

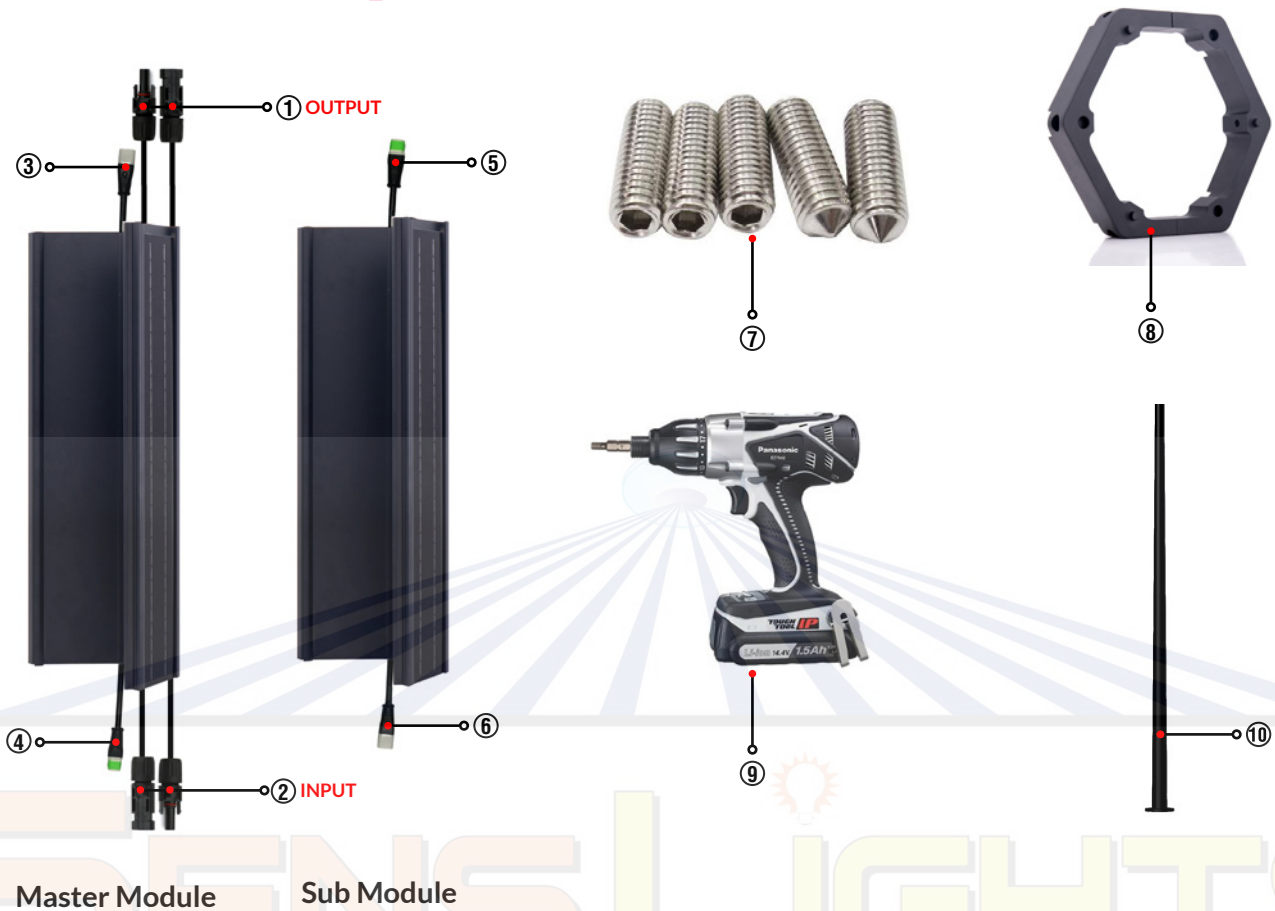
# SolarWrap

Cylindrical Solar Module For integrated Solar street lights.

