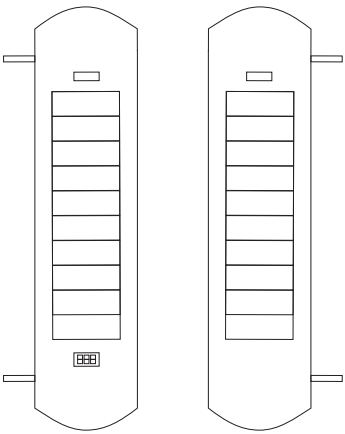
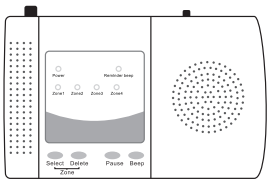
Wireless Driveway Alarm System

User Manual



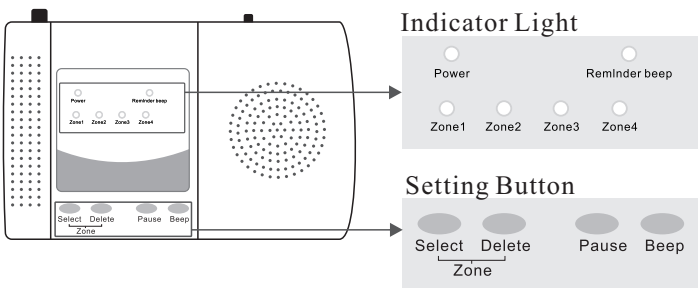


1. Configuration List

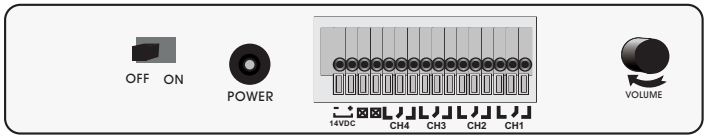
Alarm Receiver	1 piece (includes 1 set installation accessories)
Solar&Wireless Photoelectric Beam Sensor	1 pairs (includes 1 set installation accessories)
English Manual	1 piece

Note: The alarm system has been programmed already,please operate the system according to the part 3 of the manual;
If you want to add additional beam sensor to the system or connect our system to other alarm system,please operate the system according to the part 4 of the manual or contact us directly;
After-sale Service:
E-mail:wda@redlite.nz

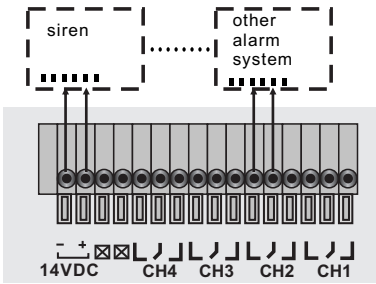
2. System Components And Usage



Power: Power indicator(will be red if powered on)
Reminder beep: The indicator of "Reminder beep" will be red if you press the "Beep" button once(the alarm receiver has a bleep reminder every 3 minutes if the detector was triggered)
Zone1-Zone4: Total 4 wireless zones(each zone has special alarm tone)
Select: Used to select zone number and connect the detector to the alarm receiver
Delete: Used to delete the detectors of the alarm receiver
Pause: Used to enable the "disarming" function(will not alarm if the detectors be triggered)
Beep: Used to enable or disable the "Reminder beep" function



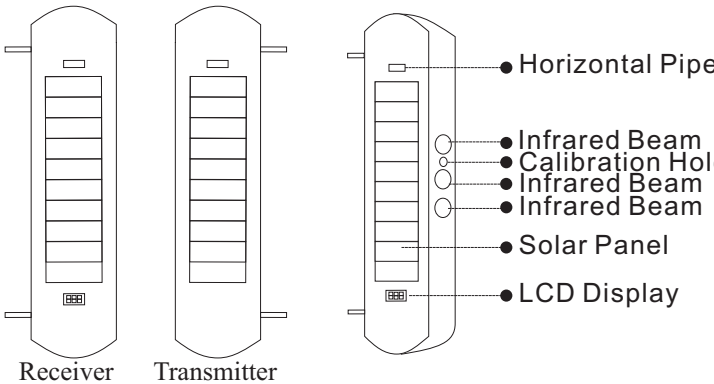
ON/OFF: power switch(turn on/off the alarm receiver)
POWER : power jack(DC12V-15V)
VOLUME : adjust the alarm volume of the alarm receiver

