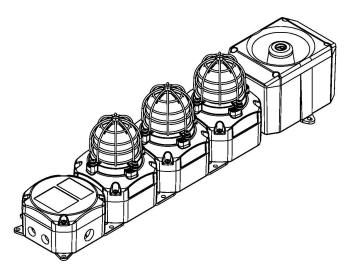
INSTRUCTION MANUAL D2xC3 Alarm Bar 3 Beacons & Alarm Horn with Junction Box



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.

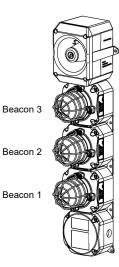
5) Special Conditions of Use

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

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





6) Part Coding

Part Code:	Identifier - Description
Product Type	D2xC3
Junction Box	J1 = Junction Box / Standard
	J2 = Junction Box / With mounting plate
Beacon Type	1Y = D2xB1X05
(Add Code for each	2Y = D2xB1X10
Beacon in Alarm Bar)	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
Ochla Fatrica (c)	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 /	B = Brass
Adaptor Material [m]	N = Nickel Plated
	S = Stainless Steel
Guard / Tag Material	1 = 316 St.Steel Guard & 316 Tag
[s]	3 = 316 St.Steel Guard, 316 Tag & Duty Labels
[0]	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

7) Location and Mounting

The location of the Alarm Bar should be made with due regard to the area over which the warning signal must be visible/audible. They should only be fixed to services that can carry the weight of the unit.

The D2xC3J1 Alarm Bar should be secured to any flat surface using eight \emptyset 7mm fixing holes in the feet of the Alarm Bar in addition to two \emptyset 6.7 slotted holes in the sounder. See figure 1a.

The plated D2xC3J2 Alarm Bar should be secured to any flat surface using twelve Ø7mm fixing holes in the plate. See figure 1c.

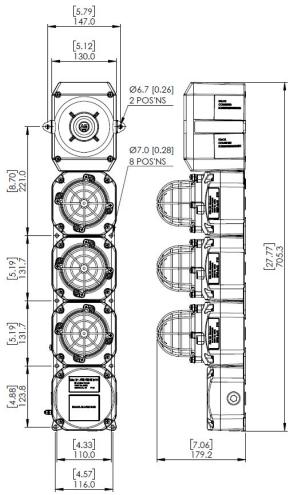


Fig. 1a: Fixing Location for C3 Alarm Bar

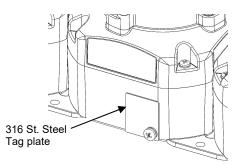


Fig. 1b: Equipment Tag Location

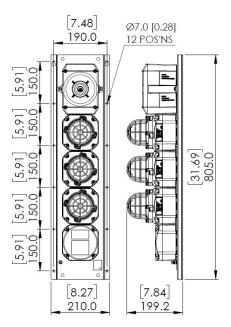


Fig. 1c: Fixing Location for plated Alarm Bar

8) Access to the Enclosure



Warning – High voltage may be present, risk of electric shock. DO NOT open when energised, disconnect power before opening.



Warning – Hot surfaces. External surfaces and internal components may be hot after operation, take care when handling the equipment.

In order to connect the electrical supply cables to the junction box it is necessary to remove the cover to gain access to the chamber. To access the chamber, loosen the four M4 posi pan head screws and withdraw the cover. (See figure 2).

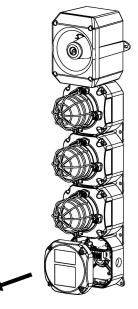


Fig. 2: Accessing the Junction Box

To replace cover, check that the 'O' ring seal is in place. Carefully push the cover in place. Insert and tighten down M4 screws and fibre washers.

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.

Unit Type	D2xJ1	D2xB1X05	D2xB1X05	D2xB1X05	D2xS1	D2xC3 Total
Voltage Range	230Vac 60Hz max.	115- 120Vac 50/60Hz	115- 120Vac 50/60Hz	115- 120Vac 50/60Hz	115Vac +/-10% 60Hz	115- 120Vac 50/60Hz
Current	N/A	80mA	80mA	80mA	89mA	329mA
Max Current	N/A	80mA	80mA	80mA	91mA	331mA

For E.g. D2XC3 J1 1G 1A 1R S1 AC115:

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 adaptors.

11) Earthing

The Alarm Bar is provided with an M5 earth stud on the first unit. Earthing connections should be made to the M5 earth stud, using a ring crimp terminal to secure the earth conductor to the earth stud.

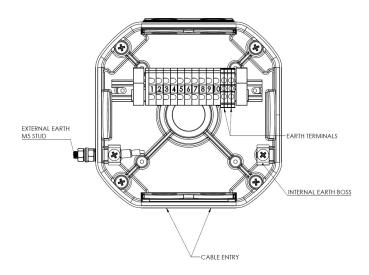
If the optional mounting plate is selected, an M6 earth post is located by the entry unit on the plate.

