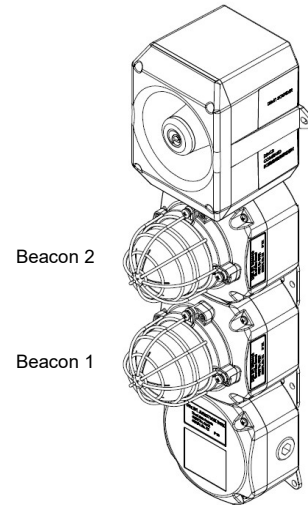
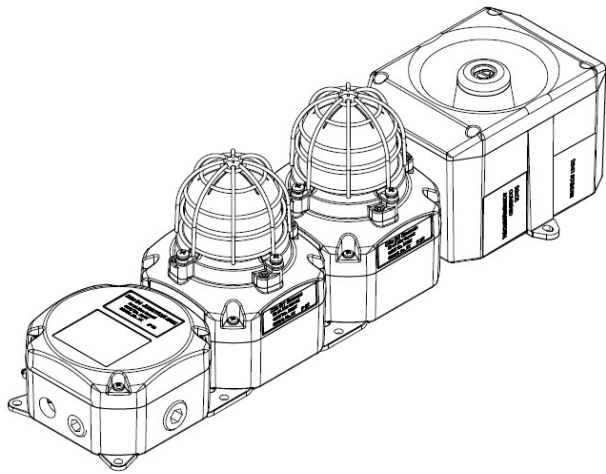


INSTRUCTION MANUAL

D2xC3 Alarm Bar

2 Beacons & Alarm Horn with Junction Box



1) Warnings

Please see individual product instruction manual. See Table 1 for Instruction Manual Document Number.

2) Rating & Marking Information

Please see individual product instruction manual. See Table 1 for Instruction Manual Document Number.

All individual unit ratings must be suitable for the installation.

3) Type Approval Standards

Please see individual product instruction manual. See Table 1 for Instruction Manual Document Number.

4) Installation Requirements

Please see individual product instruction manual. See Table 1 for Instruction Manual Document Number.

5) Special Conditions of Use

Please see individual product instruction manual. See Table 1 for Instruction Manual Document Number.

6) Part Coding

Part Code:	Identifier - Description
Product Type	D2xC3
Junction Box	J1 = Junction Box / Standard J2 = Junction Box / With mounting plate
Beacon Type (Add Code for each Beacon in Alarm Bar)	1Y = D2xB1X05 2Y = D2xB1X10 5Y = D2xB1LD2 Where Y = Lens Colour, choose from: A = Amber, B = Blue, C = Clear, G = Green, M = Magenta, R = Red, Y = Yellow
Sounder	S1 = D2xS1 Sounder
Voltage	DC024 = 24Vdc DC048 = 48Vdc AC115 = 115-120Vac 50/60Hz AC230 = 220-230Vac 50/60Hz
Cable Entries [e]	A = 2 x M20 B = 2 x 1/2" NPT + 2 x 3/4" NPT C = 2 x 3/4" NPT (Adaptors) + 2 x 3/4" NPT D = 2 x M25 (Adaptors)
Stopping Plug / Adaptor Material [m]	B = Brass N = Nickel Plated S = Stainless Steel
Guard / Tag Material [s]	1 = 316 St.Steel Guard & 316 Tag 3 = 316 St.Steel Guard, 316 Tag & Duty Labels 5 = 316 St.Steel Guard, 316 Tag & Duty Labels attached by steel wire
Product Version [v]	A = ATEX / IECEx / UL / cUL
Product Option [o]	1 = Standard Wiring (Positive Switching) 2 = Independent Wiring (Positive Switching) 3 = Alt. Standard Wiring (Negative Switching) 4 = Independent Wiring (Negative Switching) 5 = Beacons & Sounder Linked w/ Line Monitoring 6 = Independent Wiring w/ Line Monitoring W = Special Wiring X = Special Configuration
Assembly Colour [x]	R = Red, G = Grey Other colours also possible, contact E2S sales

