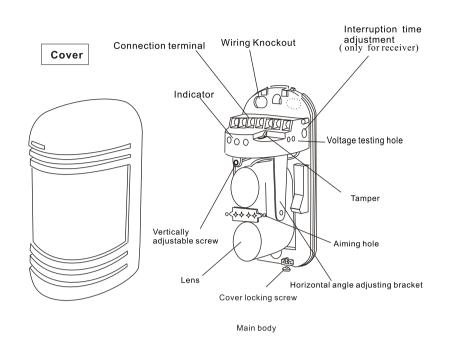
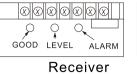
PHOTOELECTRIC DUAL BEAM DETECTOR

Manual

1 PARTS DESCRIPTION

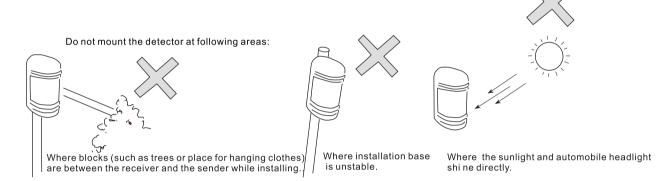


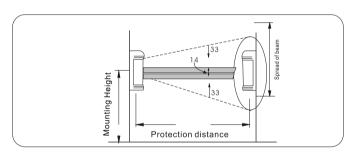


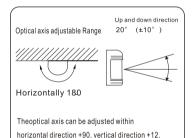


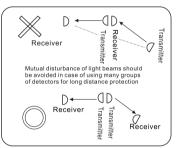
- O POWER
 Transmitter
- LEVEL indication lamp (red) Brightness varies, depending on incident level.
- ALARM (red) On indicated alarm
- GOOD indication lamp (green) is ON when beams are aligned, OFF when beams are not aligned.
- (1) Power (green) when the light beam transmitting, the indicator
- (2) Use it when adjust the precision of the optical axis (Refer to the operation instruction)
- (3) Use it when set interruption time (Refer to the operation instruction)

2 Setting notice

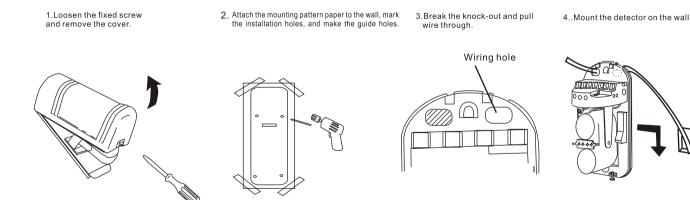


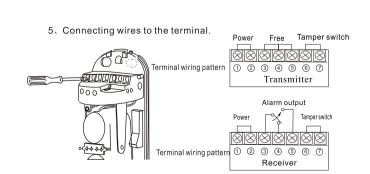




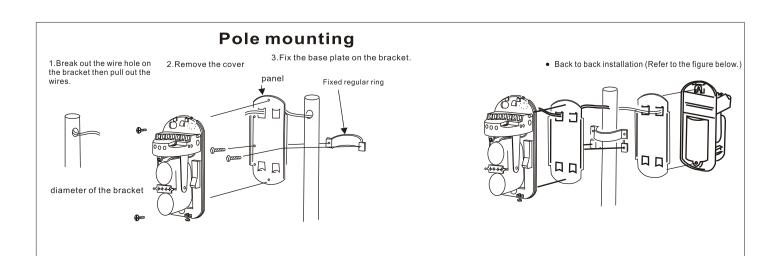


3 Setting Method



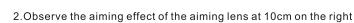


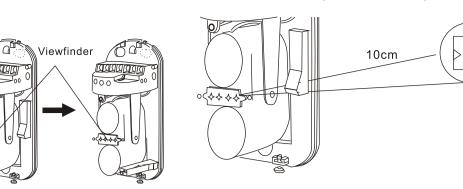
The wiring distance		
Diameter	DC12V	DC24V
0.5mm² (Diameter 0.8)	300m	600m
0.75mm ² (Diameter 1.0)	400m	800m
1.25mm ² (Diameter 1.2)	700m	1400m
2.0mm ² (Diameter 1.6)	1000m	2000m



4 Beam Adjustment

1.Remove the cover, put through power.