Cylindrical Solar Street Light Post

Cylindrical Solar Module  
For Integrated Solar Post

## Required Materials & Tools



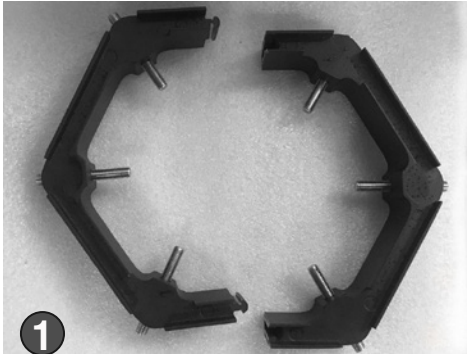
- |  |  |   |
|--|--|---|
| <p><b>① MC4 CONNECTORS FOR OUTPUT</b><br/>( Male + Female connectors ). This pair of connectors can connect to solar light head or other cylinder module above it</p>  | <p><b>② MC4 CONNECTOR FOR INPUT</b><br/>( Male + Female connectors ). This pair of connectors can connect to the other cylinder module beneath it or just leave it</p> | <p><b>③ WATERPROOF FEMALE CONNECTOR.</b><br/>This will connect to the <b>⑤</b> male connector of sub module to connect the master and sub module as one unit.</p> |
| <p><b>④ WATERPROOF MALE CONNECTOR.</b><br/>This will connect to the <b>⑥</b> female connector of sub module to connect the master and sub module as one unit.</p>  | <p><b>⑤ WATERPROOF MALE CONNECTOR.</b><br/>Connect to the <b>③</b> female connector of master module.</p>  | <p><b>⑥ WATERPROOF FEMALE CONNECTOR.</b><br/>This will connect to the <b>④</b> male connector of master module.</p>   |
| <p><b>⑦ M8 SOCKET HEAD CAP SCREW</b><br/>Included in package of solar cylinder module. Lengths are different according to the pole to mounted on.)</p>   | <p><b>⑧ MODULAR BRACKETS</b><br/>It include two parts as ( A B sides).</p>   | <p><b>⑨ SCREW DRIVER.</b><br/>With the screwdriver set head to fix <b>⑦</b> screws.</p>   |
| <p><b>⑩ STREET POLE</b><br/>The pole diameter to install this solar cylinder should be between 80~165mm. 120~160mm is preferred. Customer may arrange. Or Supplier arrange it as customers' per demands.</p> |  |   |

## Required Materials & Tools

Modular brackets should be tight enough by fasten 6pcs of screws in modular brackets.

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1

Use the screw driver to fix the screws into the modular bracket at the proper position according to the diameter of the part of the pole where the modular brackets to be mounted.



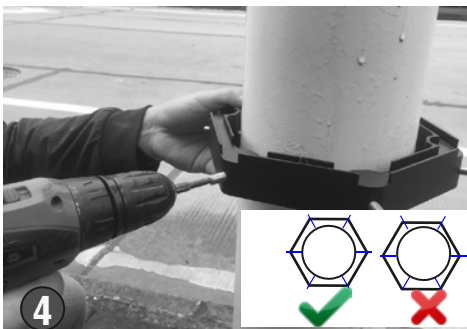
2

Buckle the modular brackets on the pole, and Lock the two parts as one unit, make sure two parts are at same level (VERY IMPORTANT).



3

Connect the two parts of brackets and make the junction area flat and without any tilt. This step is very important. or the module will be tilted.



4

Fasten the 6 pieces of screws with driver, make sure the pole is in the exact middle of the brackets.



5

Make sure the brackets are mounted very tight and strong enough, it can hold 50KG.



6

Put the first master module on the brackets in the right position.



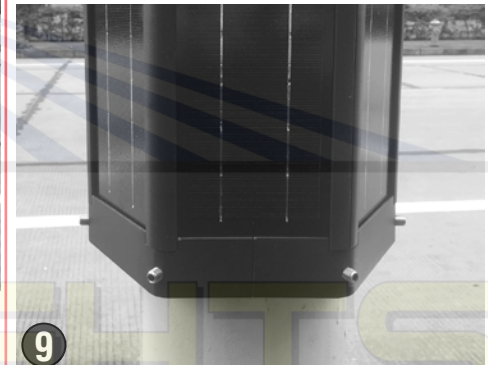
7

With another person's help, Install the sub module from the top of master module, and slide down the sub module carefully, but hold it when sub module reaches the brackets with 20cm distance.



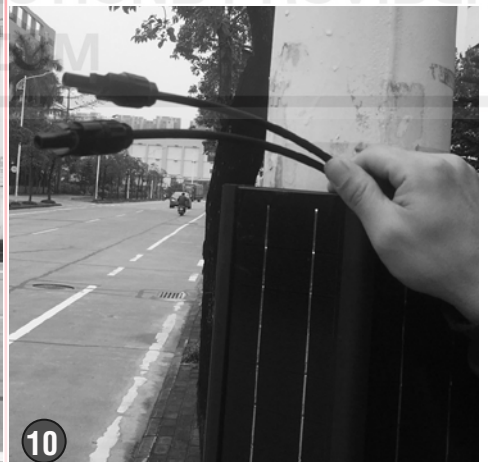
8

Connect the sub and master modules by the two waterproof connectors at bottom place and the top place. Connect ③ to ⑤, and connet ④ to ⑥.



9

After connetion of the cables of last step, put down the sub module carefully, and put the two modules on the brackets at the best position.



10

Take out the two MC4 cables from the master module carefully, Hold it and do not let it fall into the modules.