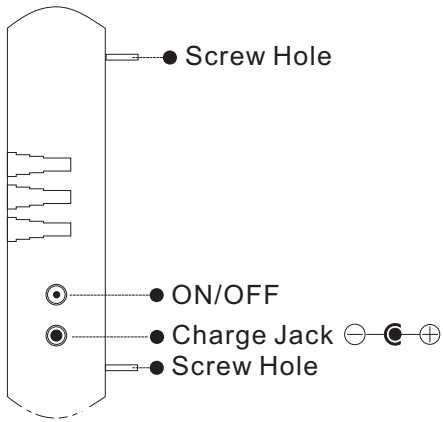


Output Interface

14V DC: used to connect extra siren
CH1-CH4: relay outputs(normally open or normally close optional); used to connect to other alarm system(CH1-CH4 corresponding to Zone1-Zone4;relay output rating is DC24V or exchange 120V2A current)

Solar & Wireless Photoelectric Beam Sensor



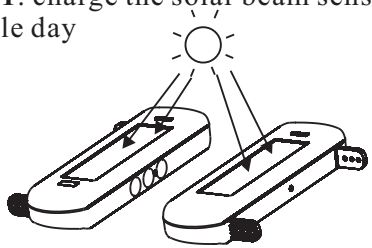


Horizontal Pipe: easy to know the beams be installed vertically
Infrared Beam: used to detect the intruder
Calibration Hole: easy to align with another beam sensor if the beams apart far away
Solar Panel: charge the battery of the beam sensor even in cloudy or rainy days
LCD Display: easy to know how well the beam sensor be aligned with each other
ON/OFF: turn on/off the solar beam sensor
Charge Jack:pull out the red plug to charge the solar beam sensor by DC5V-12V power adapter if the battery of the beam sensor go flat
Screw Hole: used to fix the installation accessories

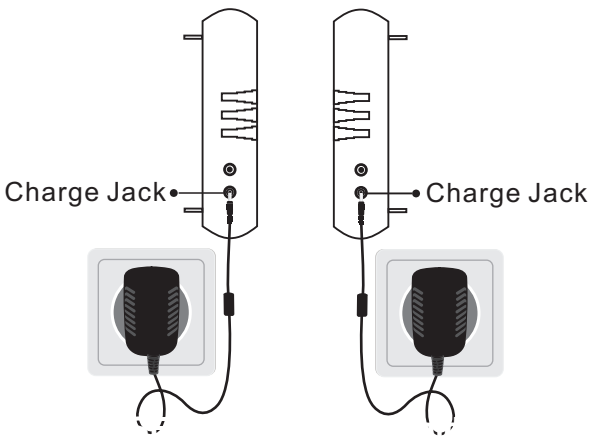
3. Operation Instructions

Step 1

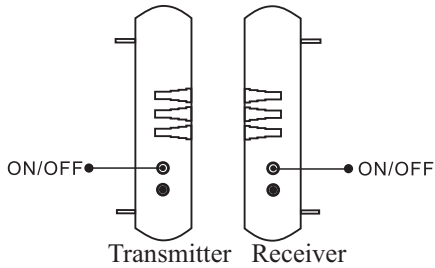
Charge the solar beam sensors before use
Method 1: charge the solar beam sensors by the sunlight for a whole day



Method 2: pull out the red plug to charge the solar beam sensors for 4 hours by the DC5V-12Vpower adapter(the power adapter of the alarm receiver is available)please insert the red plug back to the charge jack after charging.

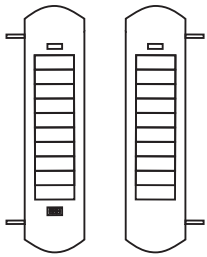


Step2:
Turn on the Solar&Wireless Photoelectric Beams:
Press the ON/OFF button 3 times(Both the transmitter and receiver)



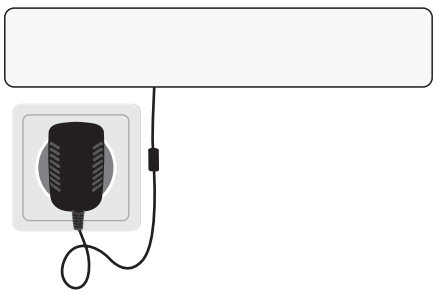
(more than 3 short beeps mean the built-in batteries of the sensor have enough power)

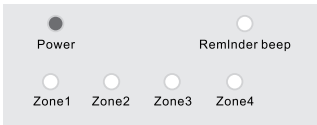
Step 3
Make sure the beams aligned with each other



