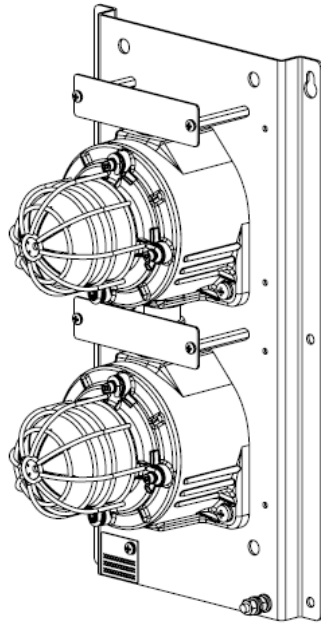
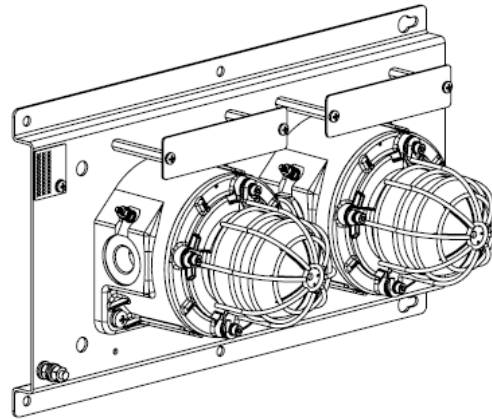


### Vertical Configuration



### 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.

### 6) Plate Coding

### 4) Installation Requirements

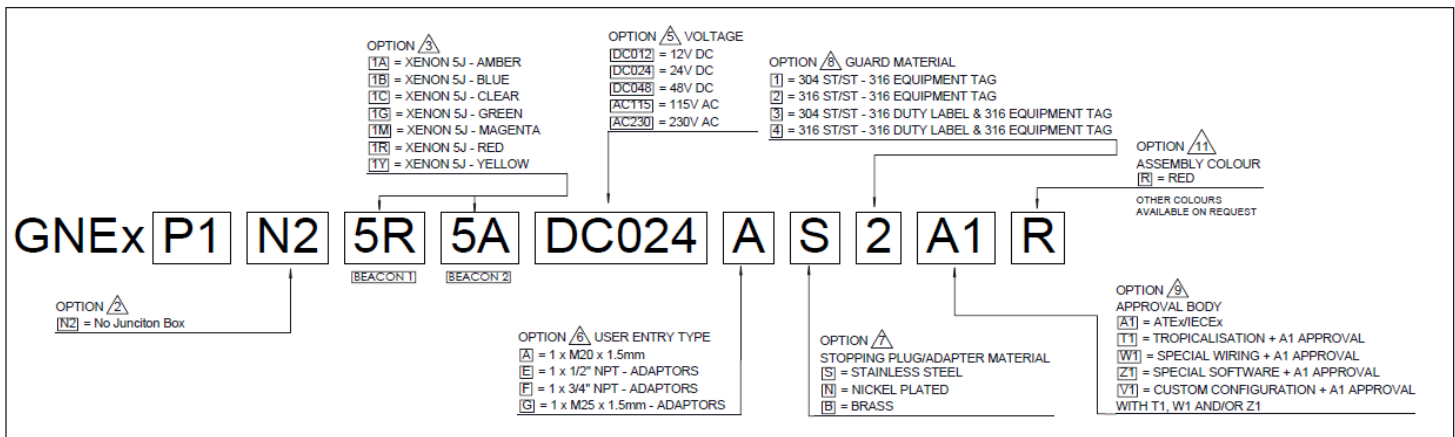
Please see individual product instruction manual. See Table 1 for Instruction Manual Document Number.

