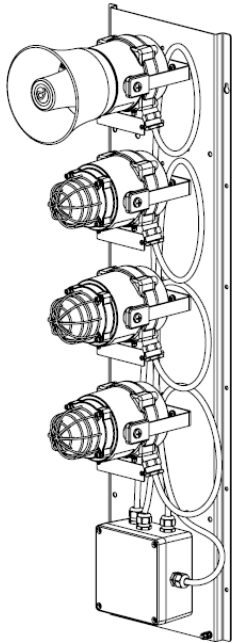
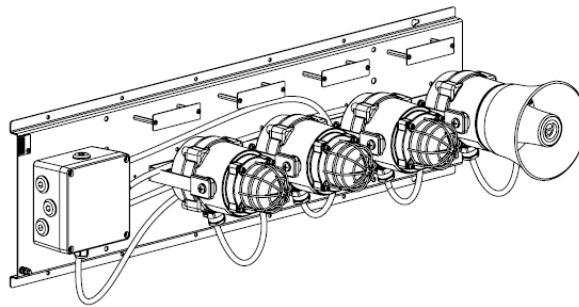


Vertical Configuration



Horizontal Configuration



### 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

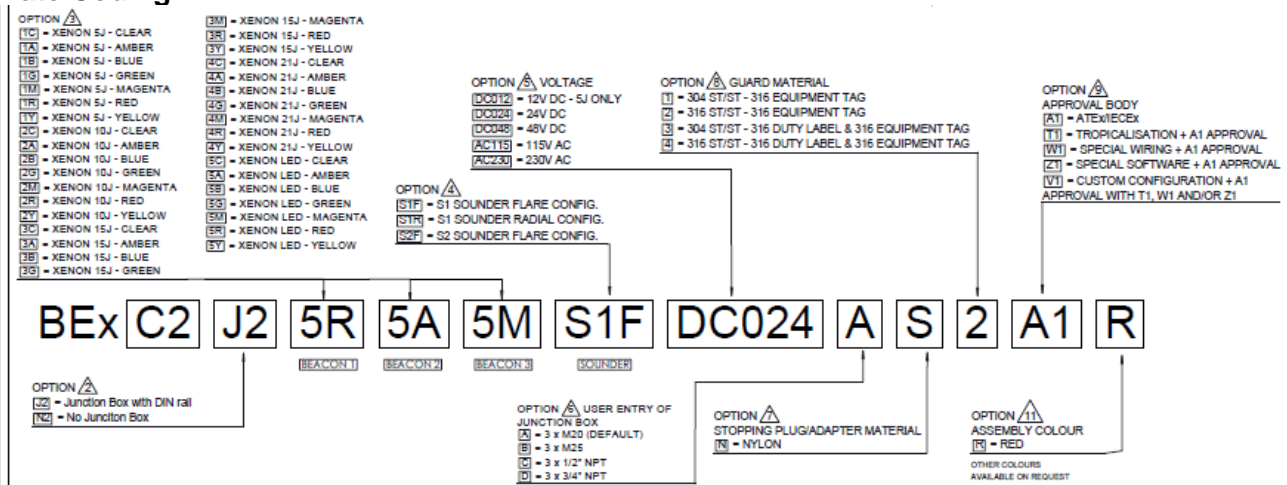
Please see individual product instruction manual. See Table 1 for Instruction Manual Document Number.

### 5) Special Conditions of Use

Part Code	Document Number
BExBGX05	D210-00-201-IS
BExBGX10	
BExBGX15	
BExBGX21	
BExBGLD2	D210-00-401-IS
BExS110D	D210-00-001-IS
BExS120D	D120-00-011-IS

Table 1: Product Instruction Manual Reference

### 6) Plate Coding



## 7) Location and Mounting

The location of the plate 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 BEx plate should be securely bolted to a flat surface using 7.0mm diameter bolt holes in the lips of the plate. See figure 1.

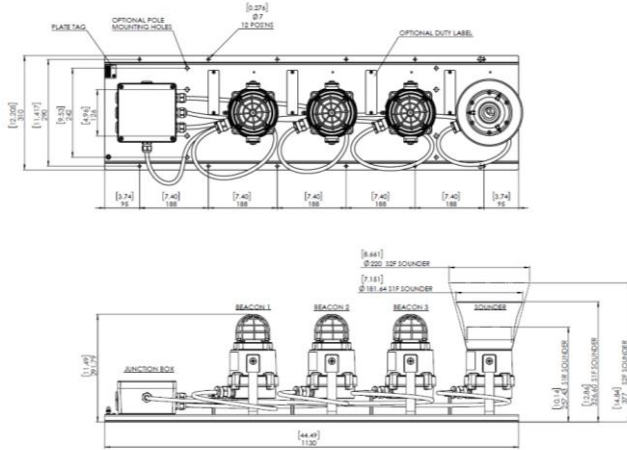


Fig. 1: Mounting Detail and Dimensions of BEx Stack

Alternatively, the unit can be pole mounted. For pole mounting detailed instructions, see drawing : D229-00-010