11

Put **second** brackets over the module in opposite direction to the bottom brackets. Install it in the same way as installing the first brackets.



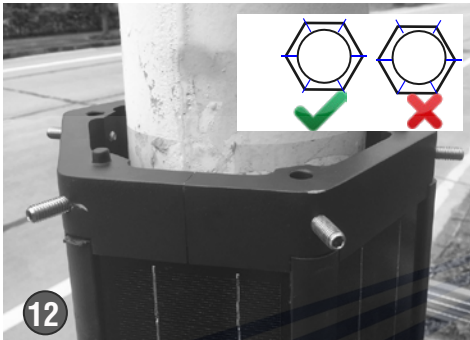
15

Make sure the two MC4 cables are outside through the third brackets. (Ready to install the next modules.)



18

Connect the MC4 connectors and put it back inside of the module tube. (It will be invisible from outside.)



12

Adjust the position of the brackets at the best position. Similarly, let the pole in the middle of the hexagon brackets.



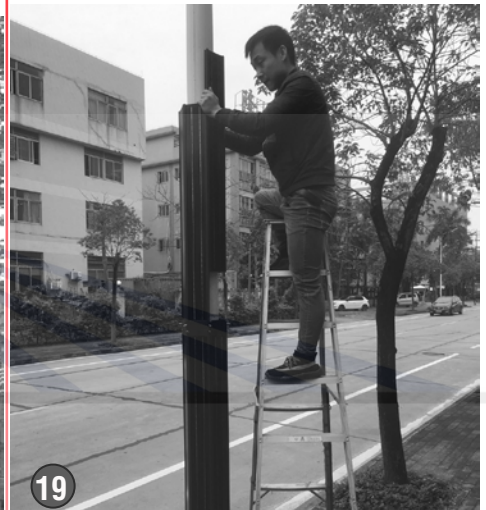
13

Fasten the 6 pieces screws with driver carefully.



16

Put the second master module on the bracket in the same way as **6** mentioned

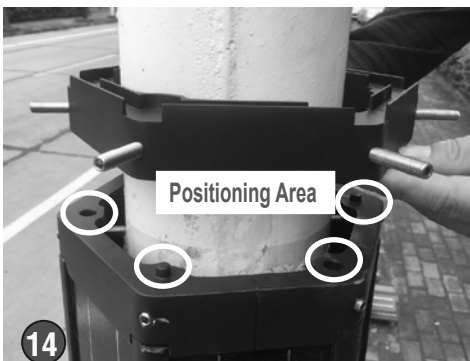


19

Put the second sub module on the bracket in the same way as **7** mentioned.

Repeat the operations as **8 9 10** to complete the pending installation.

Finally connect the last two MC4 connectors on top of pole to solar light head directly.



14

Put the third brackets over the second brackets, and take out the two MC4 cables of first modules through the third brackets.

**NOTE:**

Let the two brackets fit snugly through the three positioning holes.

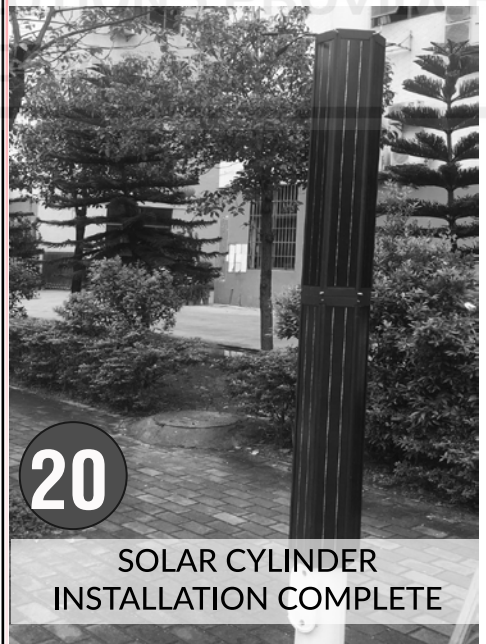


17

Connect the first module to the second module by MC4 plugs directly.

PLUG IN. EASY OPERATION

PLUG IN DIRECTLY



20

**SOLAR CYLINDER  
INSTALLATION COMPLETE**

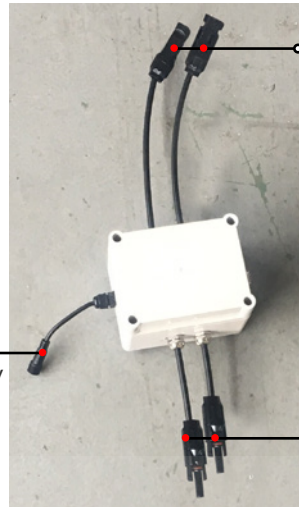
## Why Light Sensor?