Component Part Code Ref.	Component Description	Document Number
D2xB1X05	5J Xenon Beacon	D211-00-201-IS
D2xB1X10	10J Xenon Beacon	D211-00-201-IS
D2xB1LD2	Multifunction LED Beacon	D211-00-401-IS
D2xJ1	Junction Box	D211-00-501-IS
D2xS1	Alarm Horn	D189-00-001-IS

Table 1: Product Instruction Manual Reference

9) Power Supply Selection

For Voltage ranges of complete units, take the highest Minimum value and lowest Maximum value in the ranges of the component units. For Current and Max Current ratings of complete units, add the ratings from the component units:

Please see individual product instruction manual for Voltage Range, Current and Max Current values.

For E.g. D2X[C3][J1][1G][1A][S1][AC115]:

Unit Type	D2xJ1	D2xB1X05	D2xB1X05	D2xS1	D2xC3 Total
Voltage Range	230Vac 60Hz max.	115- 120Vac 50/60Hz	115- 120Vac 50/60Hz	115Vac +/-10% 60Hz	115-120Vac 50/60Hz
Current	N/A	80mA	80mA	89mA	249mA
Max Current	N/A	80mA	80mA	91mA	251mA

10) Selection of Cable, Cable Glands, Blanking Elements & Adapters

Please see individual product instruction manual.

The D2xC3 Alarm Bar can be supplied with the following types of adapters:

M20 to M25
1/2" NPT to 3/4" NPT

NOTE: Stopping plugs cannot be fitted into adapters.

11) Earthing

The Alarm Bar is provided with an M4 earth stud on the first unit. Earthing connections should be made to the M4 earth stud, using a ring crimp terminal to secure the earth conductor to the earth stud.

If the optional mounting plate is selected, an M6 earth post is located by the entry unit on the plate.

Please see individual product instruction manual for details of earthing each beacon

12) Cable Connections

Electrical connections are to be made into the din rail terminals located in the junction box enclosure. See section 8 of this manual for access to the enclosure.

Wires having a cross sectional area between 0.5 mm² to 2.5mm² can be connected to each terminal way. Strip wires to 8mm. Wires may also be fitted using ferrules. Terminal screws need to be tightened down with a tightening torque of 0.45 Nm / 5 Lb-in. When connecting wires to the terminals great care should be taken to dress the wires so that when the cover is inserted into the chamber the wires do not exert excess pressure on the terminal blocks. This is particularly important when using cables with large cross-sectional areas such as 2.5mm².

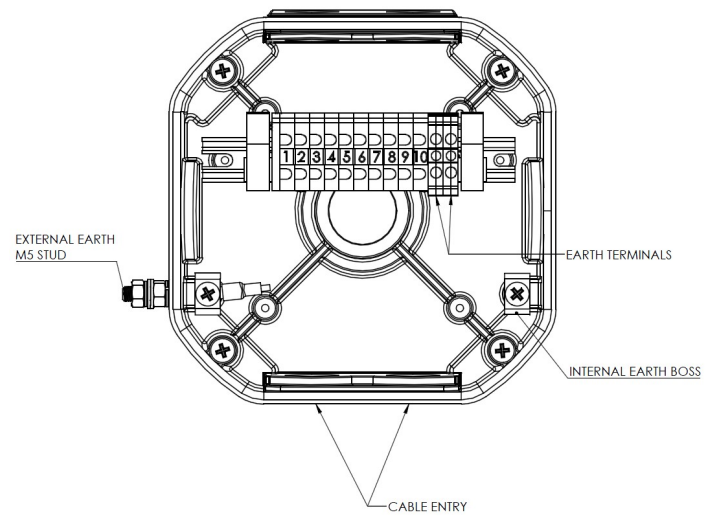


Fig. 3: Junction Box Internals

13) Wiring

See table 2 for summary of wiring diagrams
See schematic document D215-06-148

Note:

For units with product codes where Product Option = X or W, please see special wiring schematic supplied with the unit documentation.

