

Mayton Street Landscape/Street Furniture Maintenance

The following is the proposed plan for maintenance to be undertaken by One Manchester following completion of the above new build site.

Landscaping

Basic cut and collect/ litter pick /shrubs etc , 2 operatives 4 hours per operative March to October, 2 visits per month (summer period)

Basic visit 2 operatives, 4 hours per operative September to February, 1 visit per month

Trees should not need any attention in the first few years, however they will also be reviewed at each visit

Benches x 3

As per the product specification we will ensure an annual clean/wipe down takes place. We currently will be monitoring the benches with a view to replacement every five years

Solar Street Lighting

Annual inspection including time setting, cleaning the surface of the panels with water and a soft cloth and general performance. We would currently anticipate replacement of the luminaires every eight years.

6.7.22



Model SL31 & SL33



LED Area Lighting System **User Manual**

Before installing this solar lighting system, please read this user manual to avoid damage or installation errors.



Precautions

Operating Conditions & Limitations:

This product is rated as IP65 protection grade. Do not exceed the stated operating limits. The operating temperature range is from -20°C to 60°C and the charging temperature limit is within 0 to 60°C. If equipped with heating features, it may be used between -40°C and 60°C. The heavy-duty structure will survive most weather conditions including wind. However, major wind storms may cause damage to the lighting system.

Transportation & Storage:

This product contains lithium batteries. Please follow air transport regulations when shipping. It should be regarded as potentially flammable and explosive, and be isolated from other goods when stored, so as to avoid any damage.

The solar panels of this product should be considered as fragile. There should never be more than 4 layers of boxes when stacked. To avoid damage to the panels, make sure no heavy pressure is applied to the boxes.

Please store the product in temperature between 0°C to 45°C.

If stored for a long period, the product should be recharged every 6 months. Please only use the special charger (purchased from manufacturer) to avoid damage to the battery or device.

Modification:

It is not on the terms of warranty if clients does modify or refit the light leading to no-proper working without authorization of Solar Illuminations.

Product Maintenance:

To ensure effective solar light absorbance, clean the surface of the panels regularly with water and a soft cloth. Do not use chemical solutions or abrasives.

This solar lighting system operates on a low voltage DC current. Unless customized otherwise, do not connect components or ports to an AC current or any higher rated DC voltage.

Do not replace the original unit with unauthorized third party parts as they may cause serious damage to the product. To order replacement parts or to have them fitted, please contact Solar Illuminations or your point of purchase for more information.

Product Recycling:

This product is made from recyclable, high-performance materials. All materials are compliant to the ROHS standard. Do not dispose of this product with other household waste.

Please check your local regulations on collection and disposal of electronic items. Proper disposal of used product helps prevent negative impacts on the environment.



RoHS
COMPLIANT

IP65



Introduction:

The SL31 and SL33 solar lighting systems are unique and exclusive to Solar Illuminations.

This system features components that are fully integrated within an attractive and compact design. It combines a highly efficient adjustable solar panel with a 'smart' and 'intelligent' charge controller to energize a high capacity lithium-ion battery that supplies power to the Super-Bright Bridgelux LEDs. The result is a high luminance, long lifespan, minimal maintenance luminaire that has been designed for quick and easy installation. Offered with a choice of Type II or III distribution.

The SL31 system is supplied as a complete lighting system which is suitable for attaching to the top of a suitable existing round pole or column. The SL33 system is supplied complete and includes a pole or column. For pole or column diameters of 89mm (3.5") O.D., a tenon adaptor is required.

