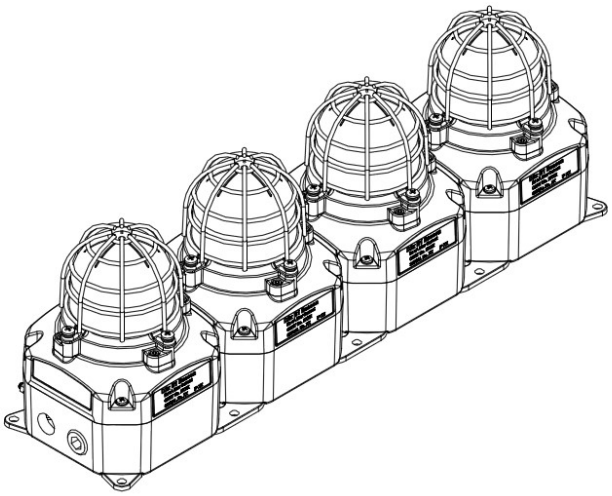
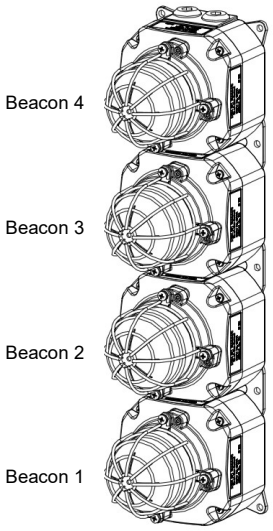
INSTRUCTION MANUAL
D2xP1 Status Light
4 Beacons





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

Table 1: Product Instruction Manual Reference

6) Part Coding

Part Code:	Identifier - Description
Product Type	D2xP1
Junction Box	N1 = No Junction Box / Standard N2 = No Junction Box / With mounting plate
Beacon Type (Add Code for each Beacon in Status Light)	1X = D2xB1X05 2X = D2xB1X10 5X = D2xB1LD2 Where X = Lens Colour, choose from: A = Amber, B = Blue, C = Clear, G = Green, M = Magenta, R = Red, Y = Yellow
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 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 Class Div
Product Option [o]	1 = Standard Wiring 2 = Independent Wiring T = Tropicalised 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 Status Light 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 D2xP1N1 Status Light should be secured to any flat surface using ten Ø7mm fixing holes in the feet of the Status Light. See figure 1a.

The D2xP1N2 Status Light should be secured to any flat surface using ten Ø7mm fixing holes in the plate. See figure 1c.