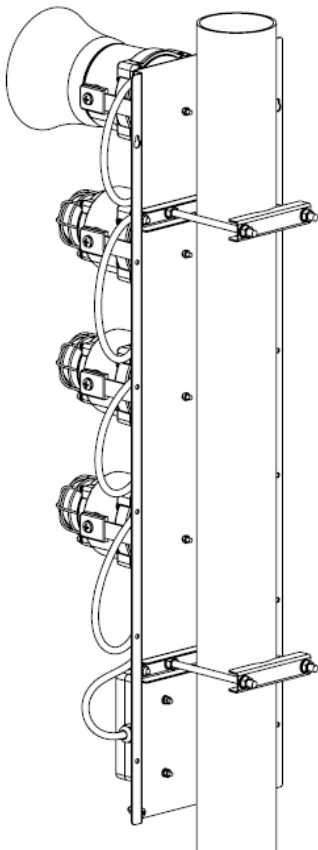


Fig. 2: Pole Mount for BEx Stack

## 8) Access to the Flameproof Enclosure

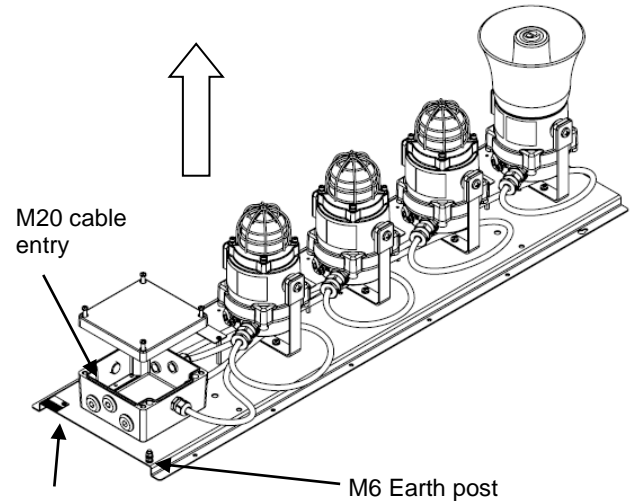


Warning – High voltage may be present, risk of electric shock. DO NOT open when energised, disconnect power before opening.



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 beacon it is necessary to open the junction box. To access the chamber, unscrew the M6 screws on the lid and remove.



Tag Plate

Fig. 3: Accessing the Explosion proof Enclosure

On completion of the installation, replace the lid and tighten all screws firmly.

## 9) Power Supply Selection

Please see individual product instruction manual

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

Please see individual product instruction manual

The BEx Plate Range can be supplied with the following types of adapters:

- 3 x 1/2" NPT
- 3 x 3/4" NPT
- 3 x M25 x 1.5mm

It is important to note that stopping plugs cannot be fitted onto adapters, only directly onto the M20 entries.

## 11) Earthing

The plate is provided with an M6 earth post. Earthing connections should be made to the M6 earth stud, using a ring crimp terminal to secure the earth conductor to the earth stud. The units are provided with internal and external earth terminals which are both located on the terminal chamber section of the unit.

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

## 12) Cable Connections

Electrical connections are to be made into the terminal blocks on the PCBA and in the flameproof enclosure located in the first unit. See section 7 of this manual for access to the flameproof enclosure.

Wires having a cross sectional area between 0.5 mm<sup>2</sup> to 2.5mm<sup>2</sup> can be connected to each terminal way. If an input and output wire is required the 2-off Live/Neutral or +/- terminals can be used. If fitting 2-off wires to one terminal way the sum of the 2-off wires must be a maximum cross sectional area of 2.5mm<sup>2</sup>. 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 2.5mm<sup>2</sup>.