Applications:

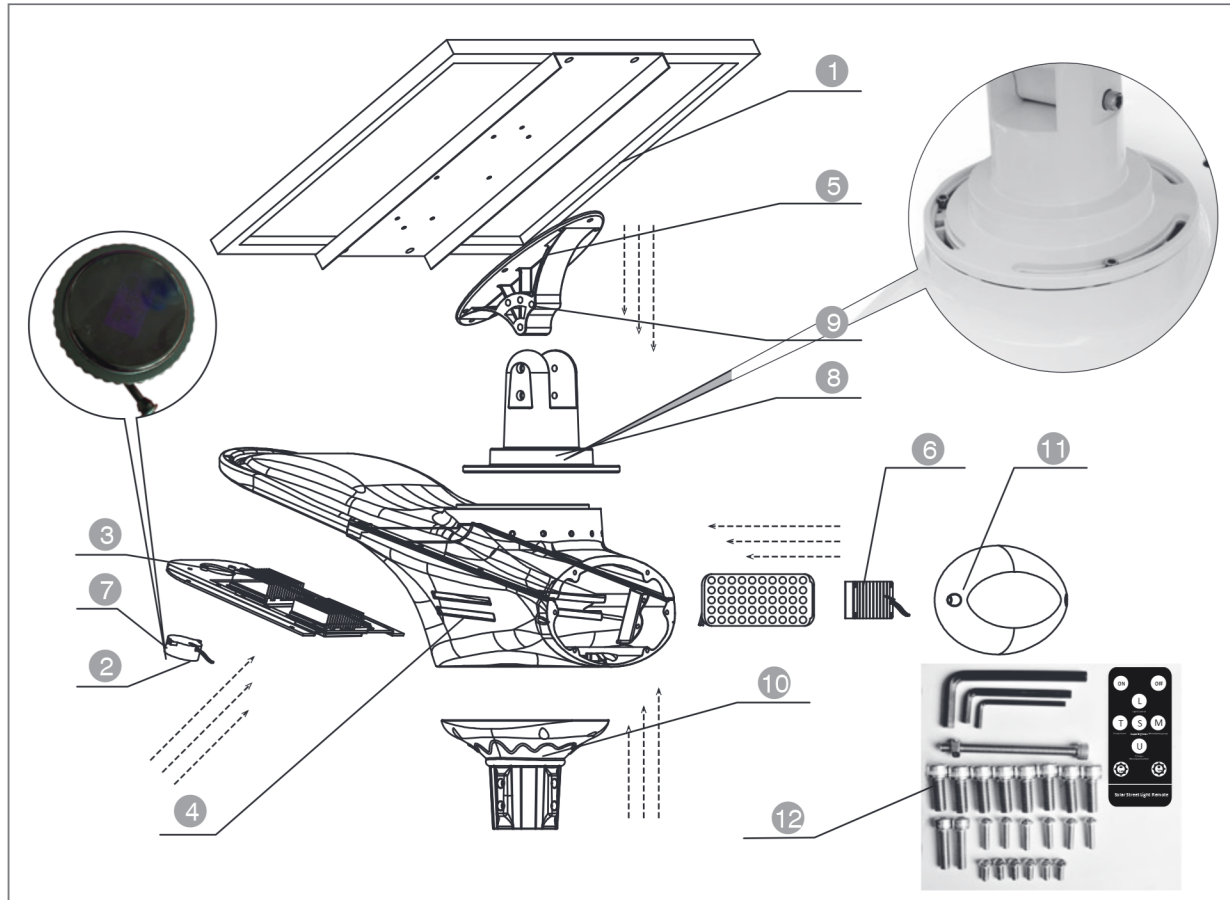
Suitable for a wide range of applications. Perfect for street, parking, and general area lighting.

LED power choice from 15W to 30W and from 40W to 100W by special order.



