

### SAFETY FIRST

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

All materials to be needed using suitable mechanical equipment or sufficient manpower for the weight of the item being handled.

### TOOLS REQUIRED

Tri-Head key  
5mm Allen Key  
Electrical Screwdriver

Side Cutters  
Drill and 10mm Metal Bit  
Concrete - ST2 BS8500

### PACKING LIST

Box 1 - Solar Panel  
Box 2 - LED Unit  
Box 3 - Solar Panel Support, Battery and Regulator  
Post not supplied

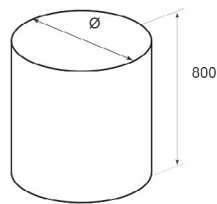
## INSTALLATION

**1** Excavate a foundation hole with reference to the table below.

Planted root (800 deep)

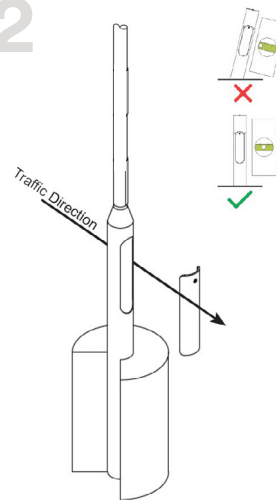
Administrative Area*	Non-Coastal**	Coastal**
Extra light	Ø 375	Ø 425
Light	Ø 425	Ø 475
Medium	Ø 475	Ø 500
Heavy	Ø 500	Ø 575
Extra Heavy	Ø 600	Ø 675

*The table assumes poor ground conditions.*



\*Administrative area are defined in PD6457, Annex A  
\*\*Coastal is defined in PD6547 as within 5Km of the mean high spring tide height.  
If posts are to be installed in exposed locations or where local wind funnelling or topography is significant, specialist advice should be sought.

**2**



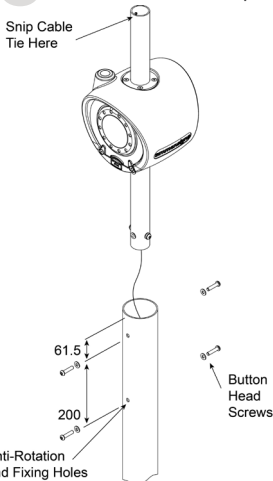
Make a mark on the post 800mm from the bottom to represent finished ground level. Insert the column base into the centre of the excavated hole with the door facing away from the oncoming traffic.

Backfill with standardised prescribed concrete ST2 to BS 8500 up to ground level marker on the post. Use a spirit level to ensure that it is vertical.

Note: allow the concrete to set before continuing with the installation.

Remove and retain the column door.

**3** Drill a 10mm diameter hole through the post front and rear 61.5mm from the top edge. Drill two more holes 200mm below.

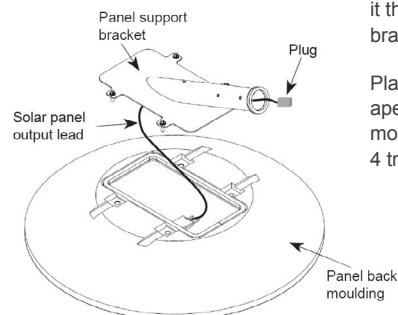


Take the EYECON assembly and uncoil the two low voltage drop leads. Pass both ends down the post into the base housing. Place the EYECON onto the post, so that the lower stem slides down until the EYECON seats on the post top ensuring the LED array/s are pointing in the direction of traffic flow and the holes in the post top line up with the stem fixings.

Fix with the two M8 x 35 Security button head screws and fibre washers through the post into the stem fixings.

Snip the transport cable tie at the top of the solar panel spigot. This will release the PV connection cable.

**4**



Assemble the solar panel support by uncoiling the solar panel output lead and feeding it through the panel support bracket as shown.

Place the bracket over the aperture in the panel back moulding and secure with 4 tri-head screws supplied.

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**5**

Pull the solar panel output lead out of the solar panel support bracket and carefully lift the solar panel assembly above the solar panel spigot. Connect the solar output lead to the PV connection lead using the corresponding plug and socket.

