

SOLAR WIRELESS BEAM DETECTOR

INSTALLATION GUIDE



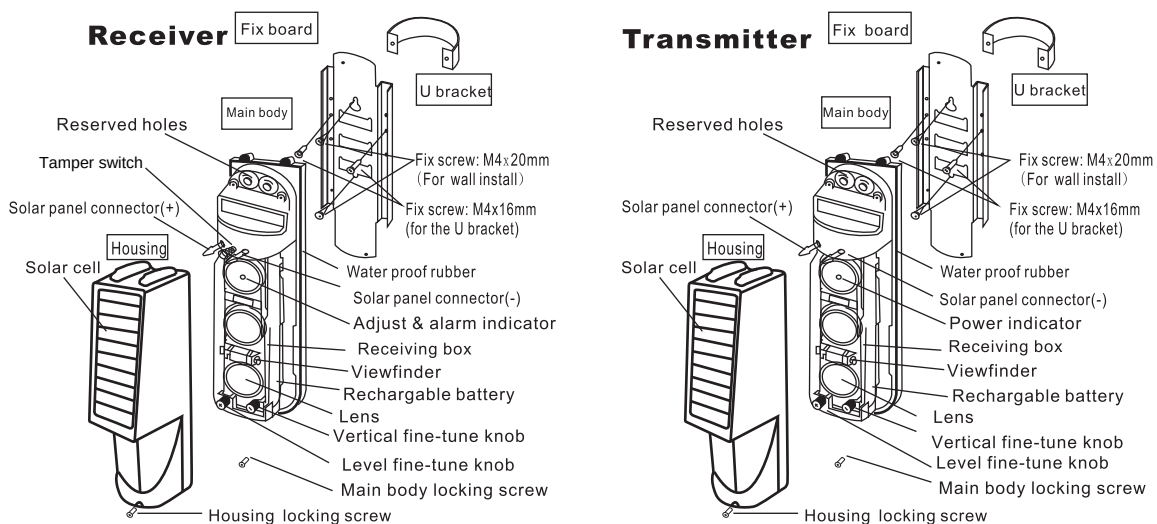
5SW(5m)
10SW(10m)
30SW(30m)
60SW(60m)
100SW(100m)

 **Caution:** Thanks for your purchasing this product; Please Read this manual carefully before using

This product can sense illegal entering and sound an alarm, but it cannot prevent the burglary and other disasters.

1. Our company will not be responsible for the losses caused by negligence, abuse, natural disaster, lightning or use not in accordance with the user's manual.
2. There are copyright contents of our company in this user's manual, so you may not copy without our company's permission, meanwhile, please store it appropriately.
3. The guarantee period is 12 months since production date.
4. Our company will be responsible for repairing or replacing the damaged parts caused by product quality within the period of guarantee. This warranty does not cover the other damages or following provisions.
 - Damages caused by improper use
 - Damages caused by repair or replacement of our company
 - Damages caused by natural disaster etc force majeure factor.
 - Malfunctions unrelated to this product.

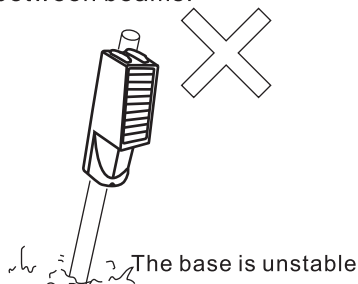
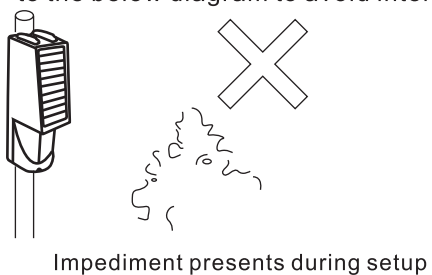
1. Part Name