14) Interchangeable & Spare Parts

The Beacon lens cover is interchangeable, contact E2S Ltd for a replacement lens cover available in various colours.

To change the lens cover, unscrew the 4-off M5 posi pan head screws, spring and flat washers using a screwdriver. Remove the wire guard and replace the old lens cover with the new lens cover.

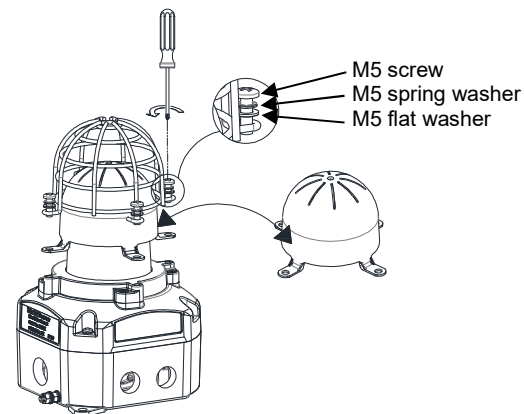


Fig. 6 Replacement of beacon lens cover

To reassemble optional duty label, see figure 7.

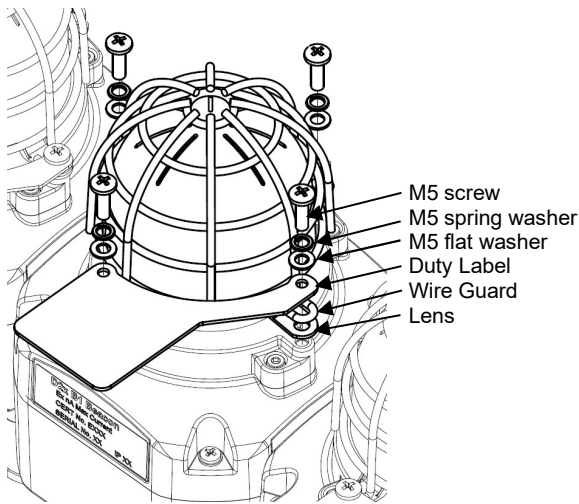


Fig. 7: Assembly of Duty Label

15) Maintenance, Overhaul and Repair

Please see individual product instruction manual. See Table 1 for Instruction Manual Document Number.

DC DIAGRAMS				
Config.	Voltage	Configuration Description	Features	Product Option [o]
1	DC	Standard wiring Positive switching (Default)	<ul style="list-style-type: none"> Common negative connection to all signals Positive stage switching on alarm horn sounder 	1
2	DC	Independent wiring Positive switching	<ul style="list-style-type: none"> Independent wiring to all signals Positive stage switching on alarm horn sounder 	2
3	DC	Alt. Standard wiring Negative switching	<ul style="list-style-type: none"> Common negative connection to all signals Negative stage switching on alarm horn sounder 	3
4	DC	Independent wiring Negative switching	<ul style="list-style-type: none"> Independent wiring to all signals Negative stage switching on alarm horn sounder 	4
5	DC	Beacon and sounder stages linked with line monitoring	<ul style="list-style-type: none"> Beacon 1 and 2 linked to sounder stages 1 and 2 Positive stage switching on alarm horn sounder 	5
6	DC	Independent wiring for all signals with line monitoring	<ul style="list-style-type: none"> Independent wiring to all signals Independent wiring to alarm horn sounder stages 1 and 2 Positive stage switching on alarm horn sounder 	6
AC DIAGRAMS				
Config.	Voltage	Configuration Description	Features	Product Option [o]
1	AC	Standard wiring (Default)	<ul style="list-style-type: none"> Common neutral connection to all signals 	1
2	AC	Independent wiring	<ul style="list-style-type: none"> Independent wiring to all signals 	2
Table 2 – Summary of Wiring Configurations				
NOTE: Please see schematic document D215-06-148 for line monitoring details.				