10J/15J/21J AC Entries and Terminal Block Location

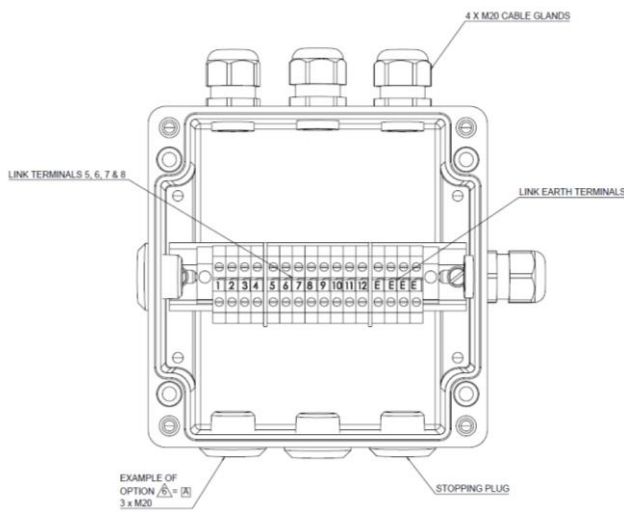


Fig. 4: Junction Box Entry and Terminal Block Location

### 13) AC Wiring

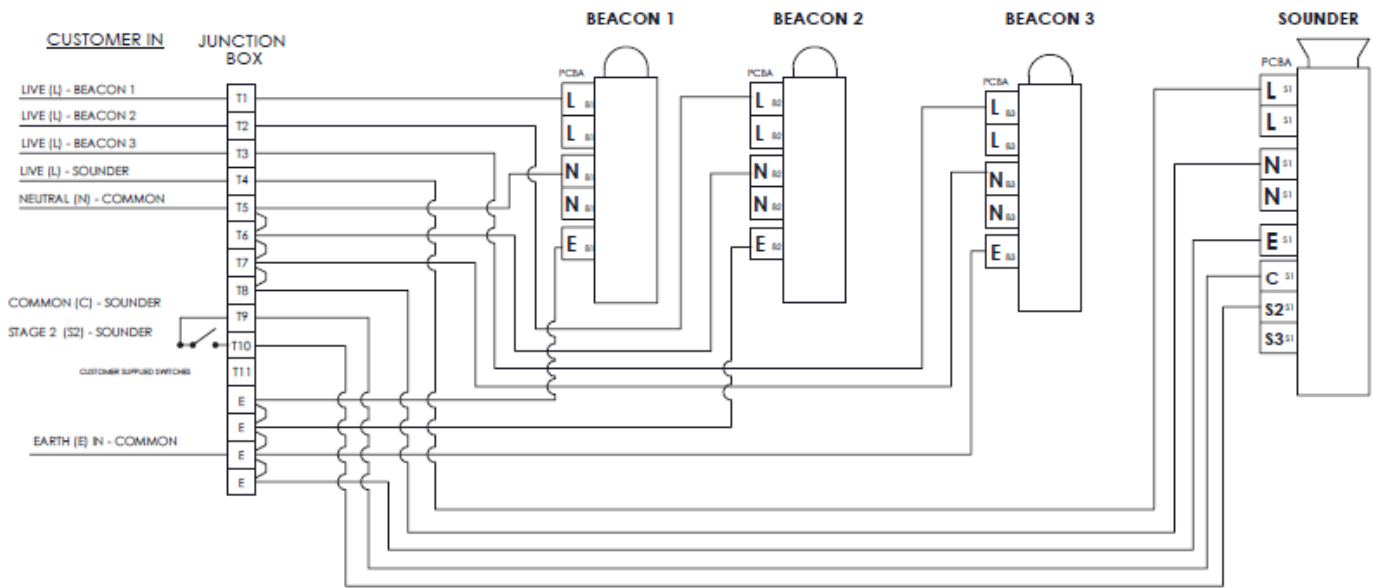


Fig. 5a: BExS1/S2 Combined Stack AC Simplified Block Diagram

### 14) DC Wiring

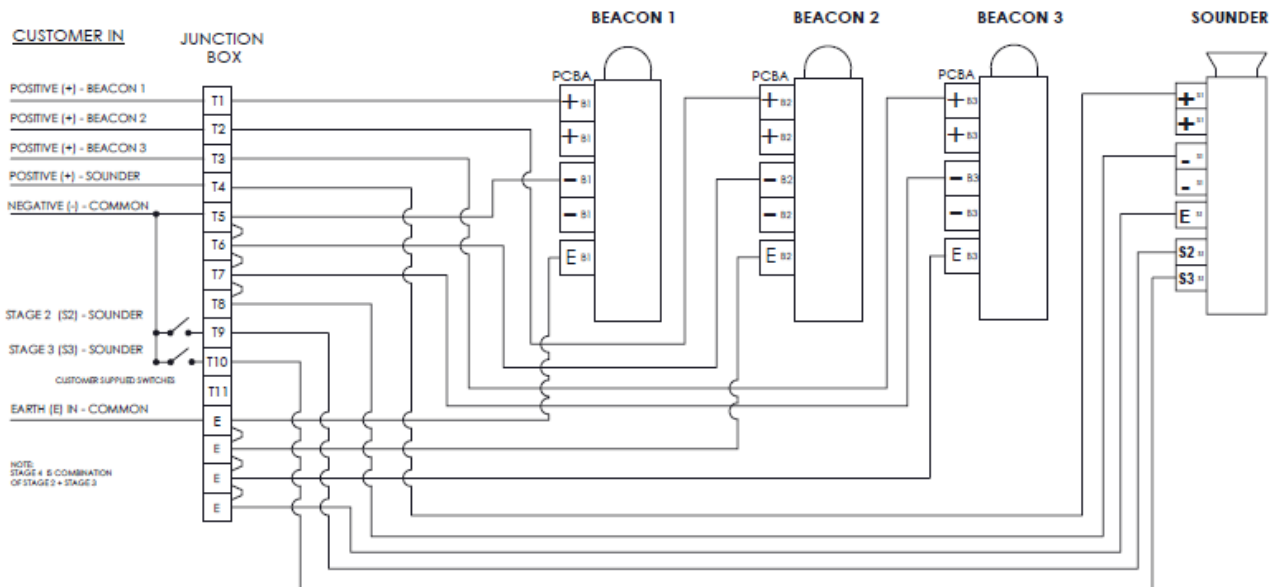


Fig. 6: BEx Combined Stack DC Simplified Block Diagram

Note:

For units with product codes containing 'W1' or 'V1', please see special wiring schematic supplied with the unit documentation.

## 15) Interchangeable & Spare Parts

The beacon lenses are interchangeable, contact European Safety Systems Ltd for a replacement lens available in various colours.

The guard is an integral part of the protection and must be reassembled exactly the same way as it was disassembled.

