

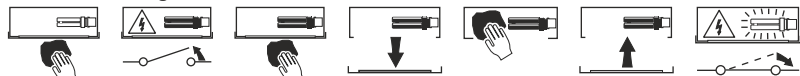
Safe Operation

1. To prevent damage to driver, do not mix with conventional magnetic ballasts on the same electrical circuit.
2. Check the rating label for voltage and frequency before connecting this luminaire to the electrical supply.
3. Ensure that the mains supply is switched off when working on this luminaire.
4. Where use in more onerous situations is required, e.g. Where ambient temperatures are outside the normal temperature range, then consult our Sales Office

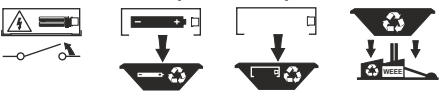
Servicing and Lamp Disposal

1. At commissioning and handing over of installation ensure that a copy of these instructions is presented to the authority responsible for the operation and maintenance of the luminaires.
2. Servicing, e.g. cleaning, must only be carried out after the electricity supply has been switched off. It must not be assumed that unlit luminaires are switched off- always check before servicing.
3. Cleaning should be carried out at regular intervals to ensure that dirt does not accumulate to an extent that will impair the thermal safety of the luminaire. Regular cleaning will also ensure that the optical performance of the luminaires is maintained.
4. At the end of life the luminaire is classed as WEEE under directive 2002/96/EC and should be disposed of in accordance with local legislation.
5. All other parts of these luminaires, in small quantities, may be disposed of in the normal way. However, if large quantities of plastic are to be incinerated special precautions should be taken against the fumes which may be given off.

Luminaire Cleaning



End of Life and Components Disposal



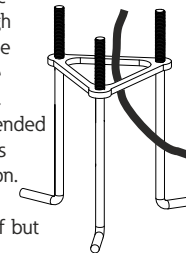
Chatham

- This product is not suitable for applications where it may be subjected to physical abuse. The heavy duty base option can be used to increase vandal resistance but suitability of this is the responsibility of the customer/end user.
- These fittings can be subject to condensation on the polycarbonate lens
- Product luminaires comply with EN60598 and are suitable for use in normal exterior conditions.
- This luminaire has an ambient temperature range of -40°C to 40°C
- For Emergency variants - This luminaire has an ambient temperature range of 5°C to 35°C

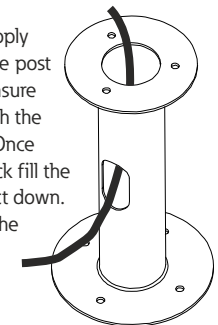


1 Preparation

All variants are complete with tri-frame mounting bolts - these must cast in and used as minimum standard mounting method below hard standing or compacted sub-layer. A minimum of 0.02m³ cast concrete shall be used in conjunction with the tri-frame mounting bolts. the concrete shall be a minimum depth of 300mm allowing 70mm of thread above the finished level. It is recommended that the base of all bollards are filled with 300mm of sharp sand or other desiccate to inhibit condensation. Ensure the supply cable is long enough to reach the terminations in the bollards and is fed through the centre of the triangular frame. Ducting or conduit is recommended. All ground mounted luminaires are susceptible to condensation. Condensation maybe visible in the lense when switched off but will dissipate when in use

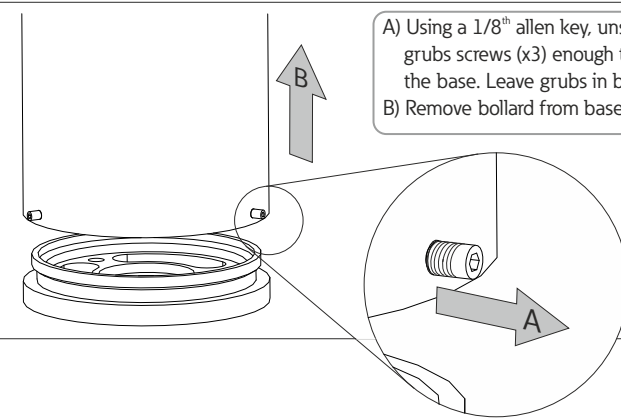


The Root Mounting Post, shown below (sold separately under part number CHARMP) is to be used in soft ground without a concrete base. The post should be bitumen coated on site to guard against any potentially corrosive soil conditions. Prepare a hole for the mounting post (approx 400mm deep and a minimum of 220mm in diameter). Place mounting post into hole ensuring that it is sat evenly. Feed the supply cable through the side of the post and exit through the top. Ensure cable is long enough to reach the termination in the bollard. Once everything is positioned back fill the hole with earth and compact down. Leave enough space to fix the bollard base (see instruction 3).