DC CONFIGURATIONS

E2S PART NO
D2x[C3][J1][XX][XX][S1]
D2x[C3][J2][XX][XX][S1]

DESCRIPTION
D2x C3 STACK - 2 BEACONS & ALARM HORN
WITH JUNCTION BOX

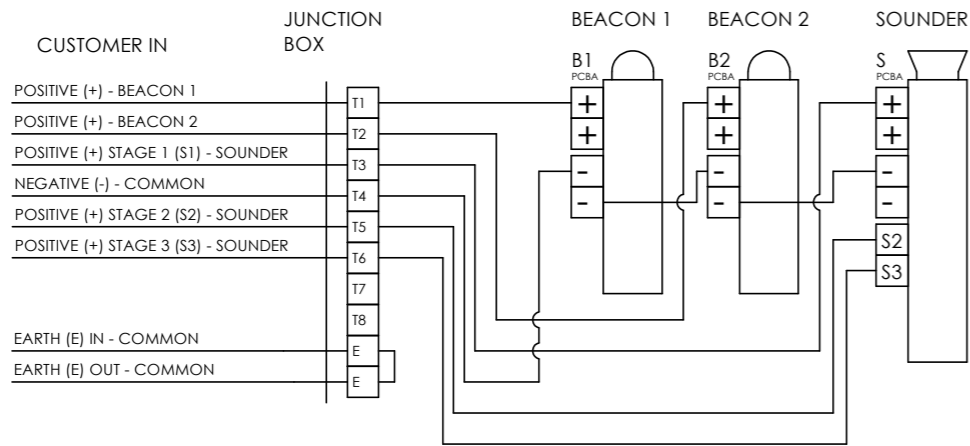
DATA REFERENCE
1-35-020

Note: Alternative wiring configurations may be available on request - contact E2S sales

ISSUE	MOD No.	REASON - INITIAL - DATE
1		INTRODUCTION DAH - 15-08-2019
2		-VE / N COMMON MOVED TO T3 DAH - 21-02-2020
3		CONFIG 1-2 ADDED. SH2 & 3 ADDED DAH - 20/04/2023

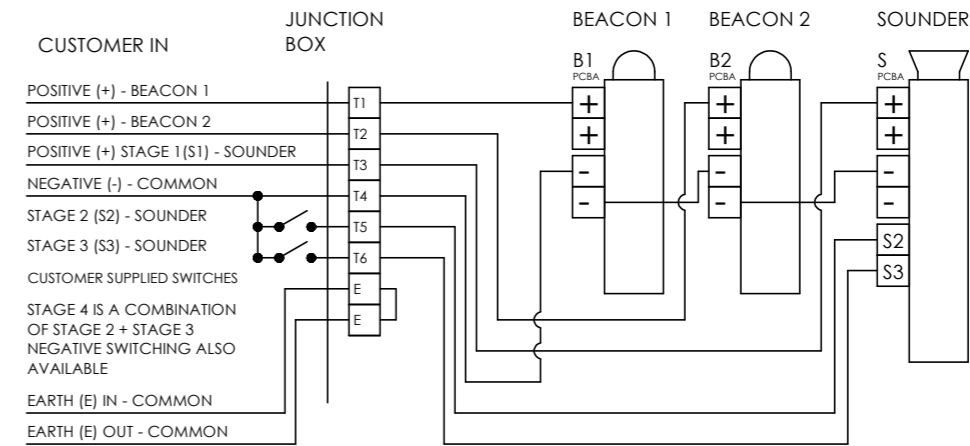
CONFIG. 1 (DEFAULT)