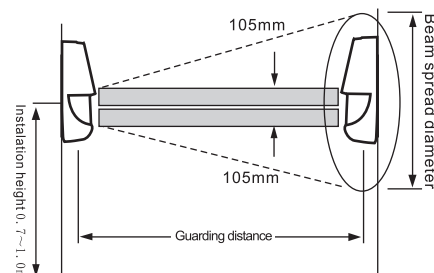
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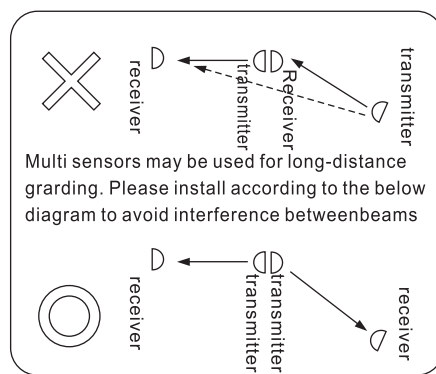
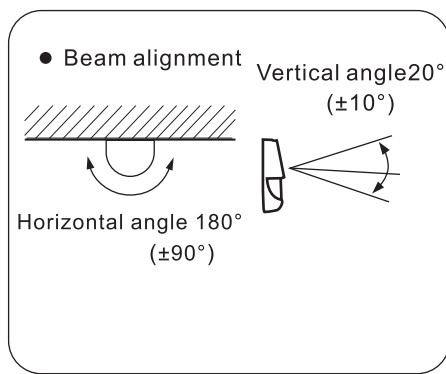
2. Precautions for setting

- Multi sensors may be used for long-distance guarding. Please install according to the below diagram to avoid interference between beams.

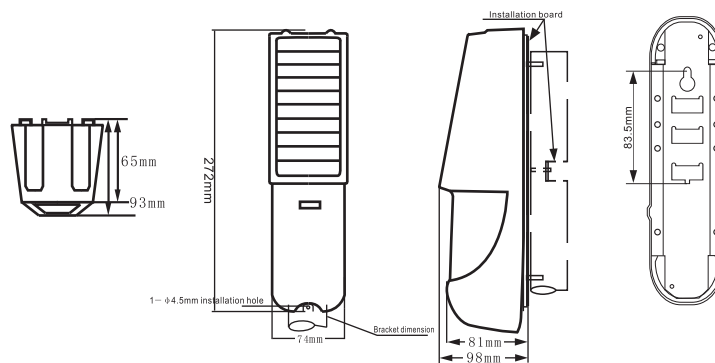


Model	Guarding distance	Beam spread diameter
5SW	50m	1.8m
10SW	10m	2.2m
30SW	30m	2.8m
60SW	60m	3.7m
100SW	100m	4.5m





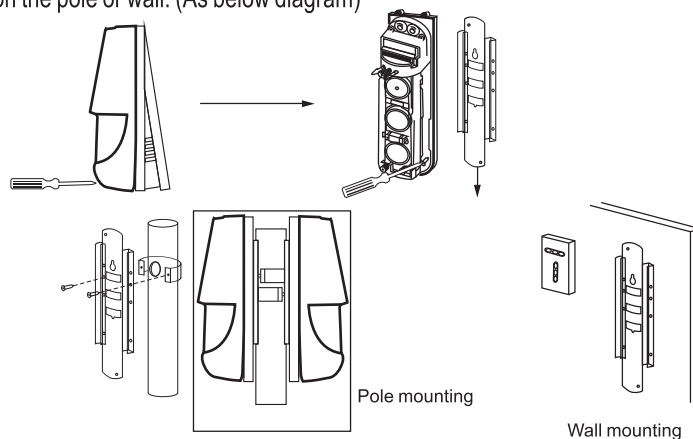
3. Parts dimension



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4. Installation of fixed bracket

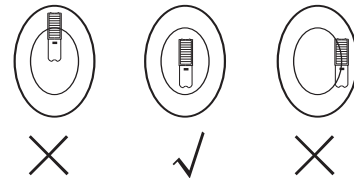
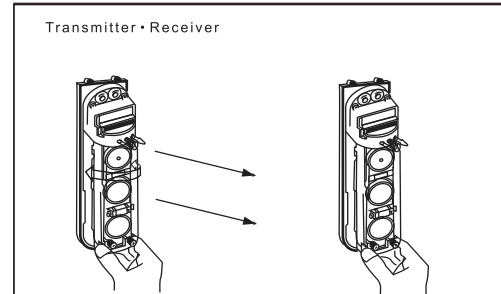
1. Loose the retaining screws on the housing and remove it. (As below diagram).
2. Insert the batteries onto the circuit board and the indicator will be flashing 5 secs to show it's working.
3. Loose the retaining screws on the mounting plate, then remove the mounting plate and do not touch the sensitive lens by hand, mount the mounting plate on the pole or wall. (As below diagram)



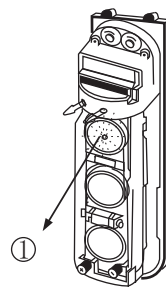
5. Optical axis adjustment

Note: Perform the optical axis adjustment for the transmitter and receiver due to the alignment of optical axis may bring a great change to sensitivity.

