE [s] TERMINALS [t] PRODUCT OPTION [o] MODULE [e][s]	[D] [D] [V] [Exxxx][Sxxxx]	Dual DIN Rail Only Alternative Parallel Switch Wiring EOL + Series
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<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b> Terminals +(2,3) &amp; -(4,5) M/S 1 &amp; M/S 2 open Terminals +(2,3) &amp; (6) M/S 1 &amp; M/S 2 closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b> Terminals +(2,3) &amp; -(4,5) M/S 1 &amp; M/S 2 closed Terminals +(2,3) &amp; (6) M/S 1 &amp; M/S 2 open</p>	<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b> Terminals +(2,3) &amp; -(4,5) M/S 1 &amp; M/S 2 open Terminals +(2,3) &amp; (6) M/S 1 &amp; M/S 2 closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b> Terminals +(2,3) &amp; -(4,5) M/S 1 &amp; M/S 2 closed Terminals +(2,3) &amp; (6) M/S 1 &amp; M/S 2 open</p>	<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b> Terminals +(2,3) &amp; -(4,5) M/S 1 &amp; M/S 2 open Terminals +(2,3) &amp; (6) M/S 1 &amp; M/S 2 closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b> Terminals +(2,3) &amp; -(4,5) M/S 1 &amp; M/S 2 closed Terminals +(2,3) &amp; (6) M/S 1 &amp; M/S 2 open</p>	<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b> Terminals +(3,4) &amp; -(5,6) M/S 1 &amp; M/S 2 open Terminals +(3,4) &amp; (7) M/S 1 &amp; M/S 2 closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b> Terminals +(3,4) &amp; -(5,6) M/S 1 &amp; M/S 2 closed Terminals +(3,4) &amp; (7) M/S 1 &amp; M/S 2 open</p>
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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 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>GNExCP6B/C/D/E-BG/PB/PT MANUAL CALL POINT WIRING SCHEMATIC</b>					
	STANDARDS <b>GNExCP6B/C/D/E CALL POINTS</b>	APPROVED <b>R.N.POTTS</b>	DATE <b>07-02-20</b>	ALTERNATIVE MATERIAL			SCALE <b>NTS</b>	SHEET <b>5 OF 6</b>	DRAWING NUMBER <b>D154-06-051</b>



# DUAL MICROSWITCHES IN PARALLEL | LED

# SHEET 6

Notes:  
 1. LED available only on GNExCP6B and GNExCP6C Units  
 2. GNExCP6C Units have the option to remove the LED current-limiting resistor RL1 using LED option 'C'. In all other cases, RL1 is included.

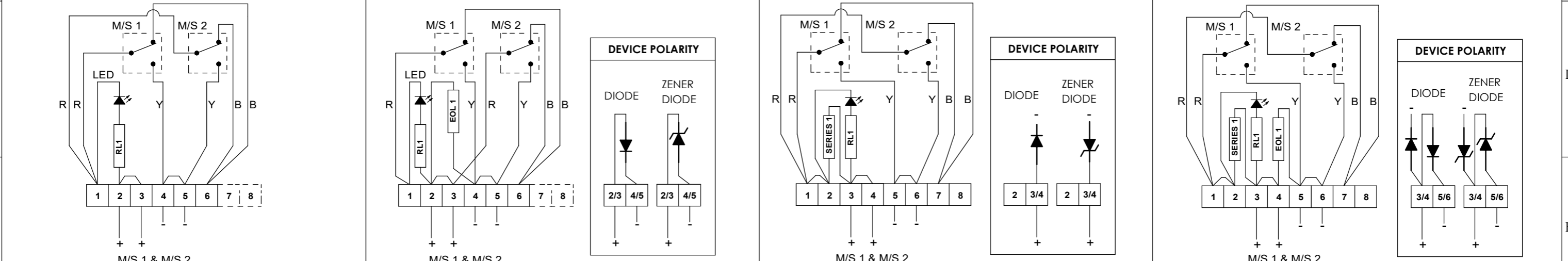
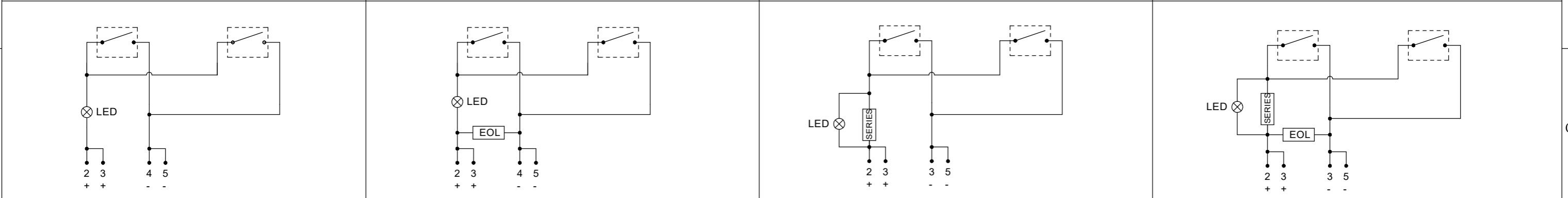
GNExCP6B-BG[s][t][l][e][m][d][v][o][x][u][v][e][s] Series  
 Switch Type [s] Product Version [v] Product Option [o] LED Indicator [u] EOL Module [e]  
 Terminals [t]