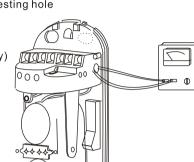
3. Adjust the horizontal adjusting angle screw and horizontal angle adjusting bracket to let the opposite detector in the center of sight lens. The GOOD indication lamp should be on. (Adjust the light axis continuously if the indication lamp is not on.)

Vertically adjusting screw
To raise To lower

Horizontal adjusting bracket

The brighter is red LEVEL indicator light, the higher of the precision of the light axis.

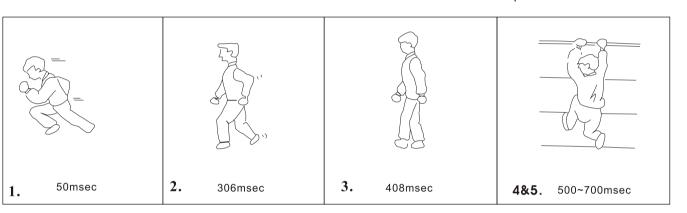
- The best method of the optical axis adjustment- test the output value of the testing hole
- 1.Insert the multi-functional plug to the testing hole (Pay attention to the polarity)
 2.Adjust the horizontal angle and vertical angle until the testing hole's voltage
- 3.If 1.2v or above voltage cannot be acquired, the transmitter and the receiver should be readjusted.



5 Beam interruption time adjustment



Beam interruption time selection



6 Operation confirmation

After installation, confirm correct operation by suitable walk tests. Refer to the LED indication of the right form during the walking test.

	Condition	Indication	
Transmitter	Transmitting	Green LED is ON	
Receiver	Watching	GOOD-LEVEL Indication is ON	
, , , , , , , , , , , , , , , , , , , ,	Alarm	Alarm indication lamp is ON	

7 Troubleshooting

Symptom	Possible Cause	Remedy	
Transmitter LED dose not light.	Improper voltage supplied.	Check the power supply and wiring	
Receiver LED dose not light.	Improper voltage supplied.	Check the power supply and wiring.	
Alarm LED dose not light, even when beams are blocked.	Beams are reflected to the receiver by other objects.	Remove the reflecting object or change optical axis direction.	
when beams are blocked.	2. 2 beams are not interdicted simultaneously.	2. Shade 2 beam	
	3. Shading light time is too short.	3. Prolong the shading time.	
When the beams are blocked, the receiver LED lights is ON ,but not alarm.	1. Wring is short circuit.2. Wiring point is not good.	Checking wiring and connection spot.	
The alarm indication lamp of receiver is always on.	1. Optical axis is not properly adjusted. 2. There are blocks between the transmitter and receiver. 3. The detector cover or strained slick are dirty.	Adjust the optical axis. Remove the blocks. Polish with the soft cloth.	
Intermittent alarm	 Bad wiring. Fluctuant power supply / voltage. Movable blocks between the transmitter and the receiver. The installation base is unstable. Blocked by other moving objects. 	 Check wiring. Check the power supply. Remove the blocks or relocate. Fix the mounting. Adjust the optical axis. Adjust shading time or change installing position. 	

8 Specification

	Outdoor	30m	60m	80m	100m	
Range	Indoor	90m	180m	240m	300m	
Beam chara	acteristics	I	Pulsed infrared dual beams			
Interruption	period	50~700msec(selectable)				
Powerinp	ut	DC12~24V/AC11~18V				
Current co	onsumption	40mA max	55mA max	65mA max	65mA max	
Alarm per	iod	2Sec(±1)nominal				
Alarm out	put	Form C relay (AC/DC30V 0.5A max)				
Tamper swi	itch	N.C.Opens when cover is removed (receiver only)				
Operating ter	perating temperature -25℃~+55℃					
Environment	humidity	95% max				
Alignment a	ngle	±5° vertical,±90° horizontal				
Mounting)	Wall or pole				
Weight		300g(Both transmitter and receiver)				
Appeara	nce	PC Resin(Black)				