(bleep prompt and LCD display more than "100" means the beam sensors work properly, Please note: "100" is a reference value, different weather will get different value and bigger value means better alignment)

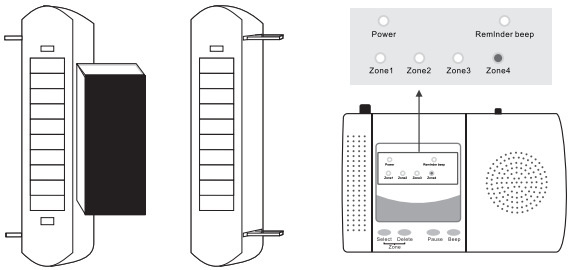
Step 4
Power on the alarm receiver by the power adapter and turn on the alarm receiver





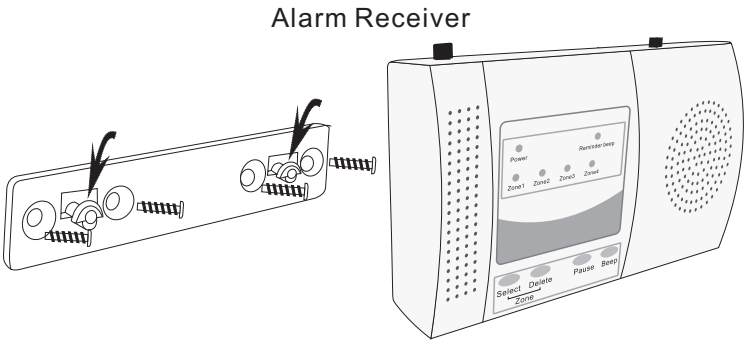
(bleep prompt and "Power" indicator light up means work normally)

Step 5
Trigger The Solar&Wireless Photoelectric Beam Sensor (Completely block all the 3 infrared beams by thick materials,such as books)

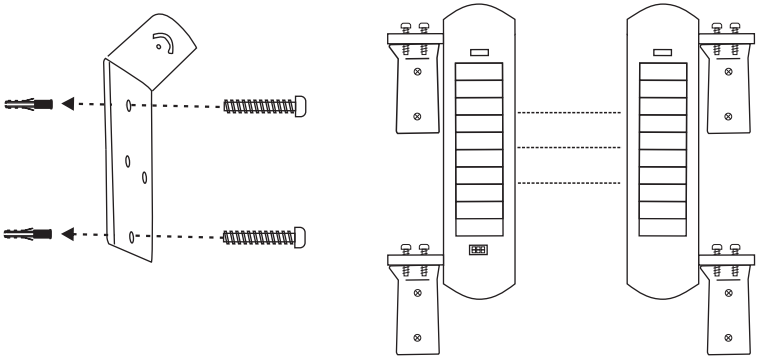


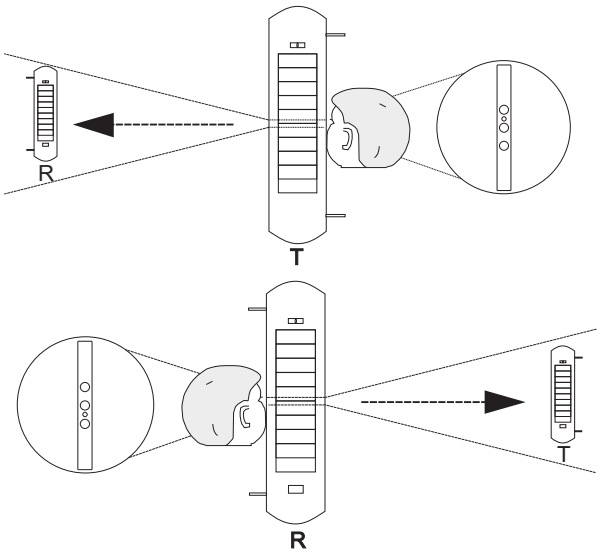
(LCD display "000" means the beam sensor be triggered and alarm receiver alarms--Zone 4 light up)