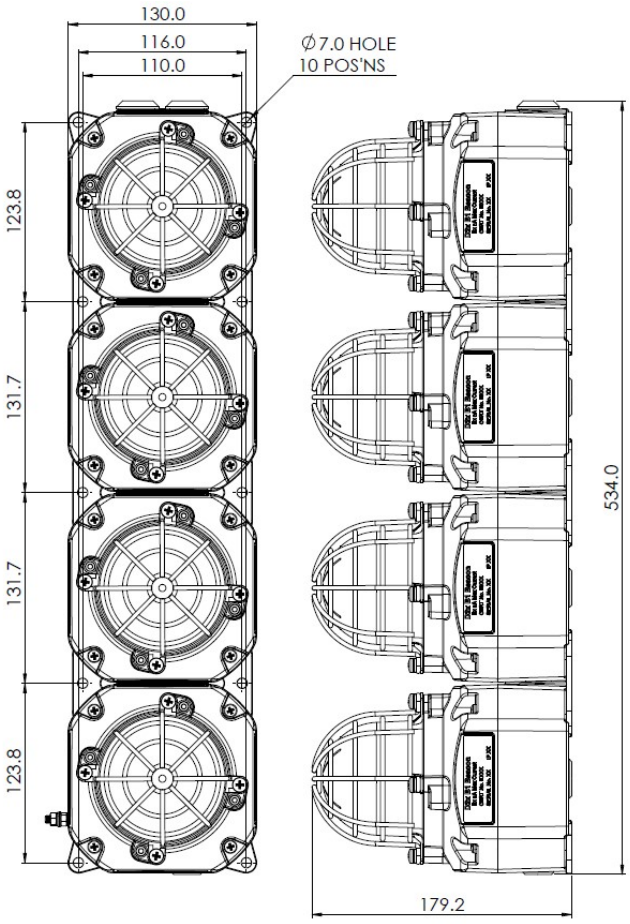


Fig. 1a: Fixing Location for P1 Status Light

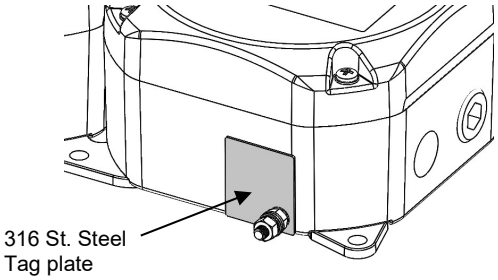


Fig. 1b: Equipment Tag Location

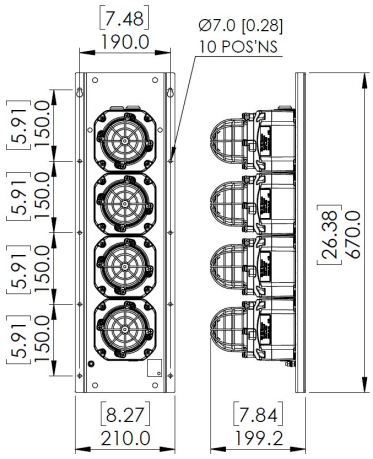


Fig. 1c: Fixing Location for plated Status Light

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 posi-pan head screws and withdraw the cover of the first unit (with external M5 earth stud). 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.

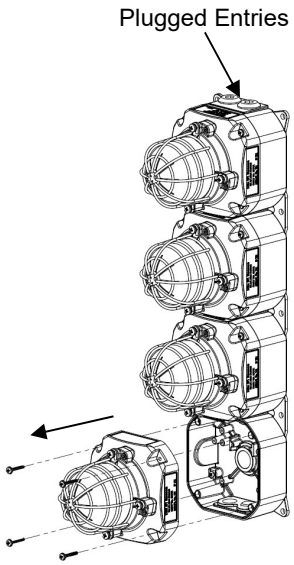


Fig. 2: Accessing the Enclosure, PCBA & Terminals

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. D2X P1 N1 1G 1A 1R 1B AC115:

Unit Type	D2xB1X05	D2xB1X05	D2xB1X05	D2xB1X05	**D2xP1 Total**
Voltage Range	115-120Vac 50/60Hz	115-120Vac 50/60Hz	115-120Vac 50/60Hz	115-120Vac 50/60Hz	**115-120Vac 50/60Hz**
Current	80mA	80mA	80mA	80mA	**320mA**
Max Current	80mA	80mA	80mA	80mA	**320mA**

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

Please see individual product instruction manual.

The D2xP1 Status Light 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 Status Light 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.

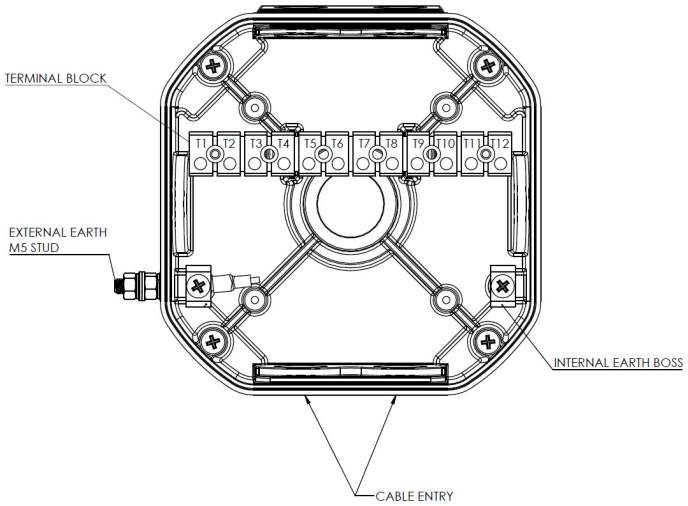


Fig. 3: Entry Unit (Beacon 1) Internal Detail & Terminal Block

13) Wiring

See table 2 for summary of wiring diagrams
See schematic document D215-06-140

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.