- * Public spaces, parks, recreational, amenity, playgrounds, and common areas
- * Schools, colleges, campuses, and educational facilities
- * Small streets, private roads, communities, COA's, and HOA's
- * Bike trails, walking trails, bus stops, mailbox kiosks, walkways, and footpaths
- * Public and private sector applications
- * Parking lots, car parks, arenas, dog parks, storage facilities, and driveways
- * Boat ramps, promenades, and marinas
- * Commercial, Industrial, and perimeter security
- * Temporary applications (including portable and mobile) and construction sites

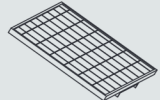
Parts & Functions



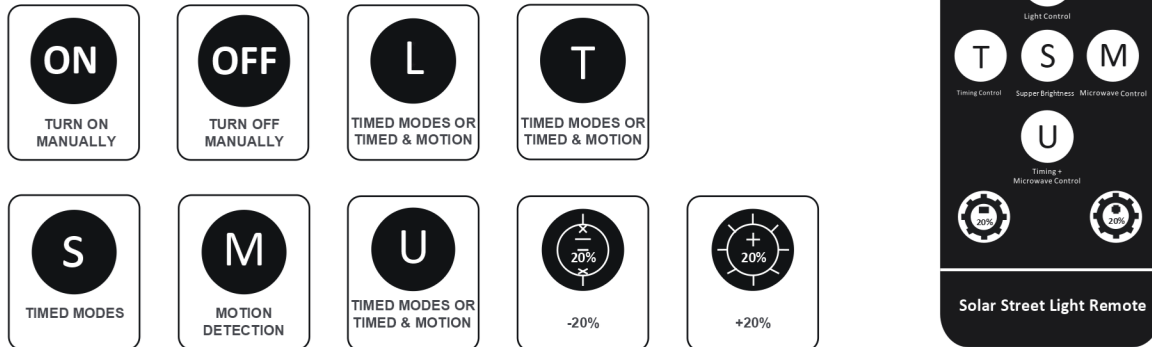
No.	Parts	Functions
1	Solar panel	Converts solar energy into electricity to charge the internal battery
2	Motion sensor	Detects movement/motion
3	LED light	To illuminate an area
4	Vents	For heat dissipation
5	Panel bracket support	Attaches to the solar panel (allows the panel to tilt)
6	Smart controller	Internal component for battery management
7	Display	Real time display showing the battery capacity
8	Rotating platform	Allows 360 degree solar panel rotation and adjustment
9	Multi-angle bracket	Attaches to the light body and solar panel bracket
10	Tenon	Allows the system to attach to a round post, pole or column
11	Maintenance cover	Easy access maintenance cover
12	M6x20 screws 6pcs, M6x12 screws 6pcs M8x100 screws 1set, M8x30 screws 2pcs M10x25 screws 8pcs, Allen key: 8mm 1pc Allen key: 6mm 1pc, Allen key: 4mm 1pc	fix bracket support, fix rotating platform fix multi-angle supporting seat, fix multi-angle supporting seat fix pole, fix M10x25 screws, fix M8x30 screws and M8x100 screw, fix M6x10 screws and M6x20 screws

Packing List

Only the SL33 system is supplied with a pole or column which is not shown in the parts list below:

Components & Parts	SL31 & SL33	Images
Light body & tenon	1pc	
Solar panel	1pc	
Multi-angle bracket with rotating platform	1pc	
Panel bracket support	1pc	
M8x100 screw	1set	
M8x30 screw	2pcs	
M10x25 screws	8pcs	
M6x20 screws	6pcs	
Φ8mm Allen key/wrench	1pc	
Φ6mm Allen key/wrench	1pc	
Φ4mm Allen key/wrench	1pc	
User manual	1pc	
Remote control	1pc	

Remote Control Programs



Operation is based on the factory mode programmed, or selected via the remote control (if included).

PRE-PROGRAMMED MODES

United Kingdom & Europe

- ON** Turns the light on manually.
- OFF** Turns the light off manually.
- L** After dusk, 20% output until dawn, with 100% output upon motion detection.
- T** After dusk, 100% output for 2 hours, then 50% output for 2 hours, then 100% output upon motion detection, until dawn.
- S** After dusk, 100% output for 2 hours, then 40% output for 3 hours, then 20% output for 2 hours, then off.
- M** After dusk, 100% output upon motion detection, until dawn.
- U** After dusk, 100% output for 3 hours, then 100% output upon motion detection, until dawn.
- Decreases the output in 20% increments.
- Increases the output in 20% increments.