DC VOLTAGE SUPPLY
 COMMON NEGATIVE CONNECTION TO ALL SIGNALS
 POSITIVE STAGE SWITCHING FOR ALARM HORN SOUNDER



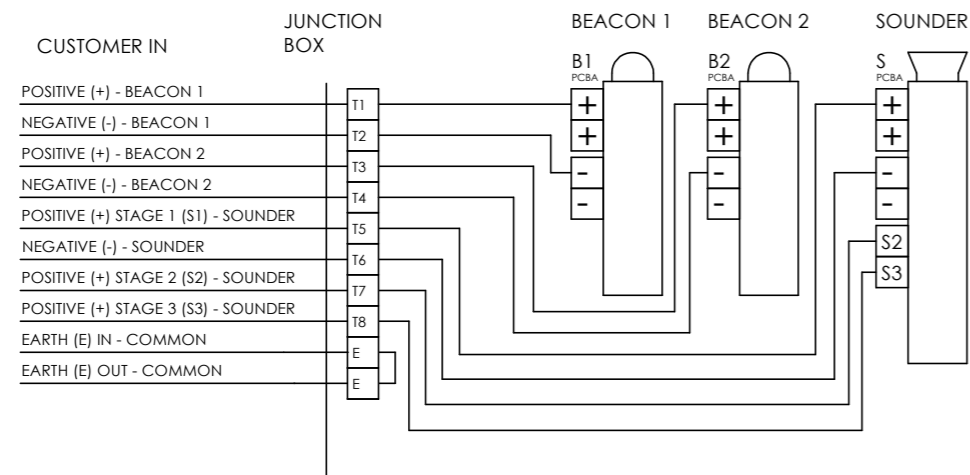
CONFIG. 3

DC VOLTAGE SUPPLY
 COMMON NEGATIVE CONNECTION TO ALL SIGNALS
 NEGATIVE STAGE SWITCHING FOR ALARM HORN SOUNDER



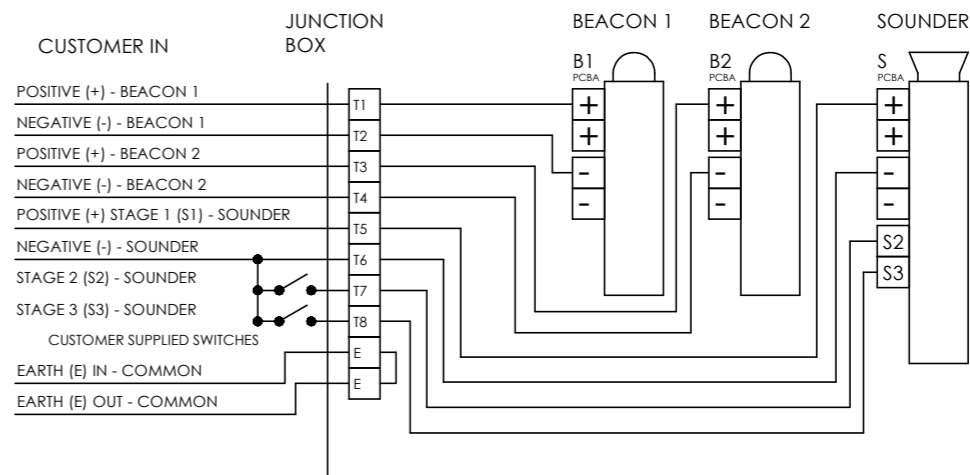
CONFIG. 2

DC VOLTAGE SUPPLY
 INDEPENDENT CONNECTIONS TO ALL SIGNALS
 POSITIVE STAGE SWITCHING FOR ALARM HORN SOUNDER



CONFIG. 4

DC VOLTAGE SUPPLY
 INDEPENDENT CONNECTIONS TO ALL SIGNALS
 NEGATIVE STAGE SWITCHING FOR ALARM HORN SOUNDER



DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN D.HOWGILL	DATE 15-08-2019	SURFACE FINISH 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		A2	
	CHECKED R.N.POTTS	DATE 15-08-2019								MATERIAL
	APPROVED R.N.POTTS	DATE 15-08-2019								
STANDARDS				EUROPEAN SAFETY SYSTEMS LTD. AS PER LATEST DATE OF ISSUE SHOWN ABOVE	TITLE D2x C3 STACK - 2 BEACONS & ALARM HORN WITH JUNCTION BOX WIRING SCHEMATIC	SCALE NTS	SHEET 1 OF 3	DRAWING NUMBER D215-06-148		