Place the solar panel over the solar panel spigot taking care not to trap the solar output cable.

Rotate the panel to point directly South, ensuring that the panel has an unobstructed view of the sun throughout the day.

Check the upper seal is compressed to the top plate of the EYECON. Tighten the four grub screws to lock the panel in place.

**6**

Only make connections in the order detailed below

Moving to the column base, fix the regulator plate in the base with the M8 hex socket set screw and nuts supplied.

At this point ensure that the root of the column base will not fill with rising water above ground level. If there is a risk of this, create a drain hole in the column near the ground level in order to protect the batteries from water ingress.

The next step (7) is to install the batteries and make the connections. Please ensure that the connections are made in the following order:

1. Battery
2. Load
3. Solar Panel

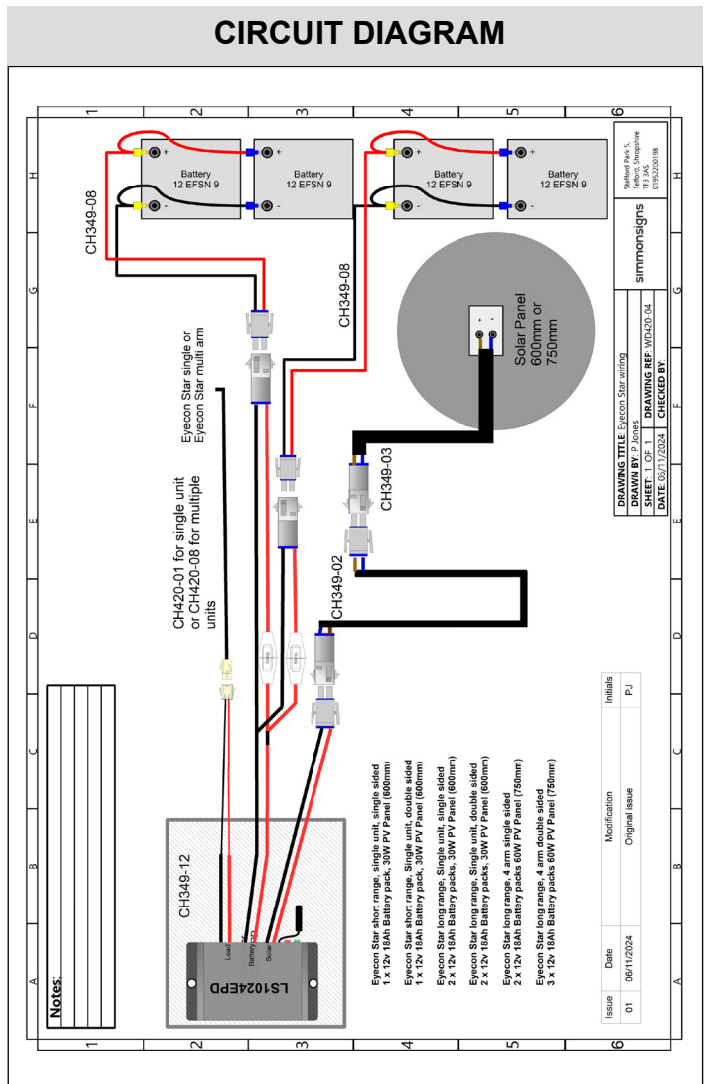
**7**

Hang the battery pack from the hook below the regulator. Connect the battery to either of the available battery connectors.

Make the remaining connections to the load and finally the solar panel. Locate the regulator On/Off Switch and press to switch on. (Note. Do not stand in front of EYECON during power up.)

EYECON will need to go through a self-test routine for a short period (Approx. 30 Seconds) after which it will be operational.

REGULATOR STATUS			
Charging Status LED Indicator	Green	On Solid	Normal
	Green	Fast Flashing	Over Voltage
Battery Status LED Indicator	Green	On Solid	Normal
	Green	Slowly Flashing	Full
	Orange	On Solid	Under Voltage
	Red	On Solid	Over Discharged
Radix Point of Digital Tube (Load Indicator)	Red	On Solid	Load ON
	Red	Slowly Flashing	Over Load
	Red	Fast Flashing	Short Circuit



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