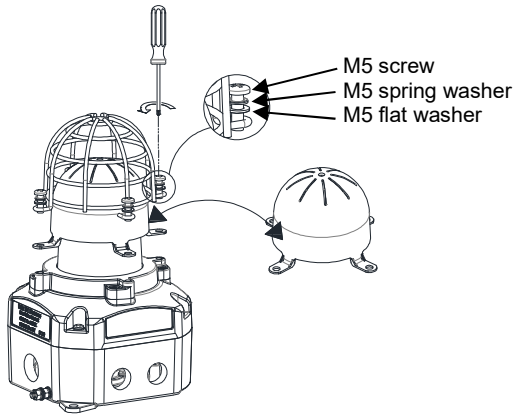


Fig. 6: Replacement of beacon lens cover

To reassemble optional duty label, see figure 7.

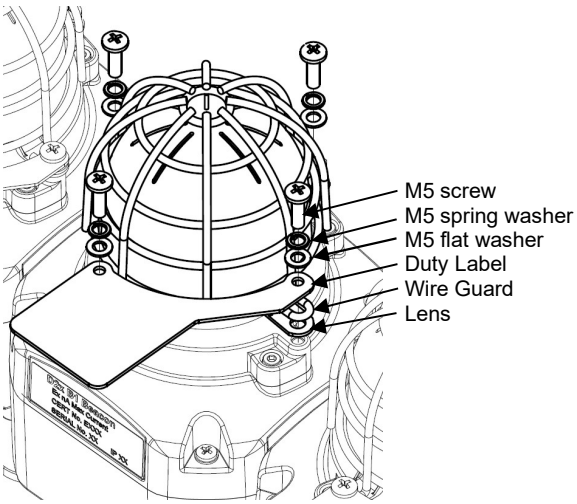


Fig. 7: Assembly of Duty Label

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	• Common negative connection to all signals	1
2	DC	Independent wiring	• Independent wiring to all signals	2
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 – Summary of Wiring Configurations

DC CONFIGURATIONS

E2S PART NO
D2x[P1][N1][XX][XX][XX][XX]
D2x[P1][N2][XX][XX][XX][XX]

DESCRIPTION
D2xP1 STACK - 4 BEACONS

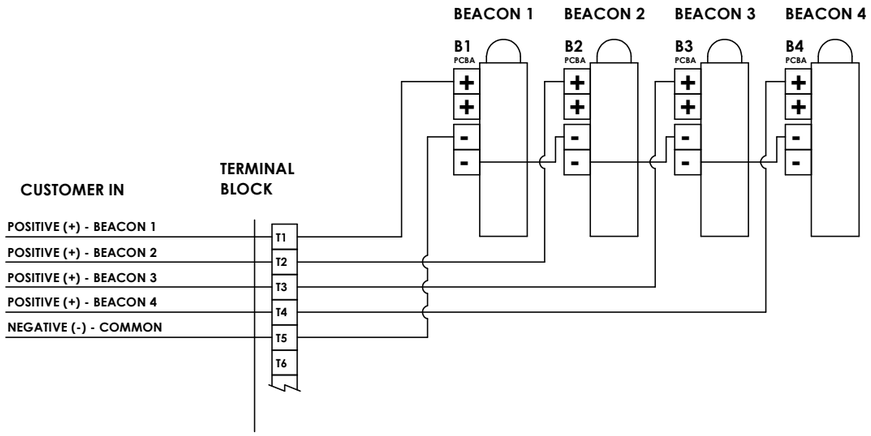
DATA REFERENCE
1-35-010

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		B1 NOW WIRED INTO TB DAH - 01/04/2020
3		CONFIG 1-2 ADDED. SH2 ADDED DAH - 20/04/2023