To change the lens, unscrew and remove the M5 socket head screws, M5 spring & flat washers.

Remove the guard.

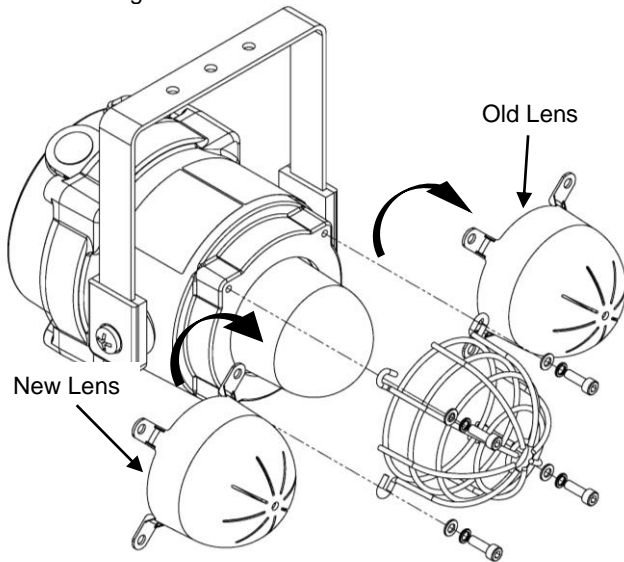


Fig. 7: Remove and change Lens

Fit the guard back on to the lens and moulding, align the holes of the guard, lens and casting. To reattach the lens, the fixings MUST be in the order shown in figure 6.

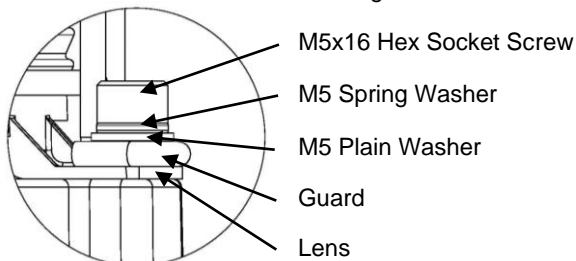


Fig. 8: Lens & Guard fixings order

## 16) Beacon Orientation

The Plate orientation can be changed from Vertical to Horizontal. This can be specified on the works order or can be carried out by the customer. The fixings for the plate must be reassembled in the exact same way it was disassembled.

Loosen M6 fixings and carefully remove the beacon from the plate.