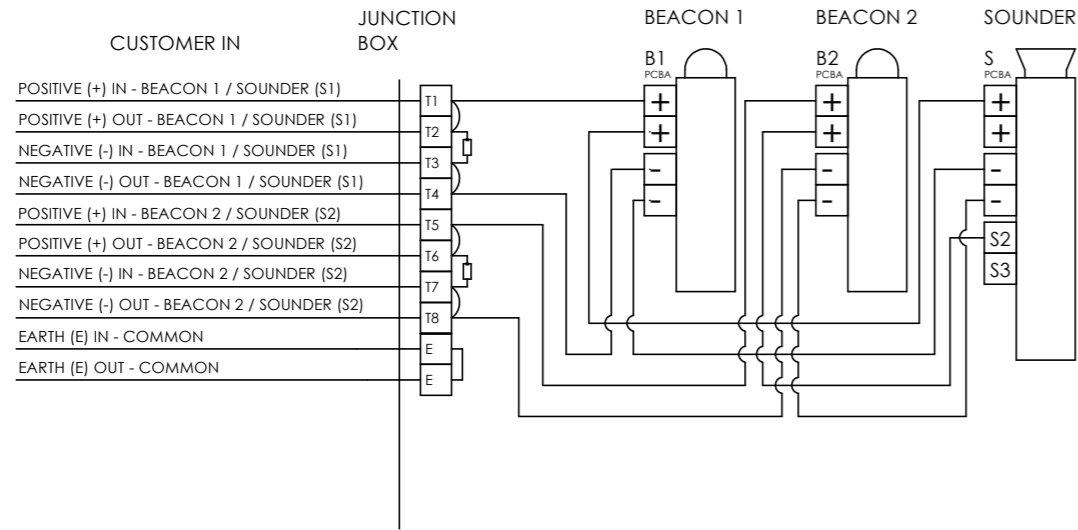
DC CONFIGURATIONS

ISSUE	MOD No.	REASON - INITIAL - DATE
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2		SEE SH1
3		SEE SH1