USA & Rest of the World

- ON** Turns the light on manually.
- OFF** Turns the light off manually.
- L** After dusk, 100% output for 2 hours, then 70% output for 2 hours, then 20% output for 8 hours, then off.
- T** After dusk, 50% output for 1 hour, then 100% output for 4 hours, then 50% output for 3 hours, then 25% output for 4 hours, then off.
- S** After dusk, 100% output for 6 hours, then 50% output for 6 hours, then off.
- M** After dusk, 30% output, with 100% output upon motion detection, until dawn.
- U** After dusk, 100% output for 2 hours, then 70% output for 2 hours, then 50% output for 2 hours, then 20% output, with 50% output upon motion detection, until dawn.
- Decreases the output in 20% increments.
- Increases the output in 20% increments.

Please note:

If a custom / bespoke mode has been programmed by Solar Illuminations, ignore all of the above.

Remarks:

- ❖ Depending on your requirements, Solar Illuminations may have reprogrammed this lighting system to perform differently, as required. Therefore, the above modes may no longer be applicable, so disregard.
- ❖ The system has a built-in photocell to determine day and night. The programs will only operate at, or after dusk, once it is dark enough.
- ❖ Be as close to the lighting systems as possible when using the remote control as its range is limited.

- ❖ The solar panel should be connected when attempting to change modes. The battery must also hold enough charge.
- ❖ When selecting a mode, please hold the corresponding button for about 1 second. The system should respond with a light flash to confirm the button press.
- ❖ Once a mode has been selected, the system should store it in the memory until such a time that it is changed.
- ❖ Factory default is usually M mode.
- ❖ When in any mode that operates with motion detection, when motion is detected, the light will operate for a minimum of 30 seconds. If motion continues to be detected during this time, the system should automatically reset the timer.
- ❖ The battery inside the remote control may require periodic replacement, as necessary.

Microwave Sensor



What is a microwave sensor?

A microwave sensor works by emitting an invisible, high frequency electrical wave to detect motion or movement within its range. If you do not use a motion sensor mode, then this will not apply.

Why choose microwave detection for outdoor lighting?

1. It can pass through glass, wood, plastic and other non-metallic object, so it can be installed inside a luminaire therefor there is no influence on its appearance.
2. It won't be influenced by airflow, dust, temperature changes, or humidity, unlike PIR.

What should be noted when using a microwave sensor?

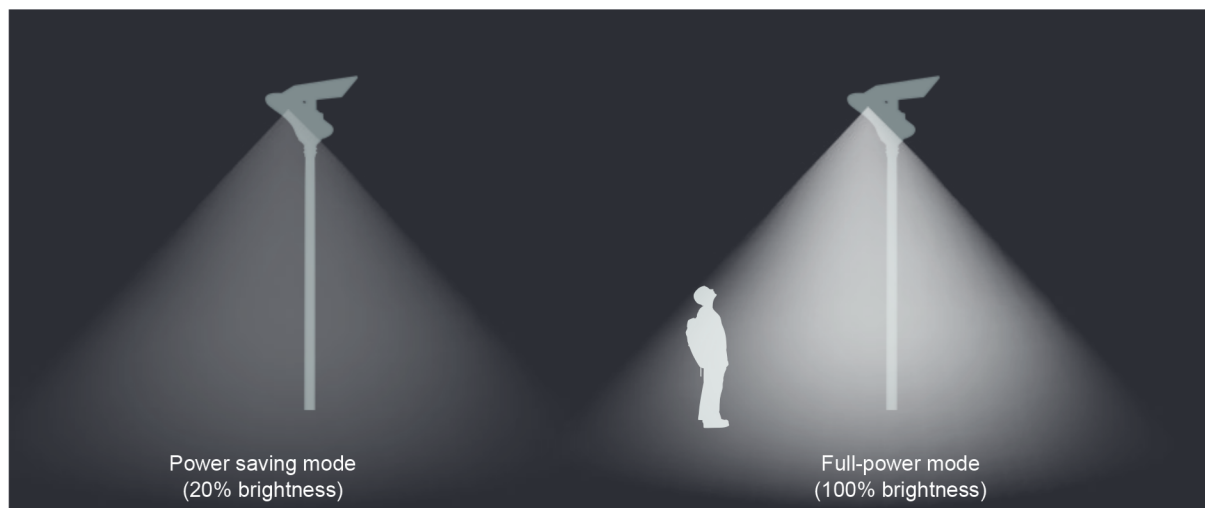
Microwave motion detection technology has improved over the years. As with any motion detector (microwave or PIR) it is possible that false triggering can occur. Avoid installing close to metal objects or in locations where there is random background movement and motion.