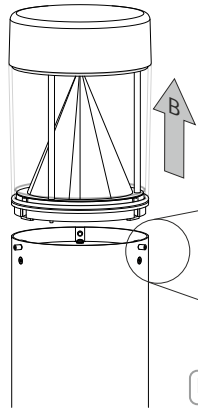
2 Disassemble

- A) Using a 1/8th allen key, unscrew the grubs screws (x3) enough to lift off the base. Leave grubs in bollard.
B) Remove bollard from base.

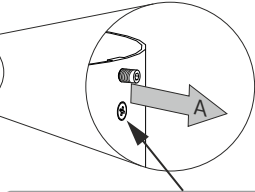


3

Disassemble - Continued

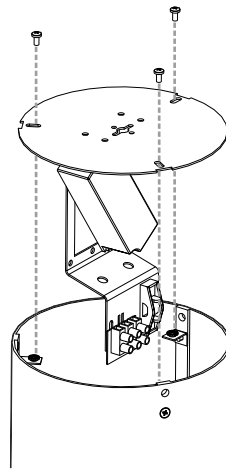


- A) Using a 1/8th allen key, unscrew the grubs screws (x3) enough to lift off the bollard's head. Leave grubs in bollard.
- B) Disconnect cables from gear to head and remove head from bollard.



Note: DO NOT unscrew the second screw

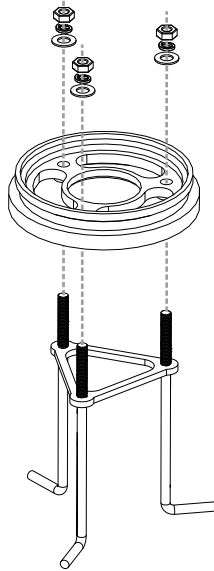
Unscrew and retain the screws (x3) holding the geartray in place. Remove geartray from bollard.



4

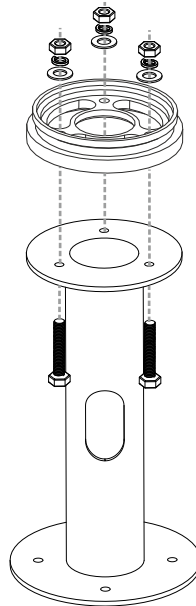
a) Assembly
Tri-frame Anchor Bolts

Once the concrete base is set, fix base to the "J" bolts by locating the base on the bolts and fastening into position with a flat washer, spring washer and nut (17mm). Repeat this for the other two bolts. Ensure nuts are fully tightened (to 17Nm). Check the base is level using the integral level indicator.



b) Assembly
Root Mounting Post

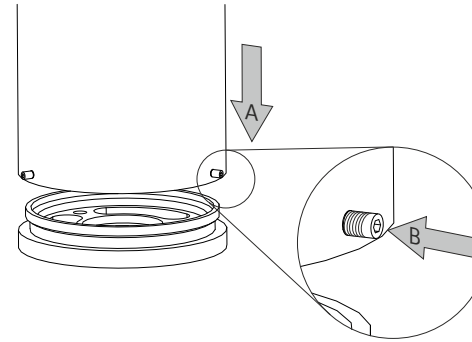
Once the post has been compacted into the earth, feed the 3x17mm bolts through the bottom of the post and the bollard base. To lock into position fix the flat washer, followed by the spring washer and then the nut. Repeat this for all three bolts. Ensure nuts are fully tightened (to 17Nm). Check the base is level using the integral level indicator.



5

Assembly - Continued

- A) Fit bollard onto the base.
- B) Using an allen key, tighten the grubs screws (x3) ensuring the bollard is secure.
- C) Fill the bollard with dry sand (approx 300mm) via the opening at the top of the body.



- A) Wire terminal block (as shown).
- B) Fix gear back into position using the three screws previously removed.

LUMINAIRE MUST BE EARTHED

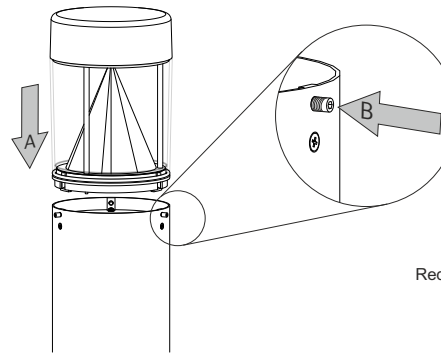
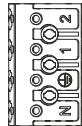
Mains

- L - Brown (Switched) Live
- ⊕ - Green/Yellow (Earth)
- N - Blue (Neutral)







Emergency

- 2 - (Unswitched) Live
- 1 - Brown (Switched) Live
- ⊕ - Green/Yellow (Earth)
- N - Blue (Neutral)



After wiring the bollard head (as image below) then:

- A) Locate head onto bollard.
- B) Whilst applying pressure to the head of the bollard, tighten the grubs screws (x3) using allen key.

- Red (Switched) Live - L   L - Brown (Switched) Live
- Black (Neutral) - N   N - Blue (Neutral)