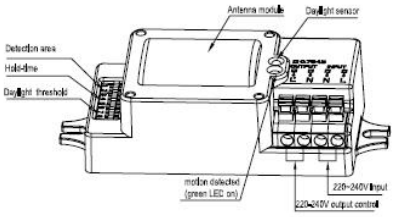
Emerald EYE Sensor Kit Installation



General Guidelines for Installation

1, The sensor should be installed by a qualified electrician. Ensure that the electricity supply is switched off before installing or servicing the product.

2, The sensor should not be modified in any way. Any modifications made to this product will immediately invalidate any warranty issued.

3, The company does not accept responsibility for any consequences resulting from unauthorized modification of the product.

4, The sensor should be connected to a stable power supply of 220/240Vac 50Hz.

5, Microwaves cannot pass through metal or brick walls if thicker than 20cm. They will pass through thinner walls but there will be some attenuation.

6, Installation inside a glass or plastic housing will result in a reduction of detection sensitivity. Expect a reduction of approximately 20% for every 3mm of thickness.

Installation *Small Philips screwdriver needed for step 1 (if required)

- **Please Note: - If your High Bay already has IP65 plugs and sockets attached to its power cable, go directly to step 2**

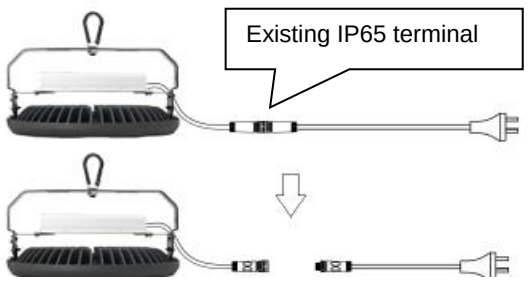
1. Replace the existing IP65 terminal with IP65 female socket and IP65 male plug.

Connect L wires to the Orange connectors

Connect N wires to the Silver connectors

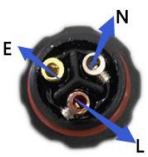
Connect Earth wires to the Golden connectors

Note: - In order for the High Bay and sensor to work correctly, the male plug *MUST* be connected to the High Bay side of the power cable and the female socket *MUST* be connected to the power supply side of the cable as shown below in step 1.