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 mm^2 to 2.5mm^2 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 2.5 mm^2 .





13) Wiring

See table 2 for summary of wiring diagrams See schematic document D215-06-158

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.

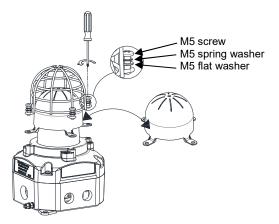


Fig. 6: Replacement of beacon lens cover

To reassemble optional duty label, see figure 7.

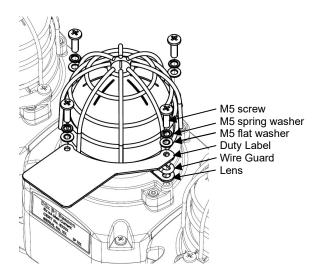


Fig. 7: Assembly of Duty Label

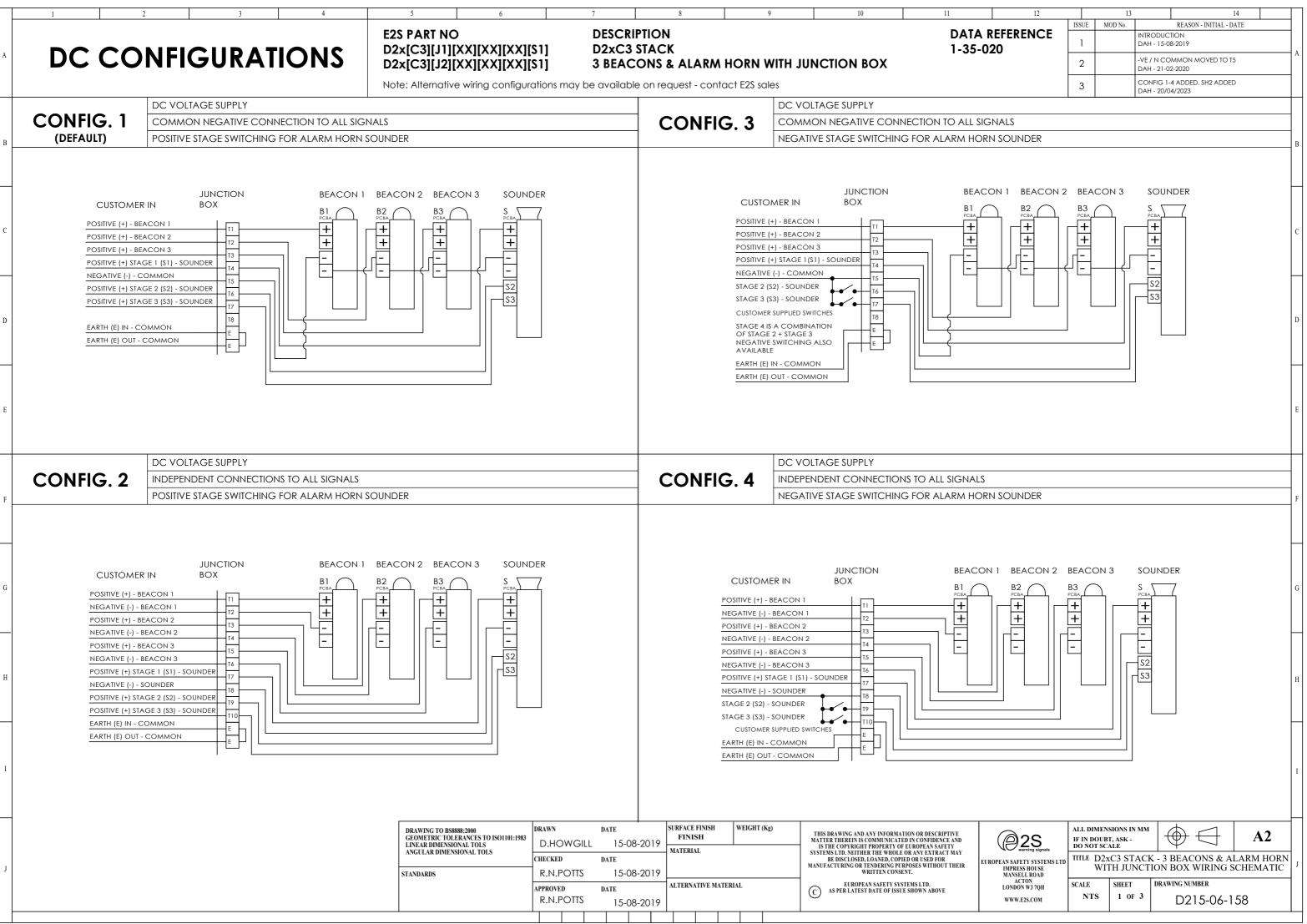
15) Maintenance, Overhaul and Repair

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

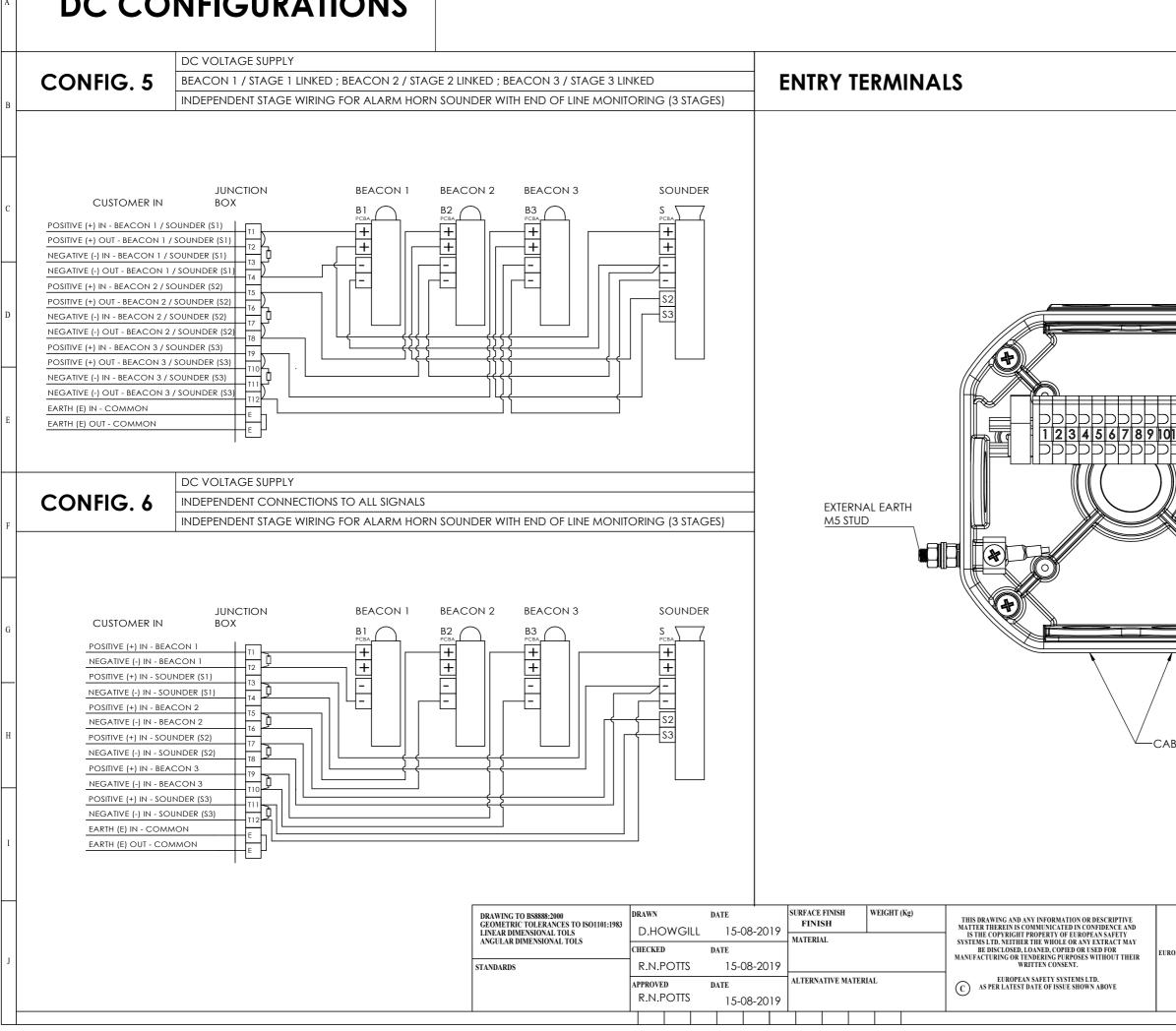
Config.	Voltage Configuration Description Features		Product Option [o]	
1	DC	Standard wiring Positive switching (Default)	 Common negative connection to all signals Positive stage switching on alarm horn sounder 	1
2	DC	Independent wiring Positive switching	 Independent wiring to all signals Positive stage switching on alarm horn sounder 	2
3	DC	Alt. Standard wiring Negative switching	 Common negative connection to all signals Negative stage switching on alarm horn sounder 	3
4	DC	Independent wiring Negative switching	 Independent wiring to all signals Negative stage switching on alarm horn sounder 	4
5	DC	Beacon and sounder stages linked with line monitoring	 Beacon 1, 2 and 3 linked to sounder stages 1, 2 and 3 Positive stage switching on alarm horn sounder 	5
6	DC	Independent wiring for all signals with line monitoring	 Independent wiring to all signals Independent wiring to all alarm horn sounder stages Positive stage switching on alarm horn sounder 	6
			AC DIAGRAMS	
Config.	Voltage	Configuration Description	Features	Product Option [o]
1	AC	Standard wiring (Default)	Common neutral connection to all signals	1
2	AC	Independent wiring	Independent wiring to all signals	2
	1	Table 2 –	Summary of Wiring Configurations	1