An incorrect installation can sometime be identified as below:

1. Light flickers or turns on randomly, regularly.
2. If the motion sensor activates too often, or constant 100% lighting, then battery will discharge.
3. If the motion sensor does not work, the activity is outside of the detection area/range.

Factory settings and motion detection functions:

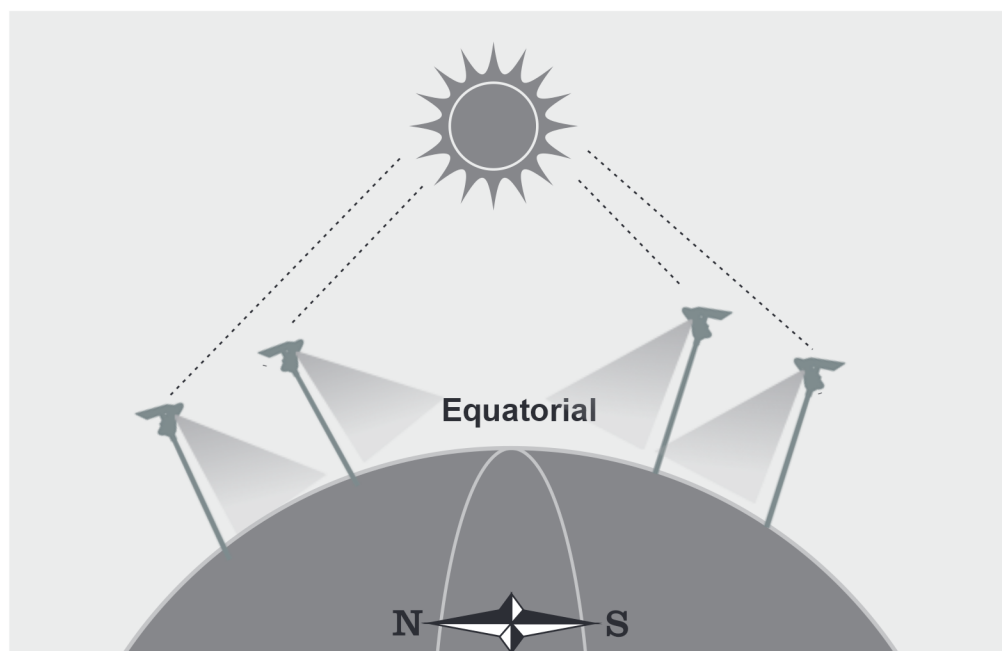
The factory setting of the SL31 and SL33 photocell is set at a threshold of 30 Lux (approx. 2.8 fc). The light will automatically turn on after dusk and turn off before dawn depending on the mode selected. In motion detection mode, it will react and turn on the light, or increase brightness when motion is detected, depending on the mode selected. When motion ceases, within a few minutes the system will revert back to its original output. The 5 pre-set mode options are programmed by Solar Illuminations.