### 5) Special Conditions of Use

Please see individual product instruction manual

Part Code	Document Number
GNExB1X05	D155-00-201-IS

Table 1: Product Instruction Manual Reference



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

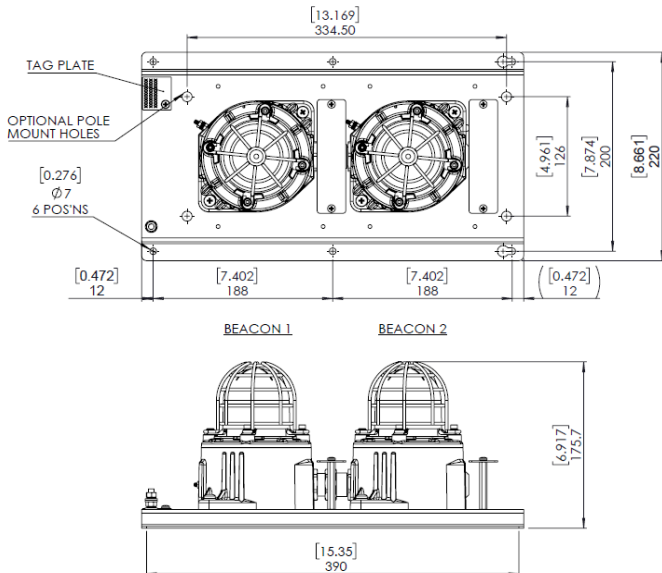


Fig. 1: Mounting Detail and Dimensions for GNEx Stack

Alternatively, the unit can be pole mounted. For pole mounting detailed instructions, see drawing : D208-00-010

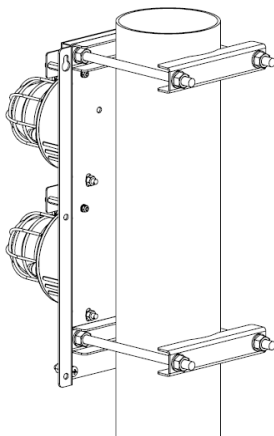


Fig. 2: Mounting Detail for Pole Mount

## 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 remove the flameproof cover to gain access to the flameproof chamber. To access the Ex d chamber, loosen the M4 grub screw on the beacon cover. Open the enclosure by turning the beacon cover counter clockwise and remove the cover, taking extreme care not to damage the flameproof threads in the process (See figure 2).

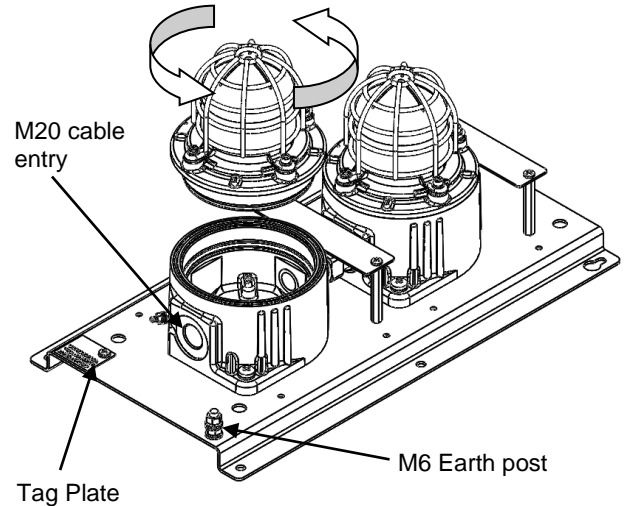


Fig. 3: Accessing the Explosion proof Enclosure

On completion of the installation, the flameproof threaded joint should be inspected to ensure that they are clean and that they have not been damaged during installation. Repair of the flame path / flameproof joints is not permitted. Also check that the 'O' ring seal is in place. When fitting the flameproof cover ensure the thread is engaged correctly. Fully tighten the cover all the way, ensure no gap is visible between the cover and base of the beacon enclosure. Tighten the M4 grub screw.

## 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

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 block and PCBA located in the first beacon. See section 8 of this manual for access to the flameproof enclosure. Also, see individual manuals for detail on wiring into PCBA terminals.

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>.