CONFIG. 5

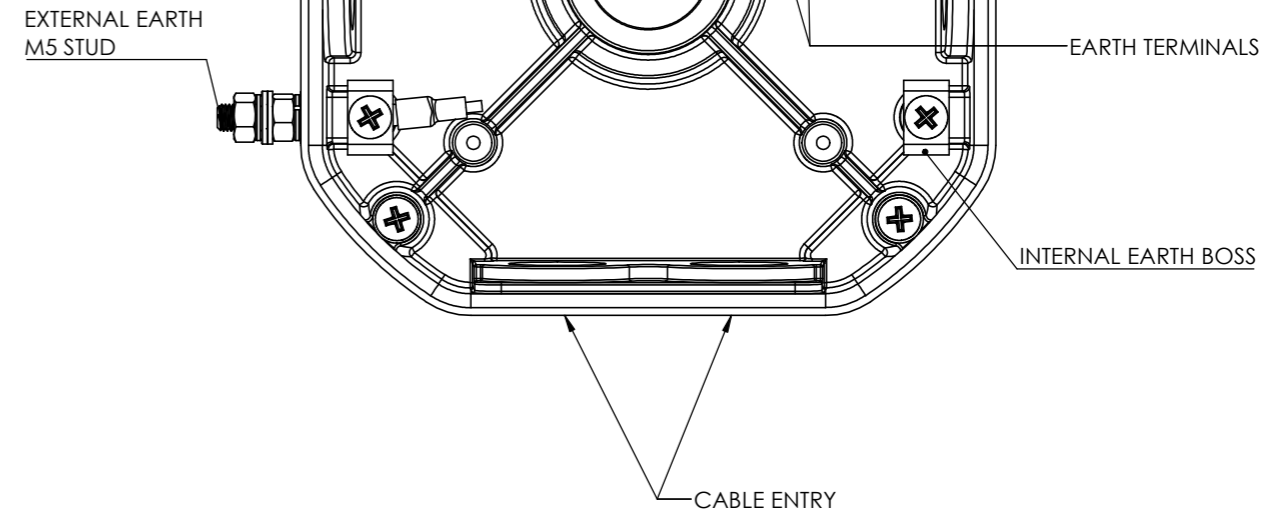
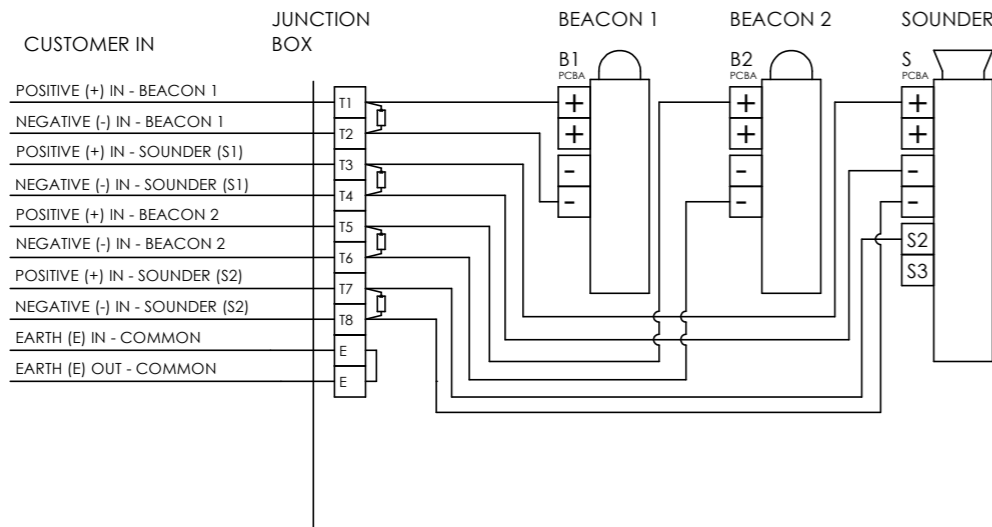
DC VOLTAGE SUPPLY
 BEACON 1 AND SOUNDER STAGE 1 LINKED ; BEACON 2 AND SOUNDER STAGE 2 LINKED
 INDEPENDENT STAGE WIRING FOR ALARM HORN SOUNDER WITH END OF LINE MONITORING (2 STAGES)

ENTRY TERMINALS



CONFIG. 6

DC VOLTAGE SUPPLY
 INDEPENDENT CONNECTIONS ON ALL SIGNALS
 INDEPENDENT STAGE WIRING FOR ALARM HORN SOUNDER WITH END OF LINE MONITORING (2 STAGES)



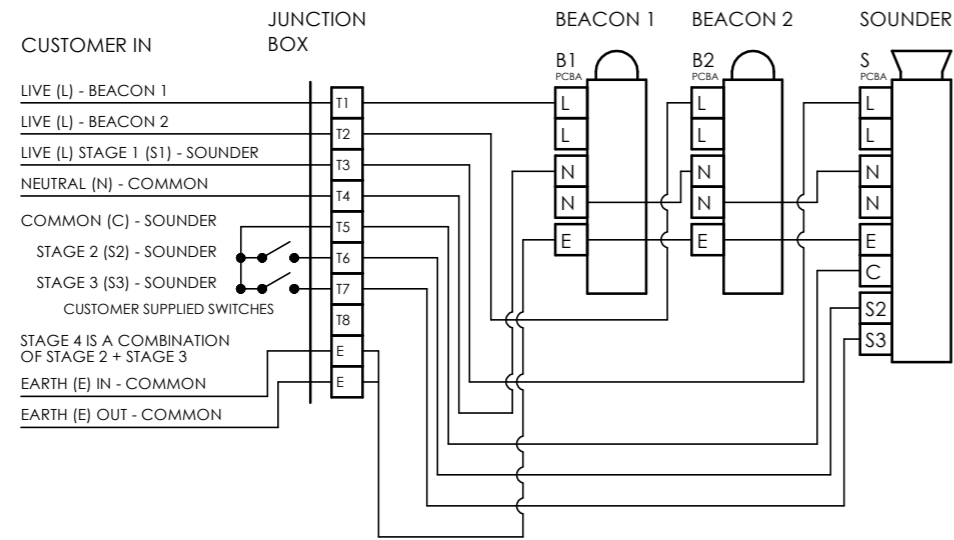
DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN	DATE	SURFACE FINISH FINISH	WEIGHT (kg)	THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY SYSTEMS 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	 A2	
	CHECKED	DATE					MATERIAL		TITLE D2xC3 STACK - 2 BEACONS & ALARM HORN WITH JUNCTION BOX WIRING SCHEMATIC
	APPROVED	DATE							ALTERNATIVE MATERIAL
STANDARDS	D.HOWGILL	15-08-2019			EUROPEAN SAFETY SYSTEMS LTD. AS PER LATEST DATE OF ISSUE SHOWN ABOVE				