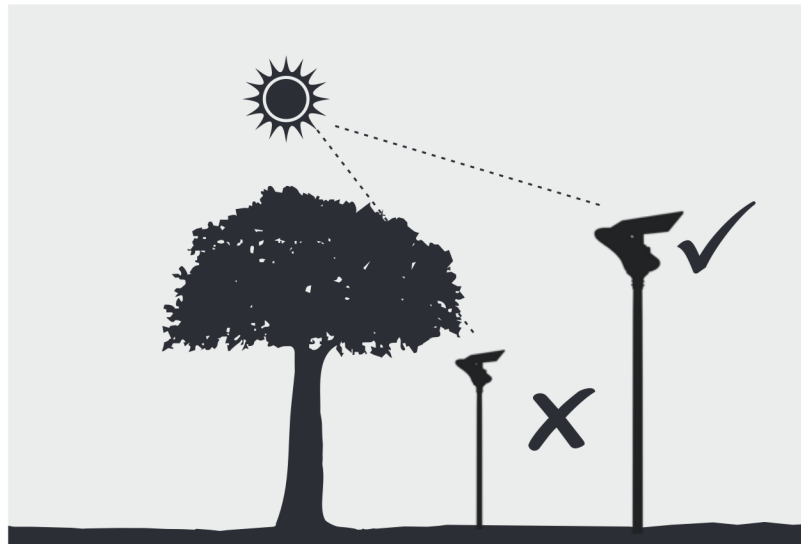
Installation

1. Environment:

- a For installations in the northern hemisphere, including countries such as the USA, Canada, the United Kingdom and Ireland, ensure that the solar panel is facing as south as possible and set at the appropriate angle. In the USA, the angle is typically between 40 and 50 degrees. In the United Kingdom and Ireland, the angle is typically between 50 and 60 degrees.



- b For maximum efficiency of any solar panel, make sure it is facing as south as possible, set at the correct angle, and not subjected to any shade or part shade such as trees or buildings etc.



2. Typical post/pole/column mounting heights and spacing:

Below is a guide that can assist you with determining a typical post, pole or column height and the typical spacing between each post, pole or column. Note: 1 meter = 3' 3".

LED Power	Type II distribution		Type III distribution	
	Height of pole	Distance between pole	Height of pole	Distance between pole
15W	3~5m	10~13m	3~5m	8~14m
20W	4~7m	13~16m	4~7m	10~18m
30W	5~8m	16~19m	5~8m	14~20m
40W	6~8m	19~23m	6~8m	15~25m
50W	7~8m	23~27m	7~8m	25~35m
60W	8~9m	27~31m	8~9m	35~40m
80W	8~10m	31~35m	8~10m	40~45m
90W	8~10m	35~40m	8~10m	35~40m
100W	8~10m	35~40m	8~10m	40~45m

How to install and commission the lighting system

- * When carrying out tests or installation during daylight hours, connect the waterproof cable between solar panel and the lamp body, press the remote " ON" button, the lamp should turn on for about 1 minute and then turn off. This should confirm a successful test and you can proceed on with the next test.
- * Another test can be carried out during daylight hours. With the system removed from its cartons and placed outside, connect the waterproof cable between the solar panel and the lamp body. Wait at least 3 minutes. Within the motion detector lens, a red LED will flash to confirm a successful test.
- * To carry out a test during darkness, once the waterproof cable between solar panel and lamp body is connected, press the " ON" button on the remote control, the lamp should turn on. Press the "OFF" button on the remote control to turn the lamp off, otherwise it will stay on for approximately 12 hours.