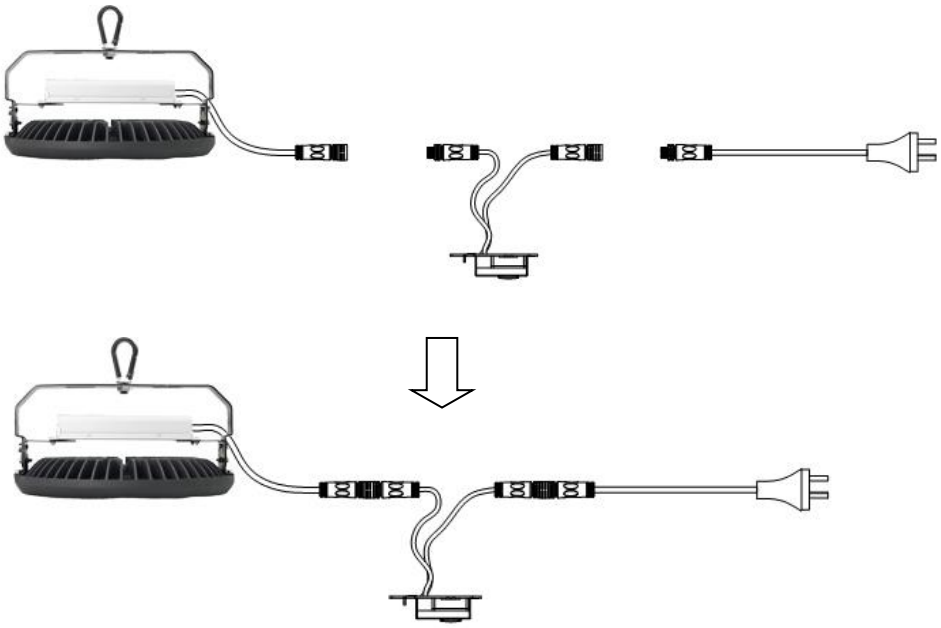


Male

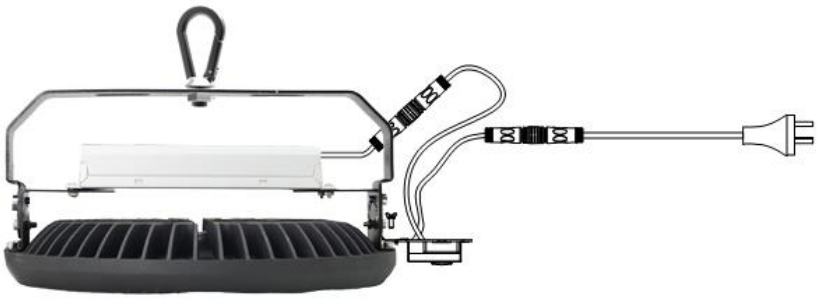
Female



2. **Connect the plug and socket to sensor kit**



3. **Use finger screw provided fix the sensor kit on hi-bay using pre-drilled screw holes.**



Settings

Detection area, hold time and daylight sensor can be set using DIP switches on the sensor. Note that reducing the detection area will also reduce the sensitivity.

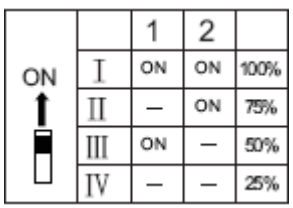
1, Detection area

I: up to 10m

II: up to 8m

III: up to 6m

IV: up to 4m



2, Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

I: 5s

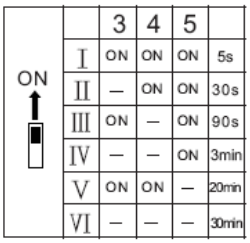
II: 30s

III: 90s

IV: 3min

V: 20min

VI: 30min



3, Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. The settings are as follows:

I: 5lux, darkness operation only

II: 15lux, darkness operation only

III: 30lux, twilight operation only

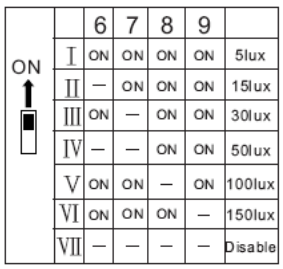
IV: 50lux, twilight operation only

V: 100lux, twilight operation

VI: 150lux, twilight operation

VII: Disable*

*When set to Disable the daylight sensor will switch on the lamp when motion is detected regardless of ambient light levels.



Note - Default Settings.
Emerald Planet presets each sensor to a default setting that we believe best achieves maximum energy savings and customer lighting outcomes based on common warehouse spaces. The default setting is,

- Detection Area 50% (recommended for ceiling heights up to 6m,
- Hold Time of 30secs (if no motion is detected for 30secs, the light will switch off)
- 150lux Daylight setting (if greater than 150lux is detected at the sensor, the light will not illuminate if motion is detected.)

Technical Specifications

Input voltage	220/240Vac 50Hz
Rated load	400W(Inductive load), 800W(Resistive load)
Detection area	0.5~8m, adjustable.
Hold time	5s / 30s / 90s / 3min / 20min / 30min.
Daylight sensor	5lux / 15lux / 30lux / 50lux /100lux/150lux/ Disable
Sensor principle	Microwave motion detector
Microwave frequency	5.8GHz±75Hz, ISM wave band
Transmitting power	<0.5mW (1% of transmitting power for cell phone)
Detection range	Max. (Φ x h): 16m x 12m
Detection angle	150°
Motion detection	0.5~3m/s
Operating temperature	-20℃~60℃
IP rating	IP20

FAQ

Question	Cause	Remedy
The light will not illuminate.	Incorrect daylight sensor setting selected.	Adjust setting.
	Light has failed.	Replace light.
	Mains Power is not connected.	Check power supply.
The light is permanently illuminated.	Continuous movement in the detection area.	Check detection area setting.
	The lamp (containing sensor) is installed in an area too close to reflective surfaces, i.e. metal, glass or concrete walls.	1, Make sure installation area suitable with at least 30cm space between lamp and surrounding reflective surfaces. 2, Reduce sensitivity (detection area).
The load will not illuminate despite movement.	Speed of moving object is not in the range of 0.5-3m/s or the detection radius is too small.	Check detection area settings.