Step 6
Installations



Solar&Wireless Photoelectric Beam Sensor
1st Installation method



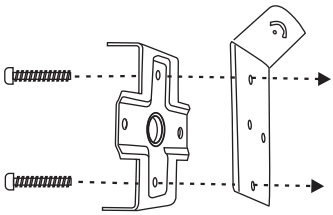


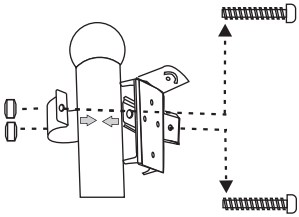
Calibration

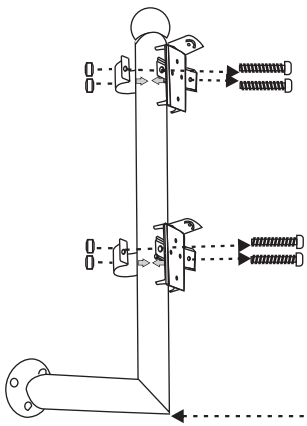
(1)Place the beam sensor on the same height.
(2)Ensure the beam sensor is vertical
(the bubble of the horizontal pipe should be in the middle).
(3)Adjust the direction of the beam sensor to make them align with each other.
Calibration Hole : used to find another device.
LCD Display : used to know how well the beam sensor be aligned with each other (the LCD Display will shut down in an hour).
(4)bleep prompt and LCD display more than “100” means the beam sensors work properly,Please note: “100” is a reference value, different weather will get different value and bigger value means better alignment
(5)Tighten the screws to ensure the position and direction will not be moved easily.

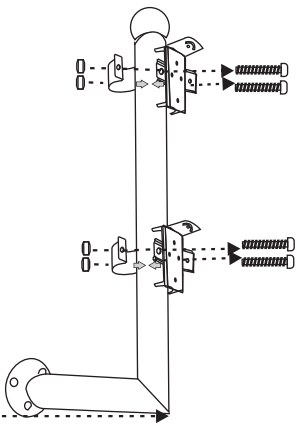
2nd Installation method(with iron brackets)

Please note:the package not includes the iron brackets



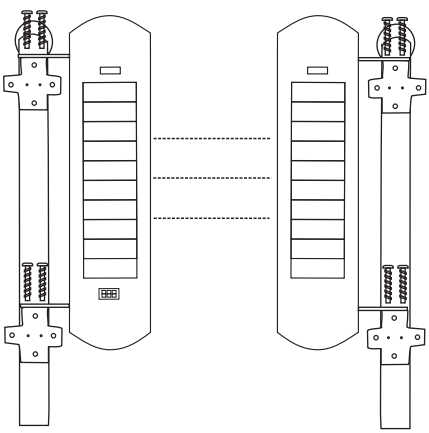


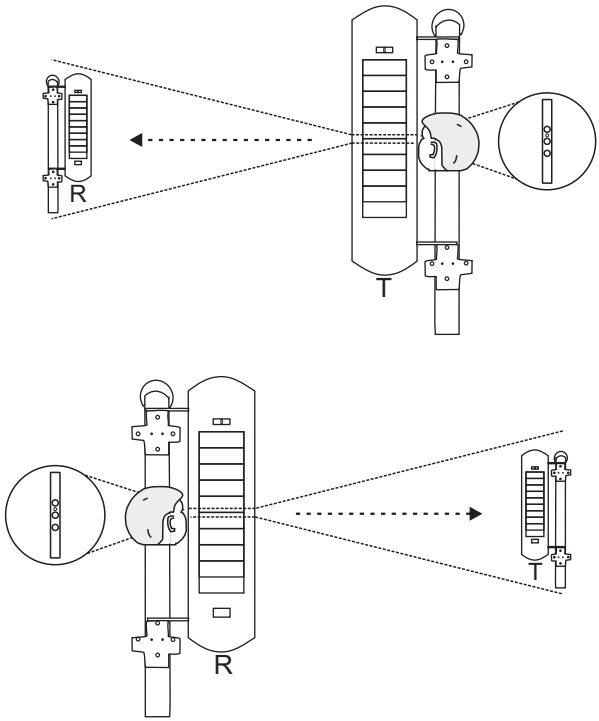




Iron Bracket

Iron Bracket



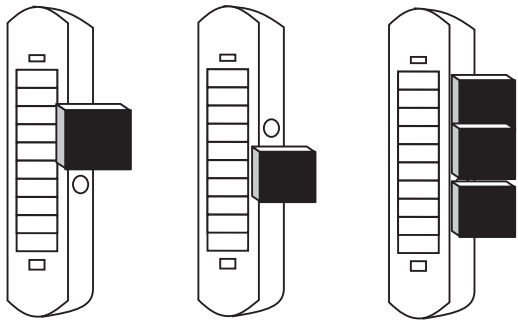


Calibration

(1)Place the beam sensor on the same height.
(2)Ensure the beam sensor is vertical
(the bubble of the horizontal pipe should be in the middle).
(3)Adjust the direction of the beam sensor to make them align with each other.
Calibration Hole : used to find another device.
LCD Display : used to know how well the beam sensor be aligned with each other (the LCD Display will shut down in an hour).
(4)bleep prompt and LCD display more than “100” means the beam sensors work properly,Please note: “100” is a reference value, different weather will get different value and bigger value means better alignment
(5)Tighten the screws to ensure the position and direction will not be moved easily.