Post/Pole/Column:

Attach to a suitable round post, pole or column 60~76 mm or 2.5"~3" O.D. (See Figure 1)

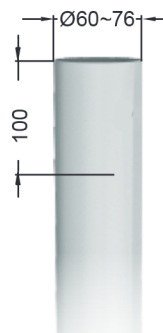


Figure 1

Installation:

- 1 **Bracket support:** Fix the multi-angle bracket on the solar panel with 6pcs M6x20 screws. Make sure 'up' is towards the LED lamp. (See Figure 2)



Figure 2

- ② **Rotating platform:** Use 6pcs M6x12 screws to fix the 360° rotating platform, according to the orientation of the area to be lit. (See Figure 3)

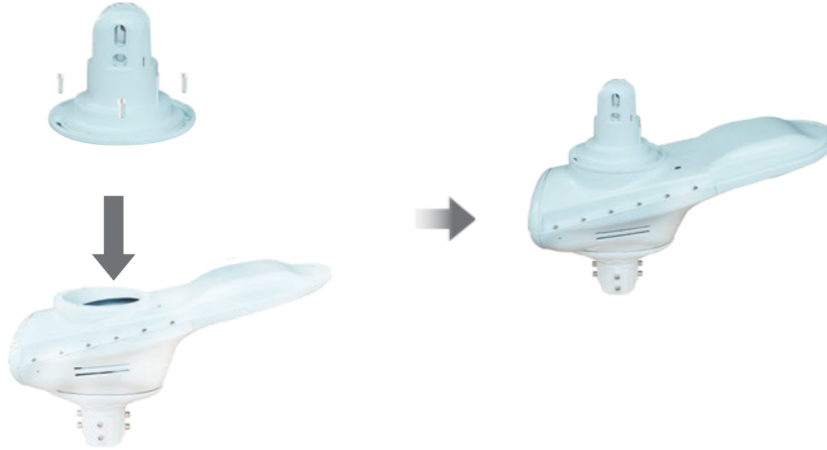


Figure 3

- ③ **Solar panel:** Use 2pcs M8x30 screws and 1set M8x100 screw to fix the multi-angle bracket. Select the correct holes according to the required angle and direction for your location. Make sure the solar panel is facing towards the sky and the shorter end is towards the lamp, otherwise you will not be able to set it at the correct angle. (See Figure 4).

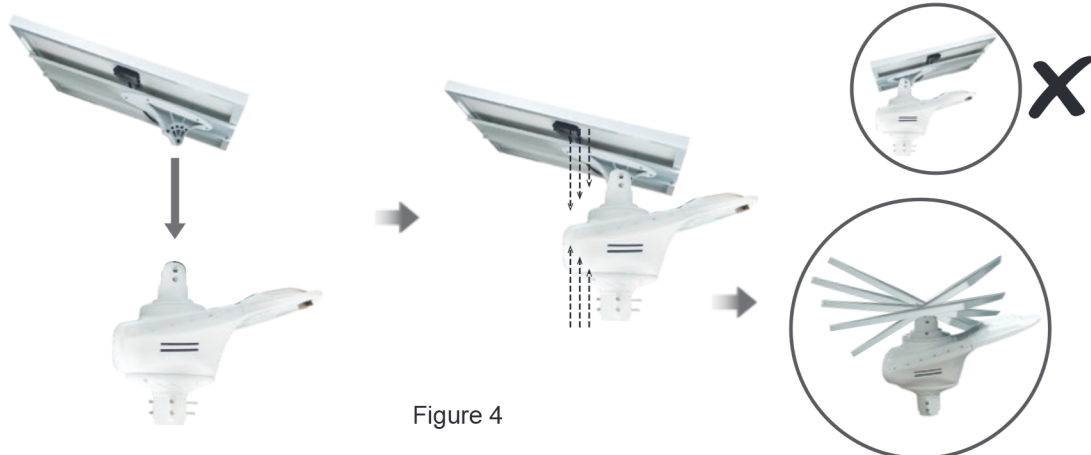


Figure 4

- ④ **Complete system:** Attach the lighting system to the pole or column with 8pcs M10X25 screws. The maximum torque for the M10X25 bolts is 29Nm. Do not exceed this torque. (See Figure 5)