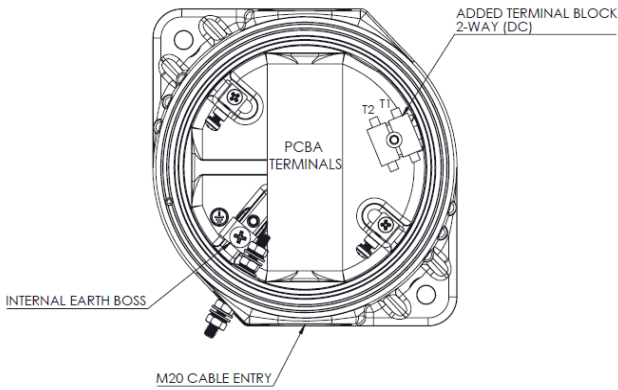


Fig. 4: DC Entry Unit (Beacon 1) Internal Detail & Terminal Block

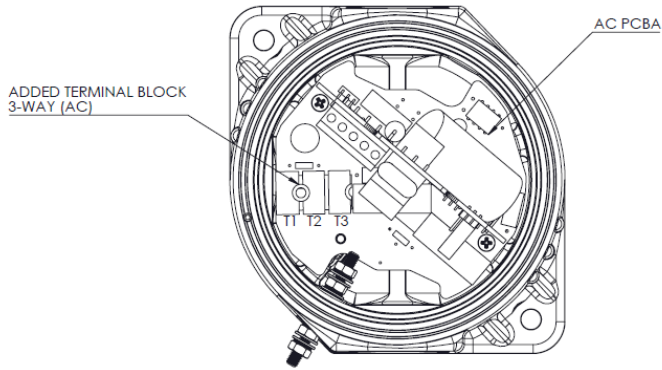


Fig. 5: AC Entry Unit (Beacon 1) Internal Detail & Terminal Block

### 13) AC Wiring

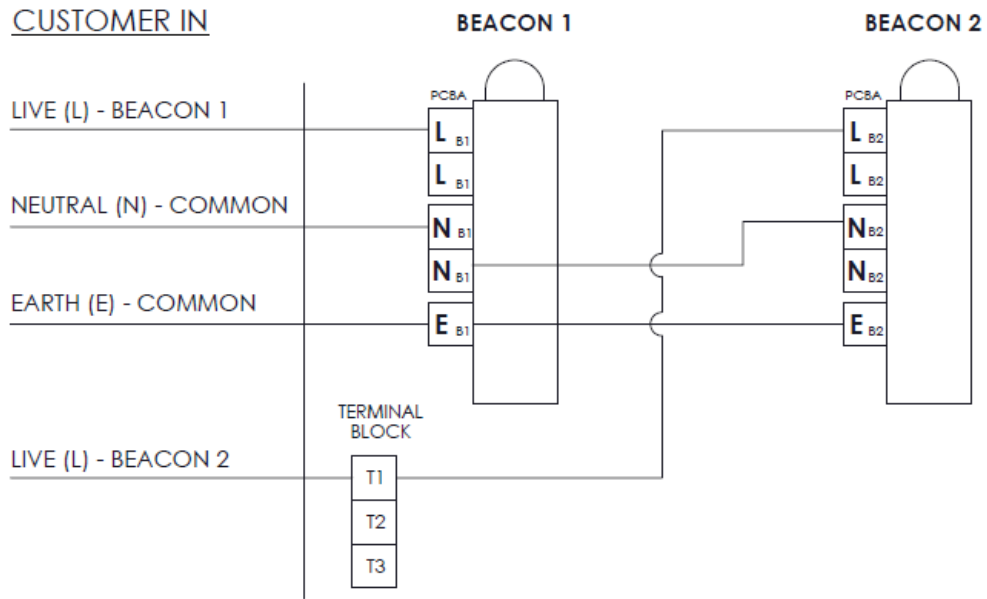


Fig. 6a: GNEXP1 Beacon Stack AC Simplified Block Diagram

### 14) DC Wiring

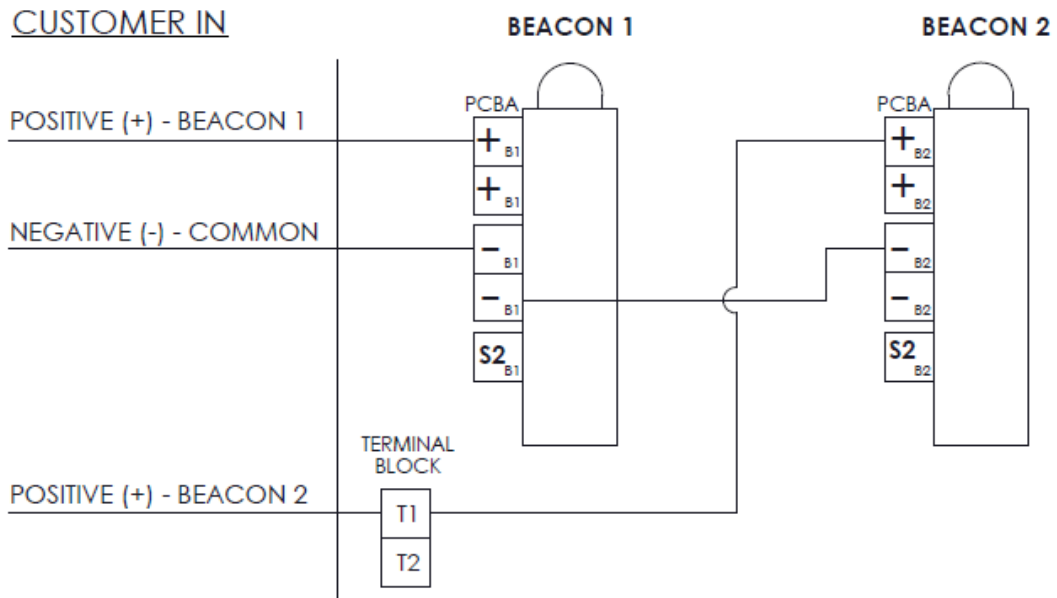


Fig. 6b: GNEXP1 Beacon Stack DC Simplified Block Diagram

Note:

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

## 15) Interchangeable & Spare Parts



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