Comparing with regular solar led street light with solar panel mounted over the light head. Cylindrical solar panels are mounted under the solar light head. So the solar light head which work with solar cylinder is a little different from regular solar light head.

Because solar panels can work with artificial light and it generates voltage changing based on which regular solar lights turns ON/OFF. So the regular control system cannot work. The solution is to add light sensor to light head.

if there is only one solar light on one pole or two lights installed at same height. The light sensor can be fixed on light head as wiring diagram A shows.

If there are 2 or more solar lights on one pole at different height, the sensor MUST be installed on the top of pole separately. as wiring diagram B shows.



**OUTPUT**  
Two connectors,  
Each one is for one piece  
(or one group).

DC12~24V  
Input

**INPUT**  
Two connectors,  
Each one is for one piece  
(or one group).

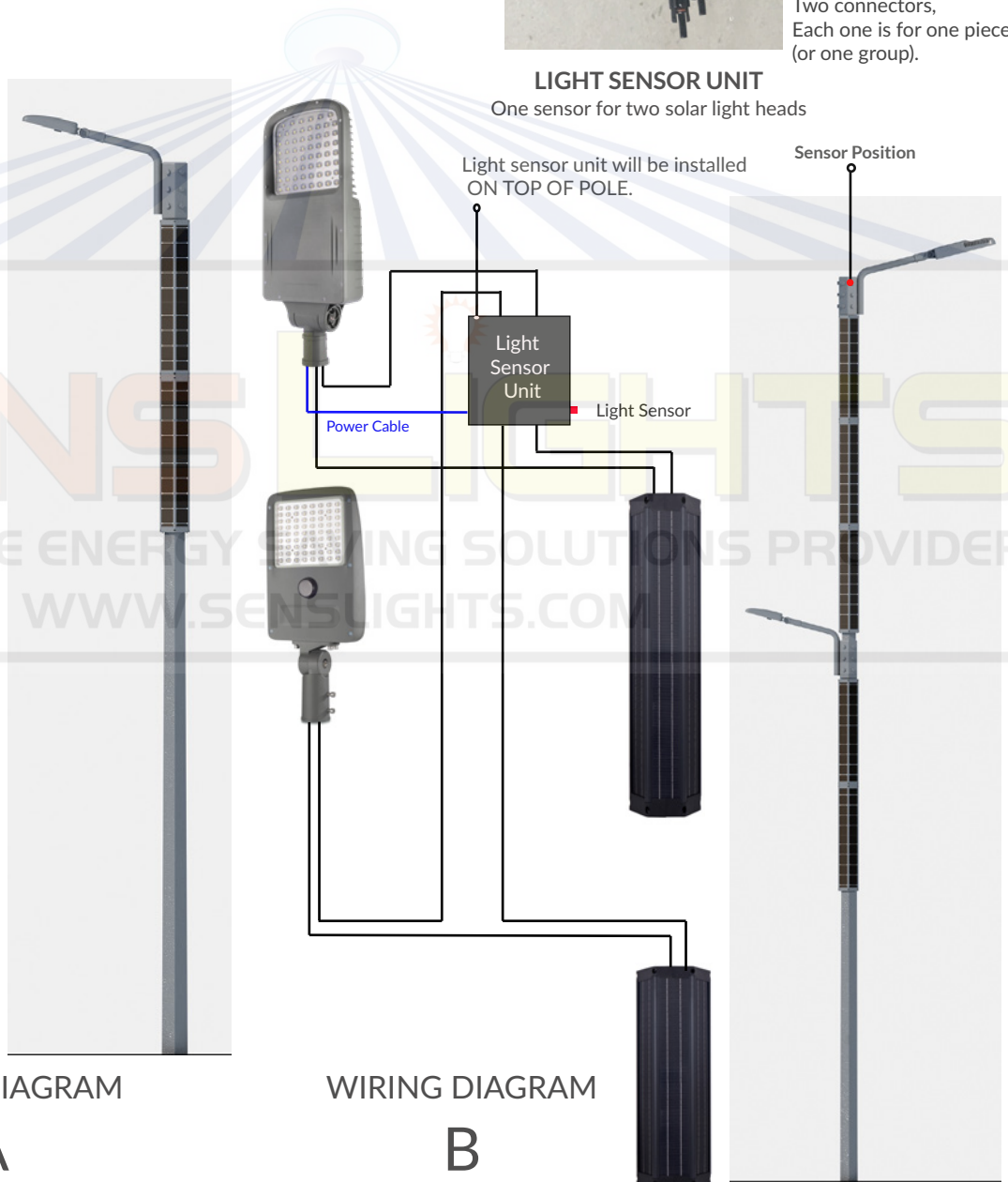
### LIGHT SENSOR UNIT

One sensor for two solar light heads



WIRING DIAGRAM

A



WIRING DIAGRAM

B