AC CONFIGURATIONS

ISSUE	MOD No.	REASON - INITIAL - DATE
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2		SEE SH1
3		SEE SH1

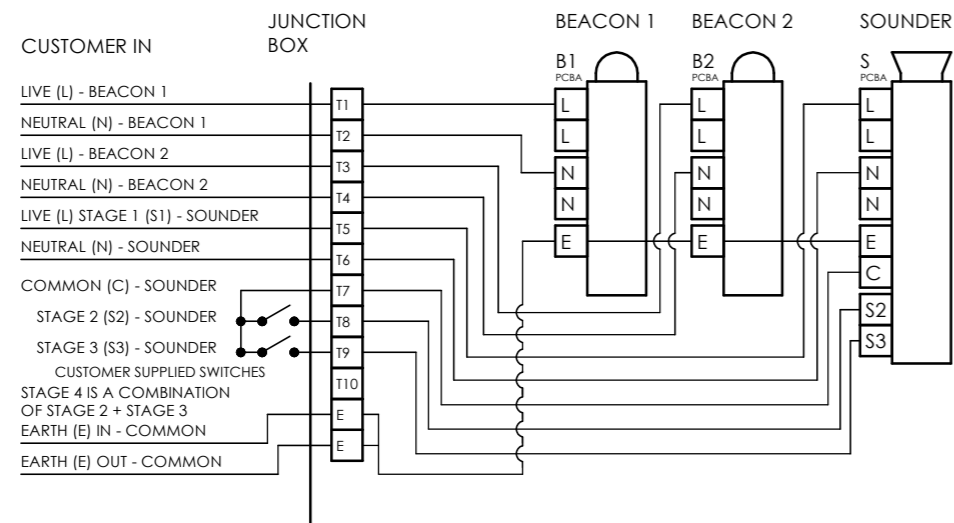
CONFIG. 1 (DEFAULT)

- AC VOLTAGE SUPPLY
- COMMON NEUTRAL CONNECTION TO ALL SIGNALS
- COMMON STAGE SWITCHING FOR ALARM HORN SOUNDER



CONFIG. 2

- AC VOLTAGE SUPPLY
- INDEPENDENT CONNECTIONS TO ALL SIGNALS
- COMMON STAGE SWITCHING FOR ALARM HORN SOUNDER



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

DRAWN	DATE
D.HOWGILL	15-08-2019
CHECKED	DATE
R.N.POTTS	15-08-2019
APPROVED	DATE
R.N.POTTS	15-08-2019

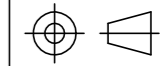
SURFACE FINISH	WEIGHT (kg)
FINISH	
MATERIAL	
ALTERNATIVE MATERIAL	

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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



A2

TITLE D2xC3 STACK - 2 BEACONS & ALARM HORN WITH JUNCTION BOX WIRING SCHEMATIC

SCALE	SHEET	DRAWING NUMBER
NTS	3 OF 3	D215-06-148