The beacon lens 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 the M4 socket head screws and remove the M4 screws, M4 spring & flat washers.

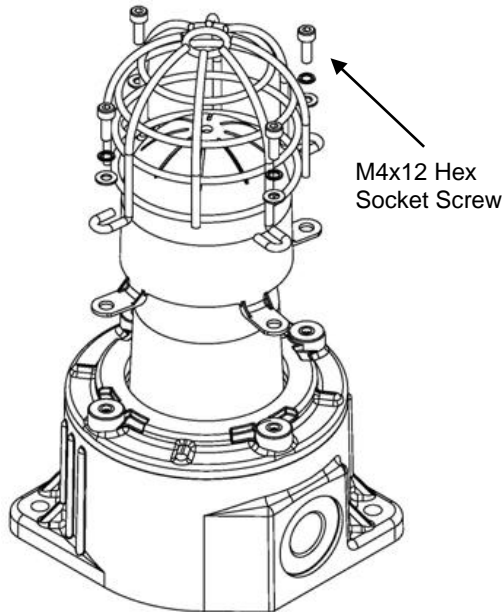


Fig 7. Removal of Lens

Remove the guard and replace the old lens with the new lens.

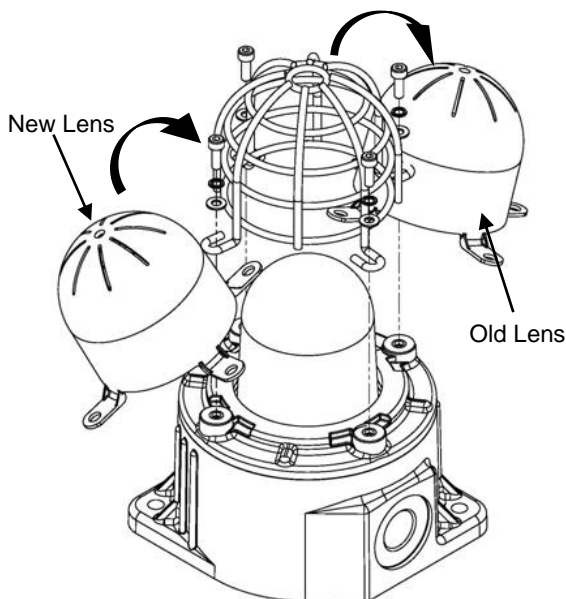


Fig 8. Changing of Lens

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

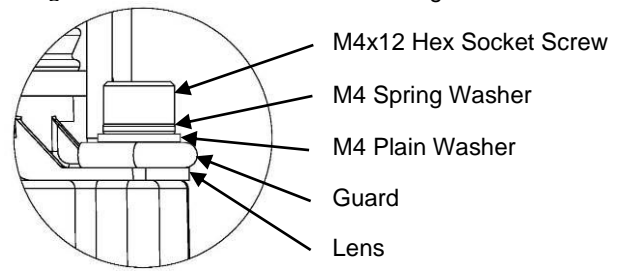


Fig 9. Lens & Guard fixings order

Duty Labels can be placed to suit either the vertical mounting position (default) or a horizontal mounting position. See figure 10 & 11 for configuration details.