Step 7
Test and verify the alignment
Block the infrared beams by thick materials(such as books)
(1) Block only top 2 beams---No Alarm
(2)Block only bottom 2 beams---No Alarm
(3)Block all 3 beams---Alarm

The same way to test and verify another sensor



4. Other Settings

(1)How to add/delete detectors to the receiver

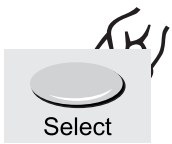
ADD

Step 1

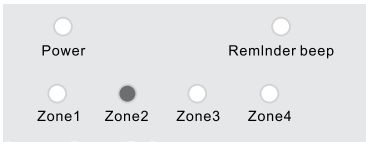
Power on the alarm receiver and turn on the alarm receiver

Step 2

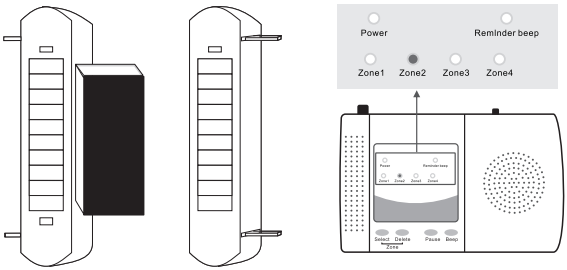
long time press the “Select” button and release the button when the “Zone” indicator light up(for example, we selected the zone 2) ;
total 4 zones,and the “Zone” indicator will light up one by one if you long time press the “select” button;







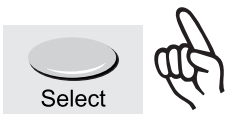
Step 3
Trigger the detector(for example,trigger the solar&wireless photoelectric beam sensor)

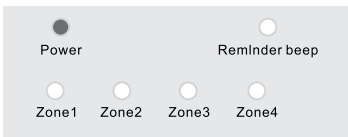


The indicator light of the the selected zone will blink and bleep prompt(that means the operation was successful)

Step 4
Long time press the “select” button and release the button when the“ Power”indicator light up







Step 5
Trigger the detector again to verify that the detector has been added to the receiver

DELETE

Step 1: Power on the alarm receiver and turn on the alarm receiver
Step 2: long time press the “Select” button and release the button when the “Zone” indicator
light up(which zone the detector will be deleted) ; total 4 zones, and the “Zone” indicator will light up one by one if you long time press the “select” button;
Step 3: Long time press the “Delete” button
Step 4: The indicator light of the the selected zone will blink (that means the operation was successful)
Step 5: Long time press the “select” button and release the button when the“ Power” indicator light up

(2)How to enable or disable the “disarming” function

Enable

Power on the alarm receiver and turn on the alarm receiver
Long time press the “Pause” button and release the button when the “Power” indicator light blink(the alarm receiver will not alarm for 5 minutes even if the detector be triggered) ;

Disable

Long time press the “Pause” button and release the button when the “Power” indicator light not blink Or the receiver will disable the “disarming“ function automatically after 5 minutes

(3)How to enable or disable the reminder beep function

Enable

Power on the alarm receiver and turn on the alarm receiver
Press the “Beep” button once,and the “Reminder Beep” indicator light up means the operation was successful.(the alarm receiver has a bleep reminder every 3 minutes if the detector was triggered)

Disable

Press the “Beep” button once again,and the “Reminder Beep” indicator light turned off means the operation was successful.

(4)The output interface wiring method(Normally Close or Normally Open optional)

1.press the corresponding button on the end. (Figure 1)
2 .insert the cables to the interface. (Figure 2).
3.release the button and the cable will be automatically withhold.
4.gently pull the cable to test if cable is fastened.

