MOFLASH
SIGNALLING

INSTALLATION & TECHNICAL INFORMATION

PLEASE READ PRIOR TO INSTALLATION

For Translations and Documentation scan above.

LED-R400/401
(LED Rotating Beacons)

VISUAL SIGNALLING DEVICE

S00652 Issue 1

APPROVALS AND CONFORMITIES

Installation

- Installation must be carried out in accordance with the latest codes of practice by a qualified electrician.
- Check that the power supply is correct for the voltage rating of the Beacon to be installed.
- Ensure that the power supply is disconnected prior to installation or maintenance to avoid electrical shock.
- Decide on desired wiring option. Pre-wired Terminal Block is supplied in the base of the unit, or an M20 knock-out is available on the side.
- If Terminal Block in base is not used, then connecting wires will need removing to allow for internal connection of wiring.
- The back box should be mounted to a wall (with bracket), bulkhead or surface formed of suitable material using the supplied gasket with 3 x M6 Hex set screws (not supplied).
- To maintain the IP65 weatherproof rating, the Beacon must be mounted vertically with the Lens above the base.
- Avoid mounting the Beacon where it could subjected to excessive vibration levels.
- Environmental exposure conditions during installation should be dry, not moist or wet.
- It is not necessary to earth the alarm circuitry, but earth tags should be used if earth continuity of conduit or cable sheathing is to be maintained.
- If using the M20 knock-out option a suitably rated (Minimum IP65) cable gland (not supplied) must be used to maintain IP rating of the product.
- In all connection options, a Max termination size of 2.5mm² cable must be used.

Rotation Speed Selection

The LED-R400/401 units will be pre-set to 120 RPM as standard when leaving the factory. If it is required to change the speed, this can be done by briefly connecting the Signal terminal to the 0v (for R401) or Neutral (for R400). This will then save the rotation speed into the unit and it will stay at this rotation speed when powered.

Alternatively, a momentary switch can be installed (not supplied) between the Signal terminal and 0v/N lines to allow for changes of rotation speed once unit is installed. **(Figure 3)**

Connections to Pre-Wired Terminal Block

24v DC & Diode Polarised (Figure 1)
- Confirm the correct voltage and polarity is to be applied for the unit.
- +24v DC applied to the "+" terminal, 0v applied to the "0v" terminal.
- 0v or Switch applied to Sig. Terminal for setting speed as described above.

85-280v AC/DC (Figure 2)
- Confirm the correct voltage and polarity is to be applied for the unit.
- Live applied to the "L" terminal, Neutral applied to the "N" terminal.
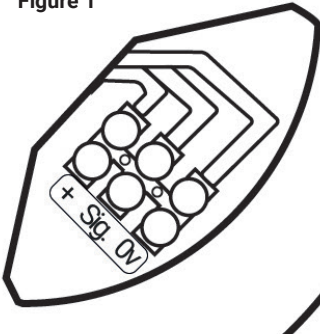- Neutral switch applied to Sig. Terminal for setting speed as described above.

Figure 1 **Figure 2** **Figure 3**

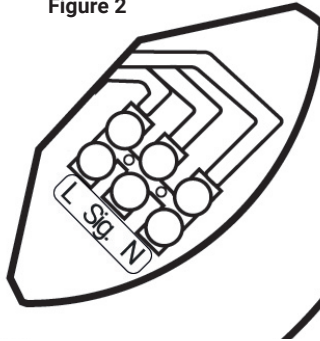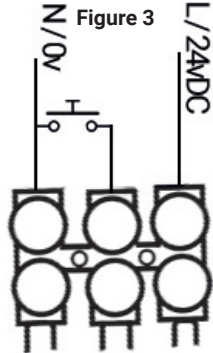## Connections when using M20 cable entry see below:

If M20 knock-out is preferred method then three wires in the barrier strip of the base need to be unscrewed and freed from the barrier strip. Unscrew 3 x No:4 screws that retain the base plate & carefully remove, threading the wires through the aperture. Unscrew the same three wires from the internal Terminal Block on the PCB (Figure 5). Carefully drill out the M20 entry & using the appropriate cable gland, insert power cable into unit connecting to the internal Terminal Block. Screw base plate back into position.

24v DC ONLY Internal Wiring (Separate Barrier Strip required)
- Confirm the correct voltage and polarity is to be applied for the unit.
- +24v DC applied to the "Red" wire, 0v applied to the "Black" wire.
- 0v or Switch applied to Yellow Wire for setting speed as above.