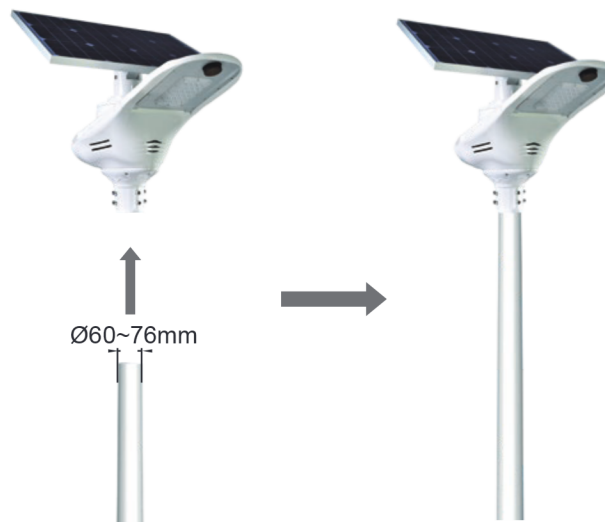


Figure 5

Trouble Shooting

No.	Situation	Trouble shooting steps	Possible solution
1	No light at night	Check that the lamp can be manually activated via the remote control.	Refer to "Activation and Installation" section on this user guide and run activation tests.
		Check if the solar panel is shaded from the sunlight by houses, trees, or other obstructions, etc.	Clear obstructions or change installation location.
		Check if there is any artificial light source(s) shining on the solar panel during the night. e.g. nearby lights.	Remove the artificial light source(s) or interference. Or change the installation location.
		Examine status of each component based on the repair guide.	Replace the damaged component(s).
2	A serious shortage of working time	Check if the solar panel is shaded from the sunlight by houses, trees, or other obstructions.	Clear obstructions or change installation location.
		Check if the surface of the solar panel is dusty, dirty or covered.	Clean the surface of solar panels as necessary with glass cleaner.
		Examine if the battery pack is damaged as per the repair guide instructions.	Replace damaged or expired battery.
3	Lighting does not follow the normal operating mode of turning on and off		Replace damaged or expired battery.
4	Lights fail to turn on properly when humans approach	Check if that the motion is taking place within the range of the motion detector.	Adjust or relocate the lighting system to a location that is within range of the activity you wish to detect.
		Check if the lighting system has been installed too high above the ground.	It is out of motion detection range when installation height exceeds 8m. It is recommended to reduce the height or use other operating modes.
			Replace damaged motion sensor or controllers.

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Recycled Plastic Outdoor Bench Dale

The Dale Recycled Plastic Outdoor Bench is a classic seat design and is ideal for Sports Clubs, Gardens, Cemeteries, Schools, Estates and Holiday Parks. With a slightly curved seat it is extremely comfortable and favoured by sports clubs such as bowls, tennis and cricket. The Dale is very easy to maintain and are very long lasting. Just a wipe down every year or so will keep your Dale bench in top condition. You can order the Dale in brown for a traditional look or black for a stylish and more modern feel. Outdoor seating has never been so easy. Made from recycled plastic waste that would otherwise been destined for UK landfill the Dale is a sound environmental choice. The Dale bench will not blow over in high winds or wash away in floods.

- Made from 100% recycled plastic waste
- Will not rot or need treating, unlike timber
- No more splinters or splitting timber
- Easy to wipe clean and dry
- Strong and Robust
- Supplied and delivered Assembled
- Weatherproof
- Long life span
- 1200 = 2 seater,



Brand	TDP	Lead Time	Contact for Information	Indoor/Outdoor	Outdoor
Supplier	TDP	Depth	650	Disabled Access	No
Product Type	Bench	Height	950	Anti Theft	No
Guarantee	5 Years	Samples Available	No	Shape	L Shape :
Pack Size	1	Interlocking Joints	No		