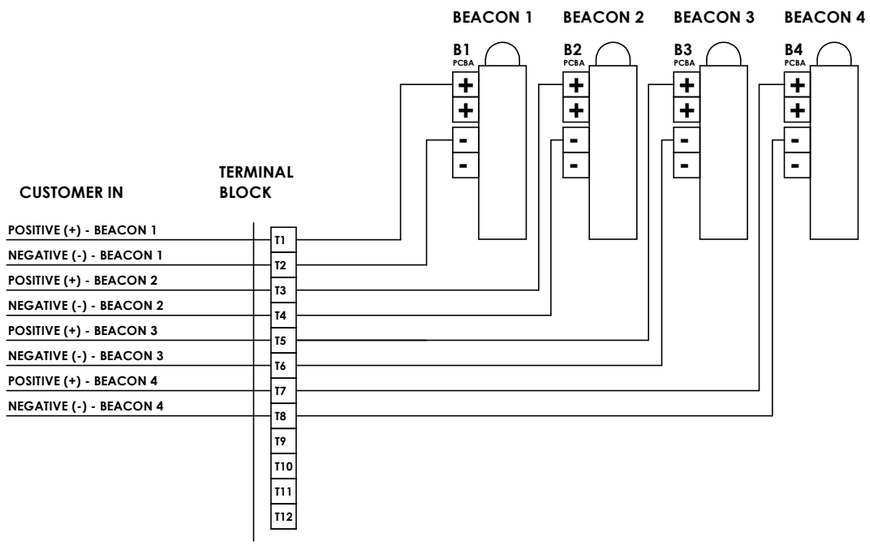
CONFIG. 1
(DEFAULT)

DC VOLTAGE SUPPLY
COMMON NEGATIVE CONNECTION TO ALL SIGNALS

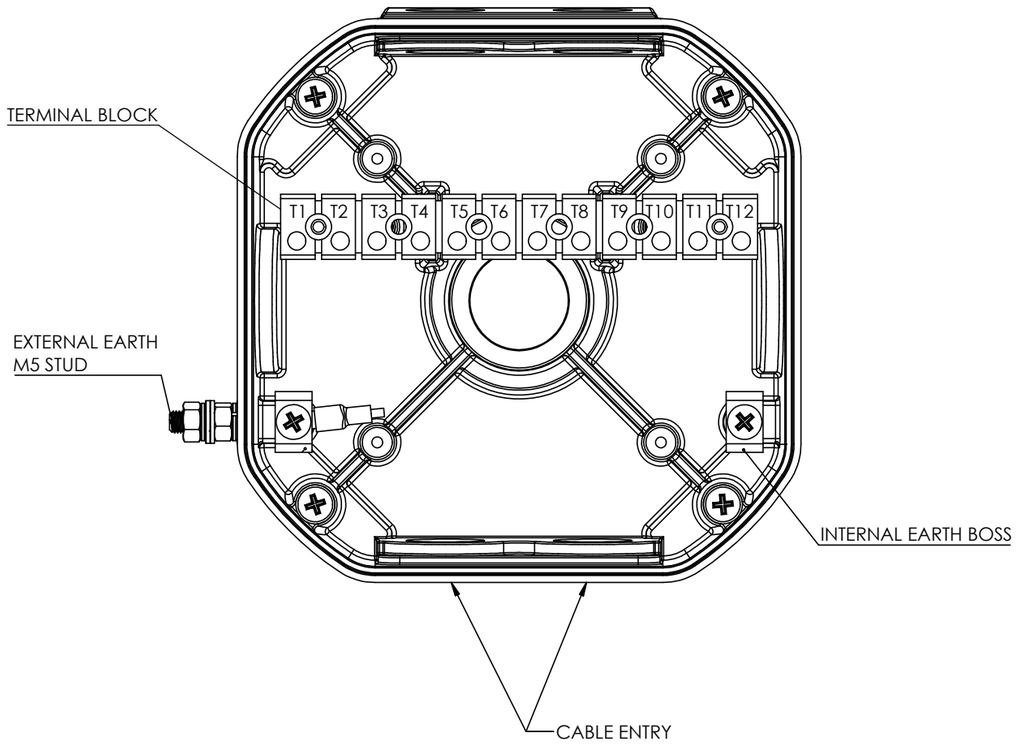


CONFIG. 2

DC VOLTAGE SUPPLY
INDEPENDENT CONNECTIONS TO ALL SIGNALS



ENTRY TERMINALS



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

STANDARDS

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

SURFACE FINISH: FINISH
WEIGHT (Kg):
MATERIAL:
ALTERNATIVE MATERIAL:

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: D2xP1 STACK - 4 BEACONS WIRING SCHEMATIC

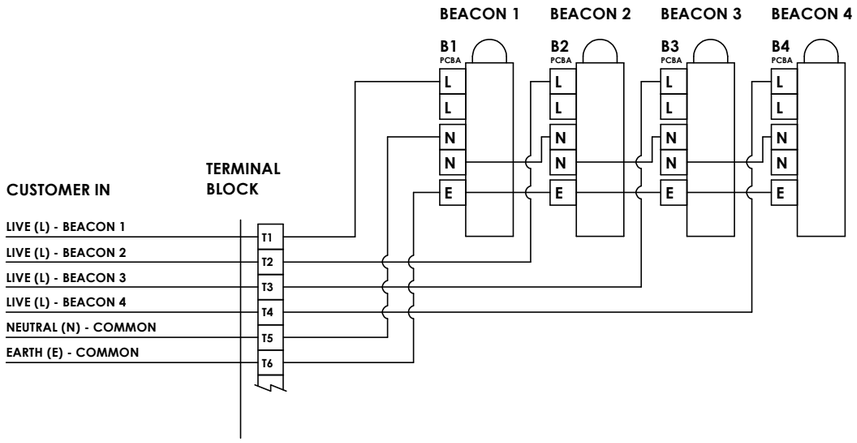
SCALE	SHEET	DRAWING NUMBER
NTS	1 OF 2	D215-06-140

AC CONFIGURATIONS

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

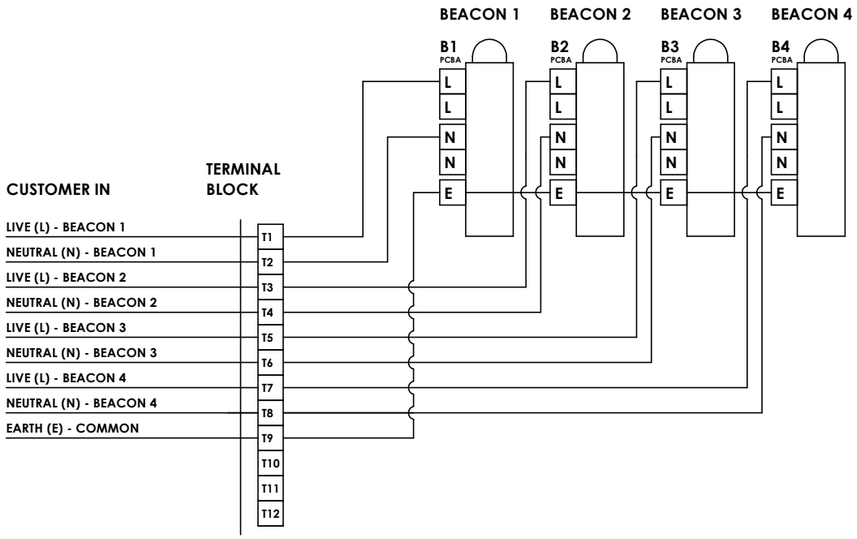
CONFIG. 1
(DEFAULT)

AC VOLTAGE SUPPLY
COMMON NEUTRAL CONNECTION TO ALL SIGNALS



CONFIG. 2

AC VOLTAGE SUPPLY
INDEPENDENT CONNECTIONS TO ALL SIGNALS



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

STANDARDS

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

SURFACE FINISH FINISH | WEIGHT (Kg)

MATERIAL

ALTERNATIVE MATERIAL

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 D2xP1 STACK - 4 BEACONS WIRING SCHEMATIC

SCALE	SHEET	DRAWING NUMBER
NTS	2 OF 2	D215-06-140