

Solar-Powered Triple-beam Photoelectric Detector



INSTALLATION GUIDE

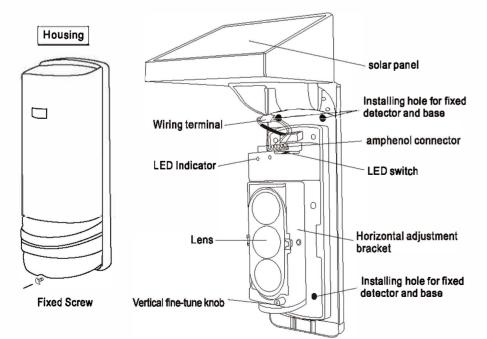
Introduction

Solar-powered Triple-beam wireless detector is a new environment-friendly & high technology product. It uses solar energy to charge & work, and use wireless signal transmission to achieve the transmission of alarm signals. It is a truly wire-free and maintenance-free product. It is primarily used to perimeter monitoring and protection.

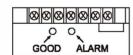
Dear customer, thank you for purchasing our company's Solar-powered Three-beam wireless Detector, For using the product correctly, before using this product, please be sure to read the instructions carefully.



Name of Components

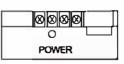


LED Indicator



Receiver

- "GOOD"Indicator (GREEN)
 Light up when received the signal from transmitter,
 light off when no signal received
- "ALARM"indicator light(RED)
 when alarm the light will light up for 5 seconds

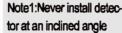


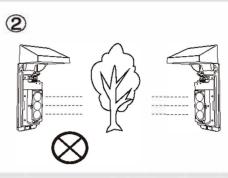
Transmitter

power (green)light up when transmit

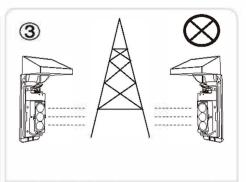
02 Installation Precautions



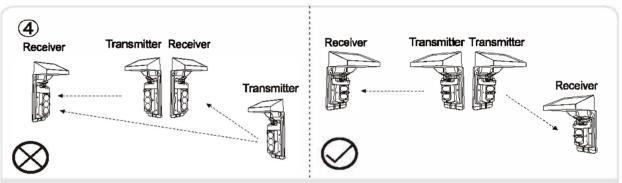




Note2:Make sure that there is no obatacle between the detector



Note3: The hitgh-voltage tower and the signal tower may influence wireless transmission distance



Note4:Multiple detectors shall be installed for long-distance alarm in accordance with the installation instructions shown in the above-mentioned figure to avoid mutual interference among beams

Other Precautions

- 1. Never install this detector in door access systems, passages, areas prone to trigger an alarm, or areas which could trigger an alarm more than 50 times per 24 hours.
- 2.This detector is a solar-powered wireless product, so it shall not be in stalled, tested or operated indoors or in any dark place with a sunlight intensity of less than 2000lux(raining days with 2000lux sunlight intensity).
- 3. This product can trigger an alarm times less than 50 times under normal sunlight conditions.
 Never try to test maximum alarm times indoors, otherwise, it may cause batteries subject to low voltage problem, which may impede operation of this product, and even cause damage to this product.
- 4. If it is your first time to use this kind of detector, please install it under the guidance of supplier.



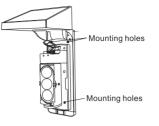
If the detector not in use for long time and the battery run out, lead to the detector fail to boot correctly, please refer to the following information:

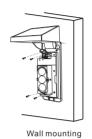
- 1. Put the detector under the sun UV, charge for more than 5 hours
- 2. Or connect the external DC12Vpower, charge for more than 3 hours

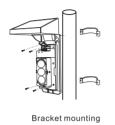
03 Installation Method

- 1.Remove the housing locking screw and remove the housing to reveal the inner mounting hole
- 2. Fix the detector to a wall or bracket and screw the four mounting holes
- 3.Connect the two wire connectors to each other and start debugging.
 After debugging, cover back the housing.