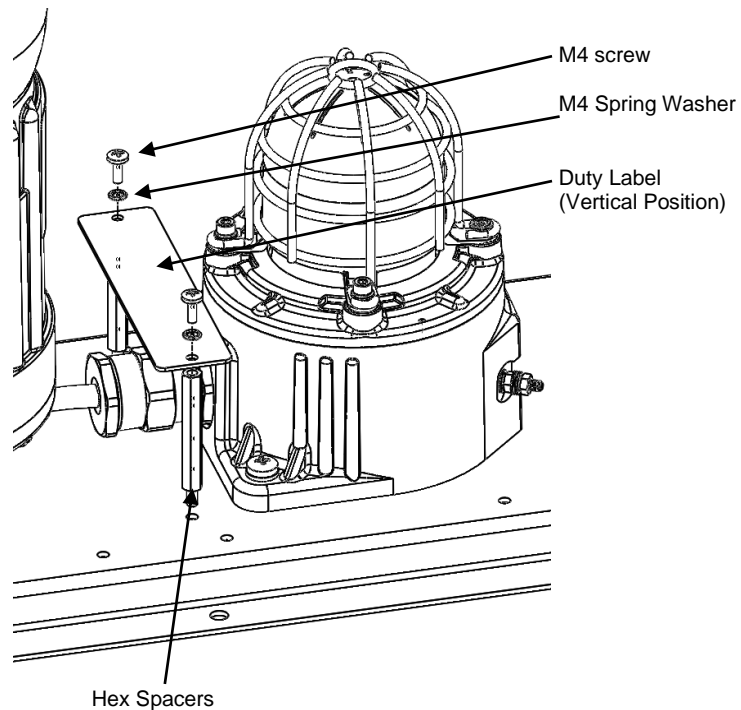


Fig 10: Duty Label & Beacon Vertical Configuration

## 16) Maintenance, Overhaul and Repair

Please see individual product instruction manual

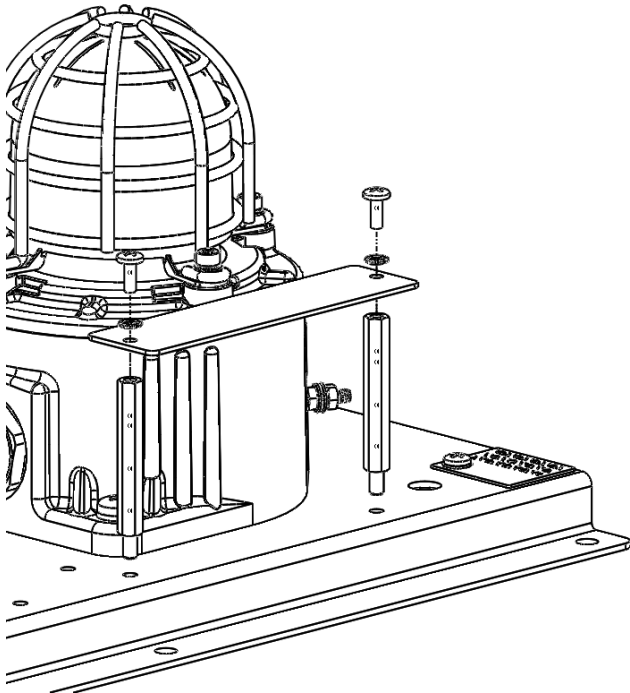


Fig. 11: Duty Label & Beacon Horizontal Configuration

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.

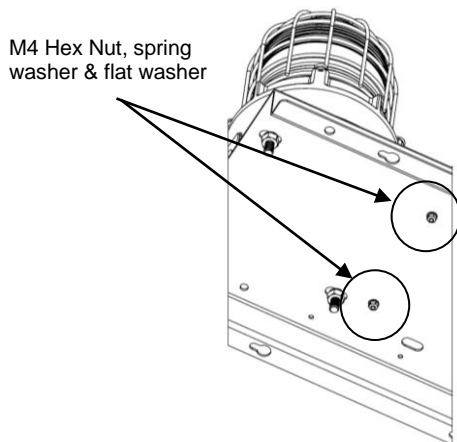


Fig. 12: Plate underside showing duty label fixings

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.