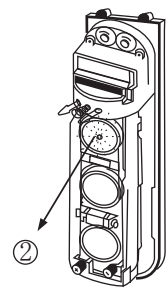
1. Rotate the bottom of lens on the receiver from left to right to ensure that the lens shall face to the transmitter correctly.
2. Rotate the bottom of lens on the transmitter from left to right to ensure that the lens shall face to the receiver correctly, align the optical axis to obtain sensitivity, secure the lens on the transmitter after aiming the transmitter towards the receiver through aiming unit.
3. Adjust the horizontal adjusting knob and vertical adjusting knob on the transmitter until you can see the receiver is located on the central position of aiming unit of transmitter through the aiming unit of transmitter. .
4. Adjust the horizontal adjusting knob and vertical adjusting knob on the transmitter until you can see the transmitter is located on the central position of aiming unit of receiver through the aiming unit of receiver.
5. When adjusted fine, the LED indicator of the receiver will be flashing for 10 secs and keep on for 5 secs then off. Check if working well- Block the beams between the transmitter and receiver the prearmed control panel will be alarming, the LED of receiver will be on for 3 secs and the flashing for matching again.
6. Cover the solar housing and fasten the screws to finish the installation.



- ① Power indicator, when power on it will flash for 5 secs then go off.
- ② Adjusting & Alarm indicator, when it receives infrared beam it will flash, if matches well, it will be on for 3 secs. When alarm it will be on for 5 secs and then go off.



Transmitter



Receiver

6. Physical test

Walking test is required after the setting, physical test in accordance to below diagram.

	State	Signal
Transmitter	Transmitting	Power on flash 5 secs then off
Receiver	Guarding	Flash 10 secs then on 3 secs then off
	In alarm	On for 5 secs then off
Control panel	In alarm	Sound alarm as setting

7. Maintenance

1. Replace battery

The battery using life is 2 years, please replace battery within the time.

2. Protect and Clean

The solar power panel might be dirty after long use, please keep checking and cleaning the panel in certain time to have the detector working well. (Note: Do not wet the circuit board when cleaning.)

8. Trouble checking

Fault	Cause	Solution
The LED of the transmitter doesn't light up	Battery power low or broken	Replace the battery
The LED of the transmitter doesn't light up	Battery power low or broken	Replace the battery
When 2 beams blocked simultaneous, the receiver indicator is on for 2~3 secs but no alarm signal output to the wireless control panel	① Abnormal signal receiver for the control panel ② The receiver is too far away from the control panel	① Check whether the detector has been studied to the zone of the control panel ② Place the control panel nearer to the receiver or add a signal repeater
There are always alarm signal output from time to time when nobody block the beams	① There are obstacles between the transmitter and the receiver ② The base on which the bracket mounted is not steady ③ The transmitter and receiver not match well	① Remove the obstacles ② Remount the transmitter and receiver to steady base ③ Re-adjust the beams

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9. Technical parameters

Model	5SW	10SW	30SW	60SW	100SW			
Alert distance (Outdoor)	5m	10m	30m	60m	100m			
No. Of beams	2 beams							
Detection mode	2 beams blocked simultaneous							
Optical source	Infrared digital pulse beam							
Response speed	50msec							
Alarm output	Wireless RF alarm signal							
Power supply	Solar power charged lithium battery							
Power consumption	≤0.4mA on the transmitter, ≤0.4mA on the receiver							
RF frequency	433MHZ/315MHZ ASK							
RF transmission	Up to 500m in the open space							
Operation temperature&humidity	-25℃~55℃ 5%~95%RH(relative humidity)							
Dimensions	Refer to its diagram							
Recharge currency by solar board	≥1mA under 1600Lx(More than 2000Lx in normal cloudy day)							
Optical axis adjustment(H,V)	180° H (± 90°) , 20° V (± 10°)							
Protection against dew, frost	Calefaction housing(optional)							
Material	PC Resin							
Net weight	1000g(transmitter + receiver)							