

### SAFETY FIRST

Ensure that the site is surveyed for buried services and that the electrical supply is isolated before commencing work.

All electrical work must be carried out in accordance with the latest IET wiring regulations (BS7671) by suitably qualified engineers.

Ensure the voltage of the LumiFlex Base is compatible with the mains supply input. 24 volt versions will require the addition of a transformer to reduce mains voltage to the appropriate level.

### TOOLS REQUIRED

Security Allen Key (supplied)  
8mm Allen key  
Electricians tool kit  
C20 grade concrete or equivalent.

Cable entry options - maximum outside cable diameter  
9mm - 14mm (fitted) or  
13mm - 18mm (supplied loose in base)

### CONSIDERATION BEFORE AND AFTER INSTALLATION

It is essential the LumiFlex Base is installed in sufficient mass of concrete to prevent uplift from its foundation and to prevent subsequent damage to the product, as with any other base light system.

The LumiFlex Base should be installed into an excavated hole measuring 600mm x 600mm x 166 ±5mm deep, in order that sufficient ballast of concrete is encased around the base light to hold it firmly in its foundation to withstand bollard top impact. In narrow kerb sided island sites this may not be

achievable, however, it is critical to ensure the LumiFlex Base is fully surrounded with sufficient concrete backfill to ensure a stable, secure foundation.

IP68 glands are provided to seal cables where they enter the enclosure. One of the glands is "plugged" with a stainless steel shouldered bolt, which can be securely tightened and left in situ if only one cable entry is required. All seals should be kept clean and free of debris to ensure IP integrity.

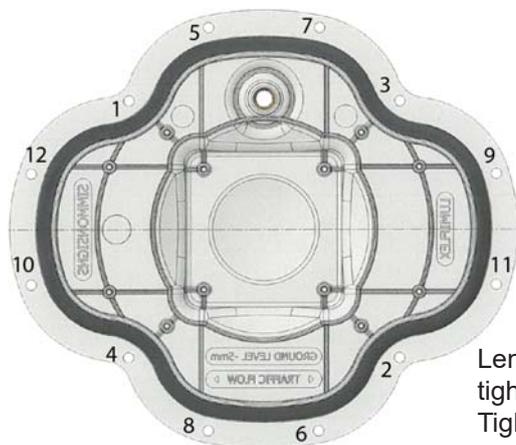
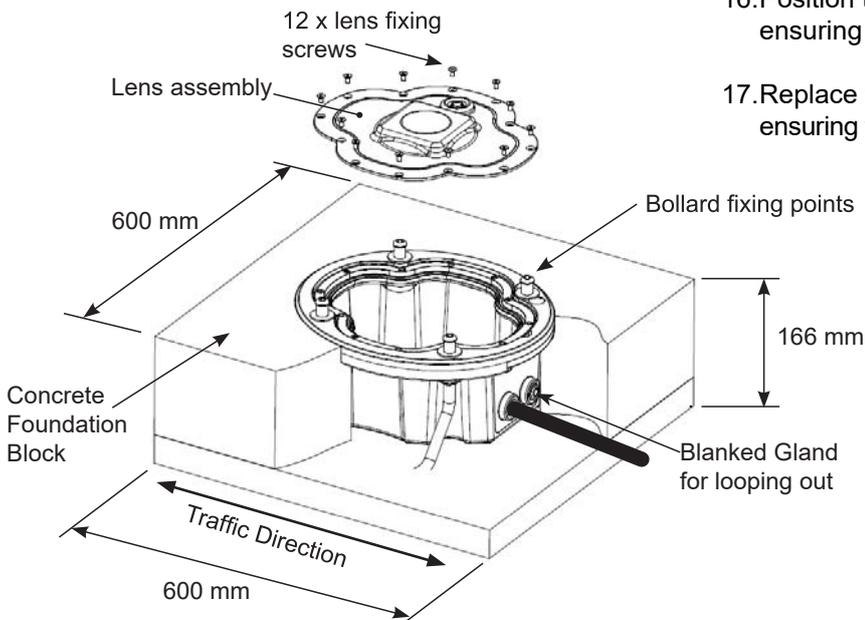
### INSTALLATION