Module Device Codes		
	EOL	Series
Resistor	ExxxR	SxxxR
Diode	ED1	SD1
Zener Diode	ExxxZ	SxxxZ
LED	N/A	L or C

ISSUE	MOD No.	REASON - INITIAL - DATE
2	ACN0077	SEE SHEET 1 D.A.H - 28-08-2020
3		SEE SHEET 1 D.A.H - 06-07-2021
4		SEE SHEET 1 D.A.H - 17-11-2022

DUAL SWITCH WITH LED	CONFIG. 21	DUAL SWITCH WITH EOL DEVICE	CONFIG. 22	DUAL SWITCH WITH SERIES DEVICE	CONFIG. 23	DUAL SWITCH WITH EOL & SERIES DEVICE	CONFIG. 24
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SWITCH TYPE [s] [D] PRODUCT OPTION [o] [P] LED INDICATOR [u] [L]	Dual Parallel Wiring LED	SWITCH TYPE [s] [D] PRODUCT OPTION [o] [P] LED INDICATOR [u] [L] EOL MODULE [e] [Exxxx]	Dual Parallel Wiring LED EOL Device	SWITCH TYPE [s] [D] TERMINALS [t] [D] PRODUCT OPTION [o] [P] LED INDICATOR [u] [L] SERIES MODULE [s] [Sxxxx]	Dual DIN Rail Only Parallel Wiring LED Series Device	SWITCH TYPE [s] [D] TERMINALS [t] [D] PRODUCT OPTION [o] [P] LED INDICATOR [u] [L] MODULE [e] [s] [Exxxx][Sxxxx]	Dual DIN Rail Only Parallel Wiring LED EOL + Series
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<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b>                      Terminals + (2,3) &amp; -(4,5) M/S 1 &amp; M/S 2 open                      Terminals +(2,3) &amp; (6) M/S 1 &amp; M/S 2 closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b>                      Terminals + (2,3) &amp; -(4,5) M/S 1 &amp; M/S 2 closed                      Terminals +(2,3) &amp; (6) M/S 1 &amp; M/S 2 open</p>	<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b>                      Terminals + (2,3) &amp; -(4,5) M/S 1 &amp; M/S 2 open                      Terminals +(2,3) &amp; (6) M/S 1 &amp; M/S 2 closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b>                      Terminals + (2,3) &amp; -(4,5) M/S 1 &amp; M/S 2 closed                      Terminals +(2,3) &amp; (6) M/S 1 &amp; M/S 2 open</p>	<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b>                      Terminals +(3,4) &amp; -(5,6) M/S 1 &amp; M/S 2 open                      Terminals +(3,4) &amp; (7) M/S 1 &amp; M/S 2 closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b>                      Terminals +(3,4) &amp; -(5,6) M/S 1 &amp; M/S 2 closed                      Terminals +(3,4) &amp; (7) M/S 1 &amp; M/S 2 open</p>	<p><b>Circuit shown in Unoperated condition</b></p> <p><b>Unoperated condition (Glass Intact / Standby Condition)</b>                      Terminals +(3,4) &amp; -(5,6) M/S 1 &amp; M/S 2 open                      Terminals +(3,4) &amp; (7) M/S 1 &amp; M/S 2 closed</p> <p><b>Operated condition (Glass Broken / Button pushed in)</b>                      Terminals +(3,4) &amp; -(5,6) M/S 1 &amp; M/S 2 closed                      Terminals +(3,4) &amp; (7) M/S 1 &amp; M/S 2 open</p>
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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	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>GNExCP6B/C/D/E-BG/PB/PT MANUAL CALL POINT WIRING SCHEMATIC</b>					
	STANDARDS <b>GNExCP6B/C/D/E CALL POINTS</b>	APPROVED <b>R.N.POTTS</b>	DATE <b>07-02-20</b>	ALTERNATIVE MATERIAL			SCALE <b>NTS</b>	SHEET <b>6 OF 6</b>	DRAWING NUMBER <b>D154-06-051</b>