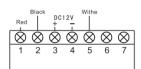








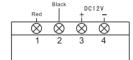
Wiring diagram



Receiver



Standby external power supply (DC12V)Charging port



Transmitter



Standby external power supply (DC12V)Charging port

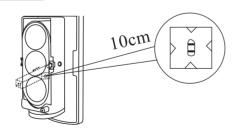


Adjustment

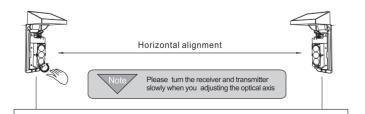
1.Adjust the vertical adjustment screw and the horizontal angle adjusting wheel, obverse the collimation effect at a distance of 5cm from the viewfinder, in order that image of opposite detector falls into the center part of the viewing hole. At this time, the Good indicator of receiver shall light up; If not, adjust it repeatedly.

The best way to adjust the optical axis

- 1.To alignment the transmitter and receiver.
- 2. Turn the receiver left, until the GOOD indicator flashing, and mark down the angle. Then turn the receiver right, until the GOOD indicator flashing, and mark down the angle. The best optical axis point is the center point of that 2 angle.
- 3.In the same way to adjust the transmitter.



Observe the aiming effect about 10cm away from the sight



06 Physical test

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

	State	表示	
Transmitter	Transmitting	Green LED light up	
Receiver	Guarding	GOOD indicator light up,ALARM indicator lights out	
	In Alarm	GOOD indicator lights out,ALARM indicator light up	

07 Check For Abnormality

Fault	Cause	Solution	
The receiver does not alarm, but the	The host is not armed.	Arm the host by remote control, and then trigger an alarm	
Alarm lamp light up	The detector has not been learnd with the host	Keep the detector learn with the host	
	The beam doesn't match closely	Re-adjust the beam	
The receiver GOOD lamp doesn't light up	There is obstacle presents between the transmitter and the receiver	Remove the obstacle	
	The cover is polluted	Clean the cover	
	Broken circuit or short-circuit of the wiring	Tighten the wire	
The detector does not	The optical axis coincidence accuracy is inadequate	Re-adjust the optical axis	
normally work when powered on	The battery voltage of detector is too low Automatically transferred to the battery protection status	Put the detector under the sunshine or access DC12V power supply charge (spare charging port see wiring diagram)	
The Alarm lamp doesn't light up ,when the beams be covered	There is other signal of transmitter come into the receiver	Remove the other signal of transmitter or change the optical axis direction	
bealtis be covered	The beams doesn't be coverd at the same time	To cover the beams at the same time	
Intermittent alarm	Beams blocked by other moving objects	Remove the obstacle or change the location	
signal output	The optical axis coincidence accuracy is inadequate	Re-adjust the optical axis (See Section 6 for the best way to adjust optical axis)	

08 Technical parameters

Outdoor	100m	150m	250m	
Indoor	300m	450m	750m	
3 beams				
3 beams blocked simultaneous				
Infrared digital pulse beam				
200ms				
Wired and wireless compatible, wired output contact capacity:DC24V 0.5Amax				
≤50 times/ Day				
3.2V				
DC12V				
Transmitting Terminal ≤ 0.5mA,Receiving Terminal ≤ 0.3mA				
≥2mA at a light intensity of 1800LX (Note: The outdoor light intensity in cloudy or rainy days is about 2000LX)				
FM433MHZ,315MHz, can be customize other Frequency				
500mAh(Transmitting Terminal)1000mAh(Receiving Terminal)				
Rechargeable lithium battery				
-25°C~+55°C				
180° (±90°)				
±20°				
	Indoor 3 b II Wired and wireless Transmitting Te (Note: The outdo FM433MHZ,3 500mAh(Trans	Indoor 300m 3 be 3 beams blocke Infrared digita 200 Wired and wireless compatible, wired of ≤50 tim 3.3 DC Transmitting Terminal ≤ 0.5mA ≥2mA at a light int (Note: The outdoor light intensity in or FM433MHZ,315MHz, can b 500mAh(Transmitting Terminal Rechargeable -25℃ 180° (Indoor 300m 450m 3 beams 3 beams 3 beams blocked simultaned Infrared digital pulse bear 200ms Wired and wireless compatible, wired output contact capacit ≤50 times/ Day 3.2V DC12V Transmitting Terminal ≤0.5mA,Receiving Terminal ≤0.5mA,Receiv	