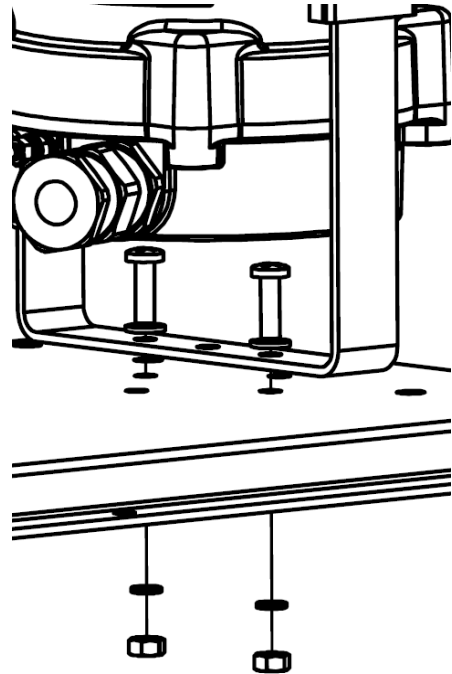


Fig. 9: Removal of beacon from plate

Rotate the beacon 90 degrees and align the fixing holes with the corresponding holes on the plate.

Reassemble the fixings in the new configuration and tighten the M6 Screws to the plate.

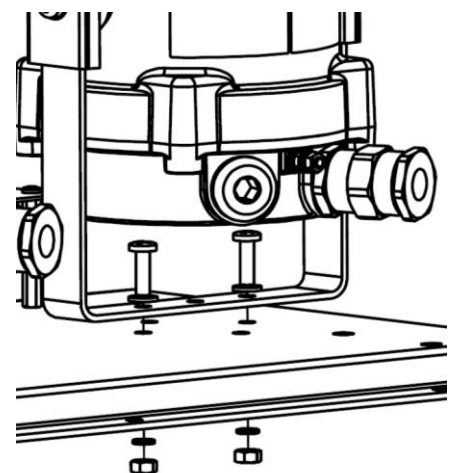


Fig. 10 Fixing Beacon back to the Plate

Duty Labels can be placed to suit either the vertical mounting position (default) or a horizontal mounting position. See figure 9 for configuration details.

Position the duty label assembly in the desired position (fig. 9). Place spring washers over the spacer threads on the underside of the plate and tighten M4 hex nuts fully.

## 17) Maintenance, Overhaul and Repair

Please see individual product instruction manual

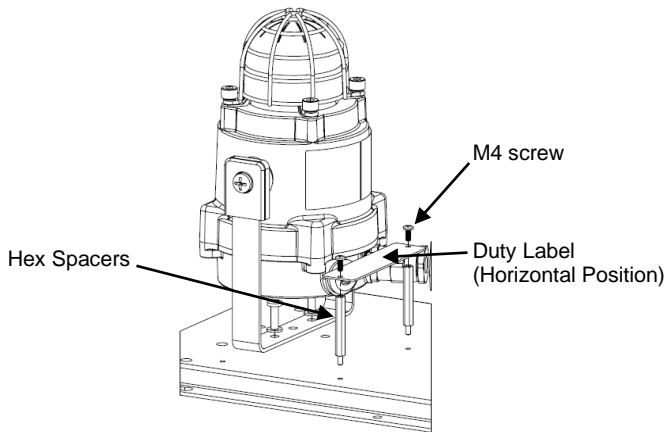


Fig. 11: Duty Label & Beacon Vertical Configuration

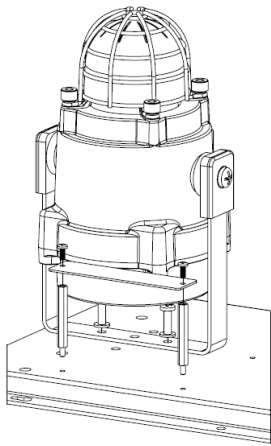


Fig. 12: Duty Label & Beacon Horizontal Configuration

To move the duty labels, use a spanner or equivalent tool to carefully remove the hex nuts and spring washers from the positions shown on the rear of the plate. Care should be taken not to drop them, especially if working from height.

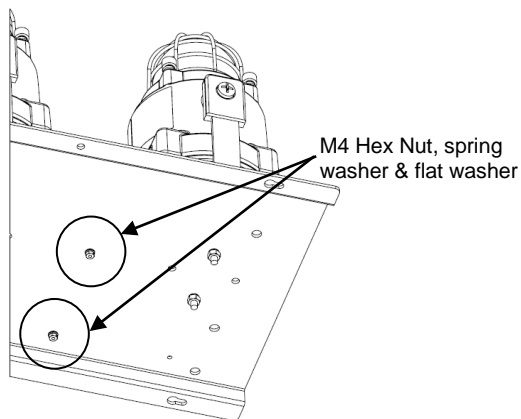


Fig. 13: Plate underside showing duty label fixings