# EU 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:** GNExCP6A-BG, GNExCP6A-PB, GNExCP6A-PT  
GNExCP6B-BG, GNExCP6B-PB, GNExCP6B-PT,  
GNExCP6C-BG, GNExCP6C-PB, GNExCP6C-PT  
GNExCP6D-BG, GNExCP6D-PB, GNExCP6D-PT  
GNExCP6E-BG, GNExCP6E-PB, GNExCP6E-PT

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## Directive 2014/34/EU: Equipment and Protective Systems for use in Potentially Explosive Atmospheres (ATEX)

Notified Body for EU type Examination (Module B):	Sira Certification Service Notified Body No.: 2813 CSA Group Netherlands B.V, Utrechtseweg 310, 6812 AR, Arnhem, Netherlands										
EU-type Examination Certificate (Module B):	Sira 09ATEX3286X										
Notified Body for Quality Assurance Notification / Conformity to EU-type based on quality assurance of the production process (Module D):	Sira Certification Service Notified Body No.: 2813 CSA Group Netherlands B.V, Utrechtseweg 310, 6812 AR, Arnhem, Netherlands										
Quality Assurance Notification (Module D):	SIRA 05 ATEX M342										
Provisions fulfilled by the equipment:	<table><tr><td>GNExCP6A:</td><td>II 2G Ex db eb IIC T6 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +70°C) or</td></tr><tr><td>GNExCP6B:</td><td>II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +50°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +50°C) or</td></tr><tr><td>GNExCP6C:</td><td>II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C) or</td></tr><tr><td>GNExCP6D:</td><td>II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +70°C) or</td></tr><tr><td>GNExCP6E:</td><td>II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C)</td></tr></table>	GNExCP6A:	II 2G Ex db eb IIC T6 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +70°C) or	GNExCP6B:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +50°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +50°C) or	GNExCP6C:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C) or	GNExCP6D:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +70°C) or	GNExCP6E:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C)
GNExCP6A:	II 2G Ex db eb IIC T6 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +70°C) or										
GNExCP6B:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +50°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +50°C) or										
GNExCP6C:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C) or										
GNExCP6D:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +70°C) or										
GNExCP6E:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C)										
Standards applied:	EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015/A1:2108 IEC 60079-18:2015/AC:2018 EN 60079-31: 2014 IP6X Dust Protection to EN60079-0 / EN 60079-31										

## 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
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# EU Declaration of Conformity



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

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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-043\_Issue\_J  
Date and Place of Issue: London, 23/12/2020

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

Equipment Type: GNExCP6A-BG, GNExCP6A-PB, GNExCP6A-PT  
GNExCP6B-BG, GNExCP6B-PB, GNExCP6B-PT,  
GNExCP6C-BG, GNExCP6C-PB, GNExCP6C-PT  
GNExCP6D-BG, GNExCP6D-PB, GNExCP6D-PT  
GNExCP6E-BG, GNExCP6E-PB, GNExCP6E-PT

Directive UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1 : Product or Protective System Intended for use in Potentially Explosive Atmospheres (UKCA)

Notified Body for UK type Examination (Module B):	Sira Certification Service Notified Body No.: 0518 Rake Lane, Eccleston, Chester CH4 9JN, UK										
UK-type Examination Certificate (Module B):	CSAE 21UKEX3556X										
Notified Body for Quality Assurance Notification / Conformity to EU-type based on quality assurance of the production process (Module D):	Sira Certification Service Notified Body No.: 0518 Rake Lane, Eccleston, Chester CH4 9JN, UK										
Quality Assurance Notification (Module D):	CSAE 22UKQAN0046										
Provisions fulfilled by the equipment:	<table border="0"> <tr> <td>GNExCP6A:</td> <td>II 2G Ex db eb IIC T6 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +70°C) or</td> </tr> <tr> <td>GNExCP6B:</td> <td>II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +50°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +50°C) or</td> </tr> <tr> <td>GNExCP6C:</td> <td>II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C) or</td> </tr> <tr> <td>GNExCP6D:</td> <td>II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +70°C) or</td> </tr> <tr> <td>GNExCP6E:</td> <td>II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C)</td> </tr> </table>	GNExCP6A:	II 2G Ex db eb IIC T6 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +70°C) or	GNExCP6B:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +50°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +50°C) or	GNExCP6C:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C) or	GNExCP6D:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +70°C) or	GNExCP6E:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C)
GNExCP6A:	II 2G Ex db eb IIC T6 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +70°C) or										
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GNExCP6D:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +70°C) or										
GNExCP6E:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C)										
Standards applied:	EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015/A1:2108 IEC 60079-18:2015/AC:2018 EN 60079-31: 2014 IP6X Dust Protection to EN60079-0 / EN 60079-31										

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
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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.



# UKCA Declaration of Conformity



## Other Standards and Regulations

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

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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.

Martin Streetz  
Quality Assurance Manager

Document No.: DC-094\_Issue\_A  
Date and Place of Issue: London, 04/02/2022