1. Excavate a hole 600 x 600 x 166mm deep.
2. Remove the LumiFlex Base lens assembly by unscrewing the 4 security retaining screws. A suitable security Allen key is supplied and can be found attached to the exterior of the base. Take care not to remove the protective film protecting the lens surface. Place the lens assembly to one side for later use.
3. Recover the gland pack/screw pack from inside the base and retain safely. The 4 screws removed in step 2 can be added to the pack for safe keeping.
4. Check that the correct insert is fitted to the gland which suits the incoming cable. (A 9mm – 14mm gland insert is fitted as standard. For larger cables of 13mm - 18mm, change to the alternative gland insert which is provided in the gland pack.)
5. If the cable is to be looped out of the base, the blanking bolt from the second gland can be removed.
6. Place the base in the excavated hole taking note of the traffic direction. *Please note that the base may be rotated 180° to suit the incoming cable.*
7. Thread the supply cable through the cable gland and terminate using a suitable fused cut-out. The cut-out can be fixed to the 12mm wooden fuse board provided in the base.  
**WARNING: USING SCREWS THAT ARE TOO LONG WILL PUNCTURE THE POLYMER BASE.**

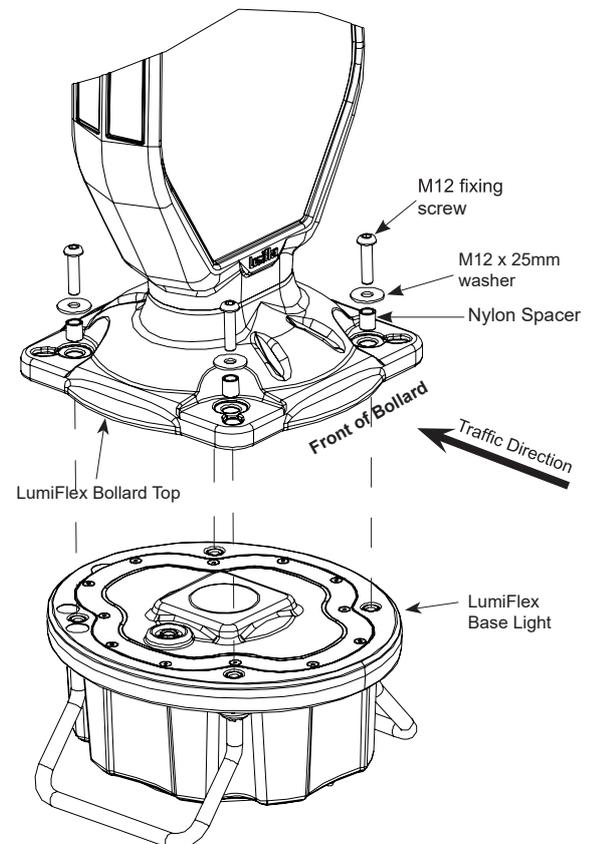
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### INSTALLATION

8. Tighten the glands securely onto a smooth clean section of the incoming and outgoing cable (if looping). This is an essential part of the installation will help prevent water ingress.
9. Wire the gear tray tail into the fused terminals (Live, Neutral, Earth) of the cut-out.
10. Take the lens assembly and connect to the gear tray tail.
11. Replace the lens on the base and fix using the 12 security screws recovered from the gland pack. Insert all 12 screws loosely and then fully tighten to a torque of 4 Nm in a diagonal sequence as shown below. An Allen key is provided. It is important that all 12 screws are securely tightened in order to prevent any ingress.
12. Adjust the position of the base in the hole and check the traffic alignment and ground level marking. The finished ground level should be 5mm below the top face of the base housing. *Ensure that the main lens seal is free from debris.*
13. Backfill the hole with concrete checking the alignment and level of the base as this is done and float finish the final concrete level.
14. Wait for the concrete to set then remove the protective film from the base lens.
15. The Lumiflex bollard can now be installed by removing the four dome head socket screws, washers and spacers.
16. Position the Lumiflex bollard over the 4 fixing points ensuring the correct orientation.
17. Replace the four dome head socket screws, ensuring that washers and spacers are used as shown.



Lens Fixing screw tightening sequence. Tighten to 4 Nm.



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