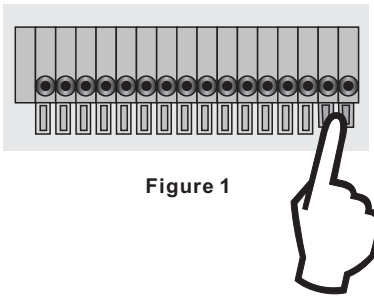


Figure 1

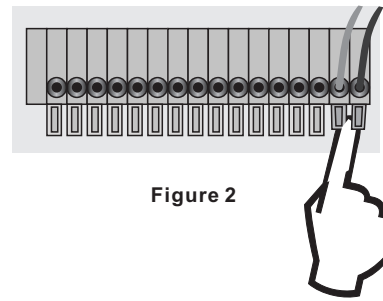


Figure 2

(5)How to program the sensitivity of the solar beams

Sensitivity of the solar beams divided into 2 types: 200ms (factory default) and 100ms

Please follow up the operation steps if you want to switch the sensitivity of the beams to be 100ms

Step 1: Turn on the solar beams by press the ON/OFF button 3 times (both the transmitter and receiver)

Step 2: Long time press the ON/OFF button for 10 seconds and release the button when you hear bleep prompt,and then press the ON/OFF button 6 times quickly(operate the transmitter first,and then operate the receiver)Note: if switch the sensitivity of the beams back to factory default (200ms), press the ON/OFF button 5 times

Step 3: Make sure the solar beams aligned with each other

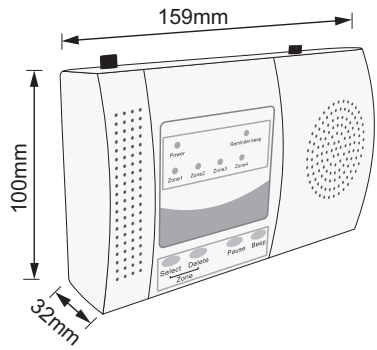
Step 4: Long time press the ON/OFF button for 10 seconds and release the button when you hear bleep prompt(only the receiver)

Step 5: Press the ON/OFF button 4 times(only the receiver)

Step 6: Program successfully when you heard 6 times bleep prompt

5. Technical Parameters

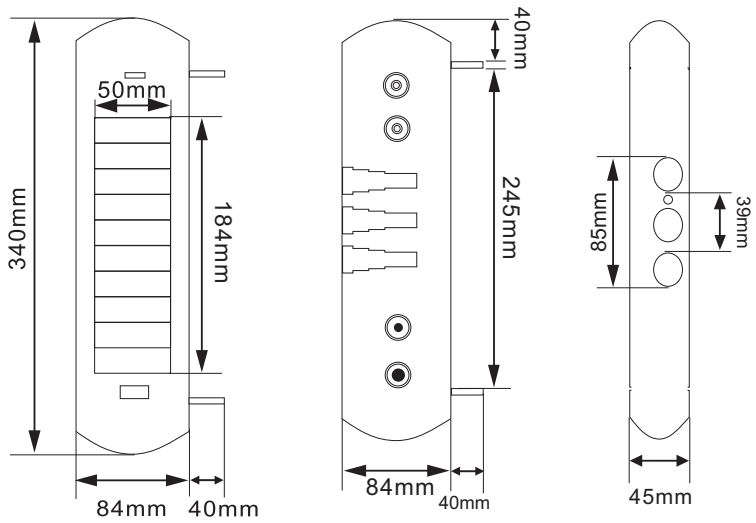
Alarm Receiver



Technical parameters

Item	Technical Parameters
Working Voltage	DC12- 15V
Working Current	Static Current 20mA;Alarming Current 180mA
Wireless Frequency	433MHz FSK+FHSS
DC14V Output Current	Maximum 400mA
Relay Output Rating	DC24V/AC120V at 2A

Solar&Wireless Photoelectric Beam Sensor



Technical parameters

Item	Technical Parameters
Infrared Detection Range	100m(300 feet)
Wireless Transmission Range	1KM(3000 feet)
Beam Quantity	3
Wireless Frequency	433MHz FSK+FHSS
Maximum Trigger Number In 24 Hours	≤200 times
Working Voltage	3.3V
Battery Type	Chargeable LiFePO4 Battery
Battery Capacity	Transmitter: 500mAh, Receiver: 500mAh
Static working Current	≤0. 5mA
Infrared Wavelength	940nm±20nm
Solar Panel Output Current	1800Lux illumination levl: ≥2mA (Remarks:The outdoor illumination intensity on rainy days is about 2000Lux)
Working Temperature Range	-30℃~70℃