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

DESCRIPTION D2xC3 STACK



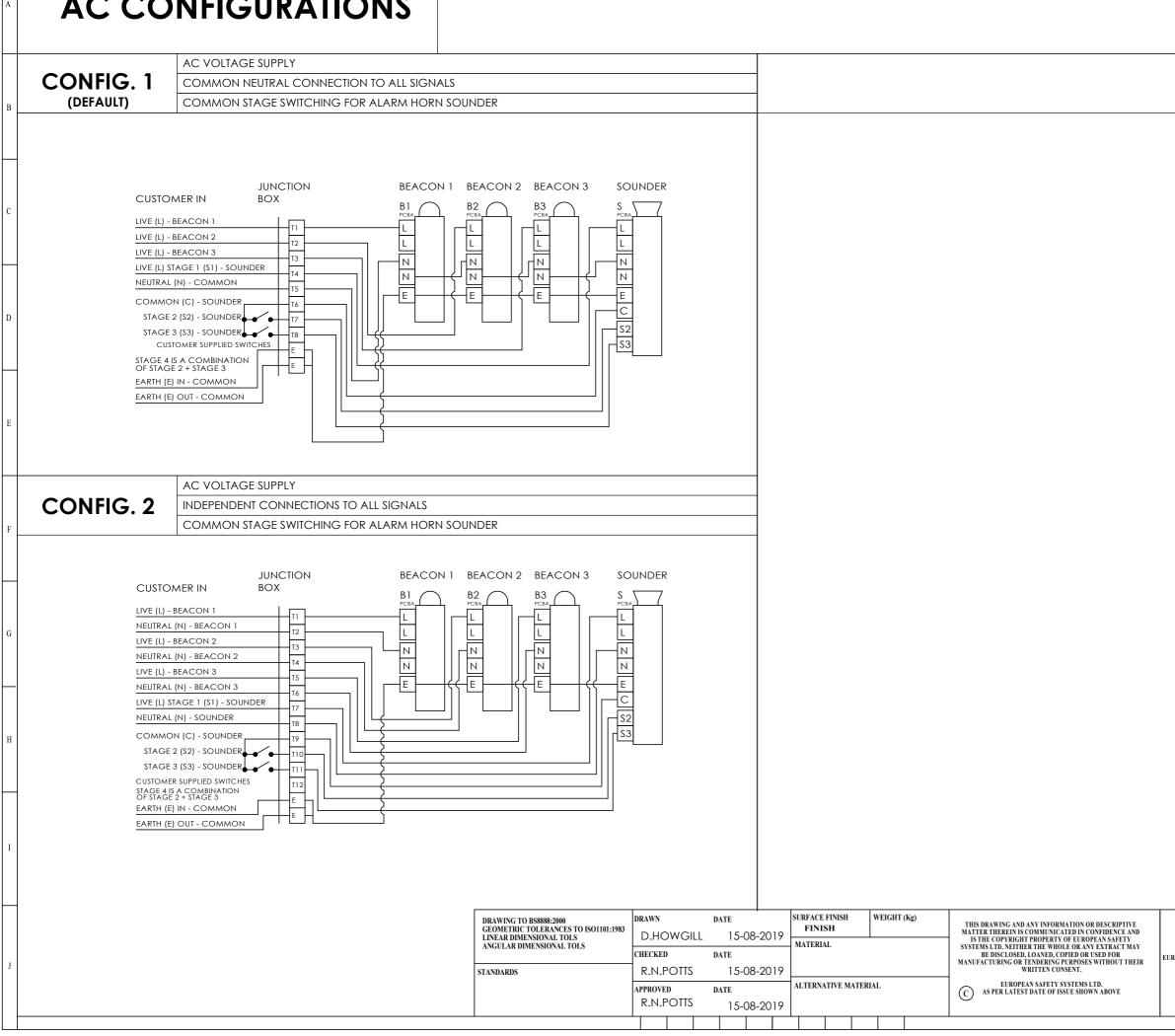
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