24v DC Diode Polarised Internal Wiring (Figure 4 & 5)
- Confirm the correct voltage and polarity is to be applied for the unit.
- +24v DC applied to the "Live" terminal, 0v applied to the "Neutral" terminal.
- 0v or Switch applied to Sig. Terminal for setting speed as above.

85-280v AC/DC Internal Wiring (Figure 4 & 5)
- Confirm the correct voltage and polarity is to be applied for the unit.
- Live applied to the "Live" terminal, Neutral applied to the "Neutral" terminal.
- Neutral or Switch applied to Sig. Terminal for setting speed as above.
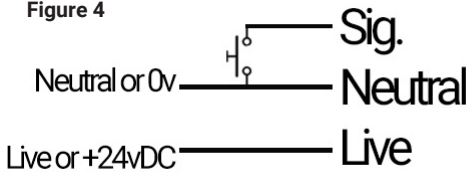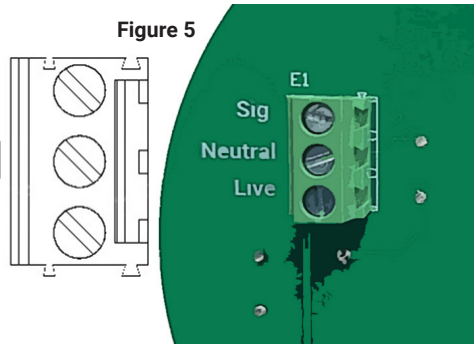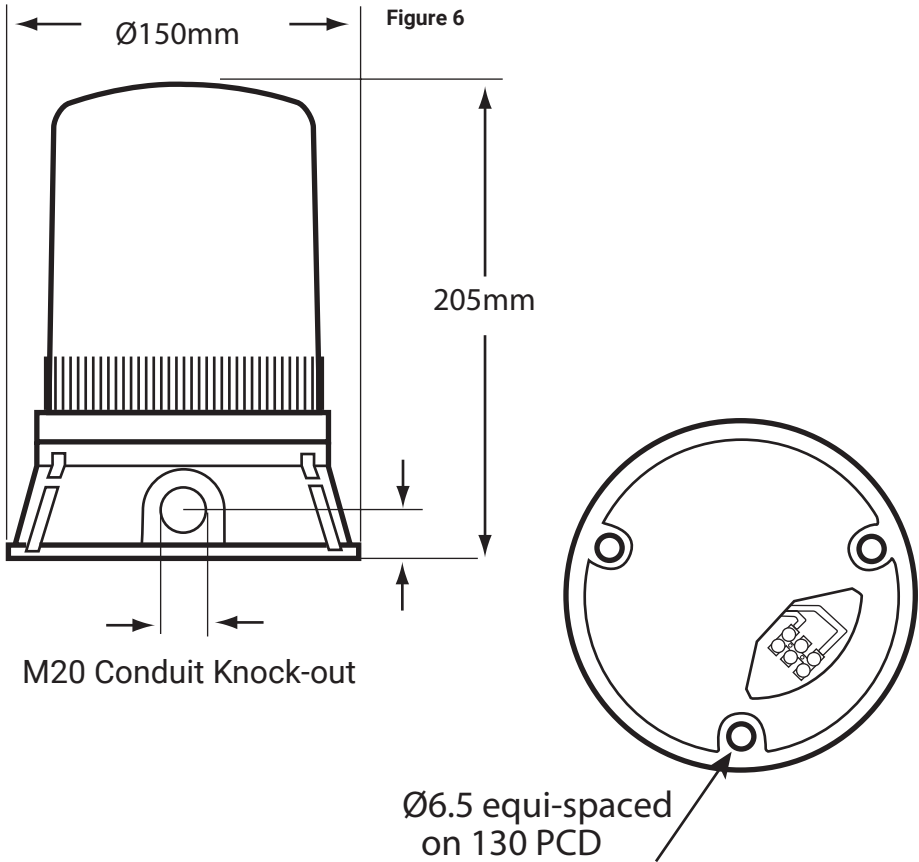
Figure 5

Figure 4

Neutral or 0v ——— Sig.

Neutral

Live or +24vDC ——— Live

Features include:

- Termination: Up to 2.5mm² cable
- Rotation Speed: 80 RPM or 120 RPM
- Operating Temperature: -25°C to +55°C
- Enclosure Material: UV Stable ABS Plastic Base
- Lens Material: UV Stable Polycarbonate Lens
- Ingress Protection: Weatherproof to IP65
- AC Supply: 50/60Hz

Dimensional Drawing

Ø150mm

Figure 6

205mm

M20 Conduit Knock-out

Ø6.5 equi-spaced
on 130 PCD