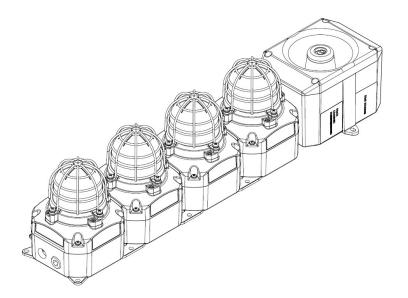
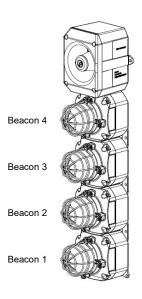
INSTRUCTION MANUAL D2xC3 Alarm Bar

4 Beacons & Alarm Horn







Warnings

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

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.

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.

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
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	N1 = No Junction Box / Standard
	N2 = No Junction Box / With mounting plate
Beacon Type	1X = D2xB1X05
(Add Code for each	2X = D2xB1X10
Beacon in Alarm Bar)	5X = D2xB1LD2
	Where X = 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
	C = 2 x 3/4" NPT (Adaptors)
	D = 2 x M25 (Adaptors)
	E = 1 x 3/4" NPT (Adaptor) + 1 x M20
	F = 1 x M25 (Adaptor) + 1 x M20
Stopping Plug / Adaptor	B = Brass
Material [m]	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
Production Option [o]	1 = Standard Wiring (Positive Switching)
	2 = Independent Wiring (Positive Switching)
	3 = Alt. Standard Wiring (Negative Switching)
	4 = Independent Wiring (Negative Switching)
	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 D2xC3N1 Alarm Bar should be secured to any flat surface using eight Ø7mm fixing holes in the feet of the Ålarm Bar in addition to two Ø6.7 slotted holes on the Sounder. See figure 1a.

The plated D2xC3N2 Alarm Bar should be secured to any flat surface using twelve Ø7mm fixing holes in the plate. See figure 1c.

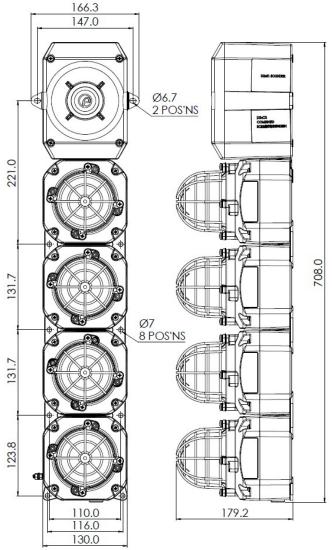


Fig. 1a: Fixing Location for C3 Alarm Bar

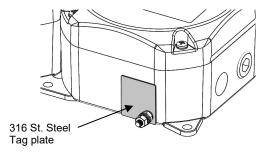


Fig. 1b: Equipment Tag Location

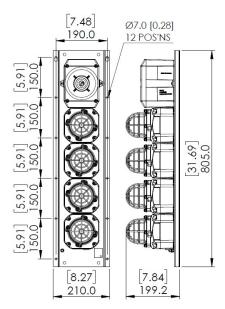


Fig. 1c: Fixing Location for C3 Alarm Bar

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.

To connect the electrical supply cables to the beacon it is necessary to remove the cover to gain access to the chamber. To access the chamber, loosen the four M4 posipan head screws and withdraw the cover. (See figure 2).

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.

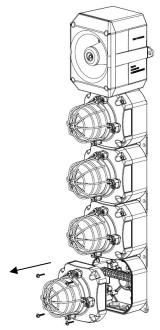


Fig. 2: Accessing the Enclosure, PCBA & Terminals

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. D2XC3 N1 1G 1A 1R 1B S1 AC115:

Unit Type	D2xB1X05	D2xB1X05	D2xB1X05	D2xB1X05	D2xS1	D2XC3 Total
Voltage Range	115- 120Vac 50/60Hz	115- 120Vac 50/60Hz	115- 120Vac 50/60Hz	115- 120Vac 50/60Hz	115Vac +/-10% 60Hz	115- 120Vac 50/60Hz
Current 80mA		80mA	80mA	80mA	89mA	409mA
Max Current	80mA	80mA	80mA	80mA	91mA	411mA

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 M20 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 terminal block and PCBA located in the first beacon. See section 8 of this manual for access to the enclosure. See also individual manuals for detail on wiring into PCBA terminals.

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.

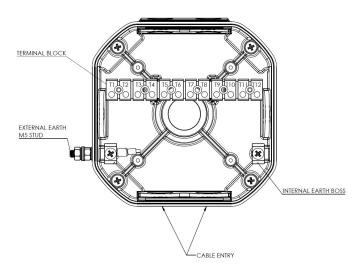


Fig. 3: Entry Unit (Beacon 1) Internal Detail & Terminal Block

13) Wiring

See table 2 for summary of wiring diagrams See schematic document D215-06-155

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.

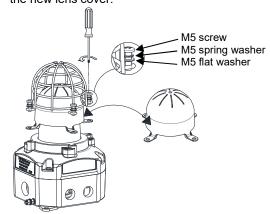


Fig. 6: Replacement of beacon lens cover

To reassemble optional duty label, see figure 7.

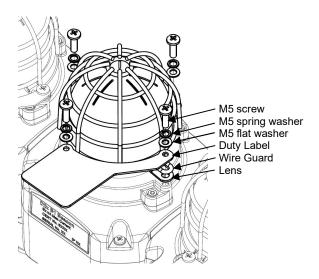


Fig. 7: Assembly of Duty Label

15) Maintenance, Overhaul and Repair

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

		l l	DC DIAGRAMS	
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
			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
		Table 2 – Sum	mary of Wiring Configurations	

