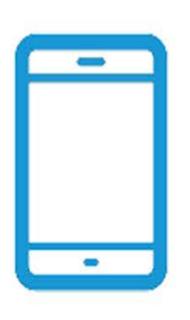
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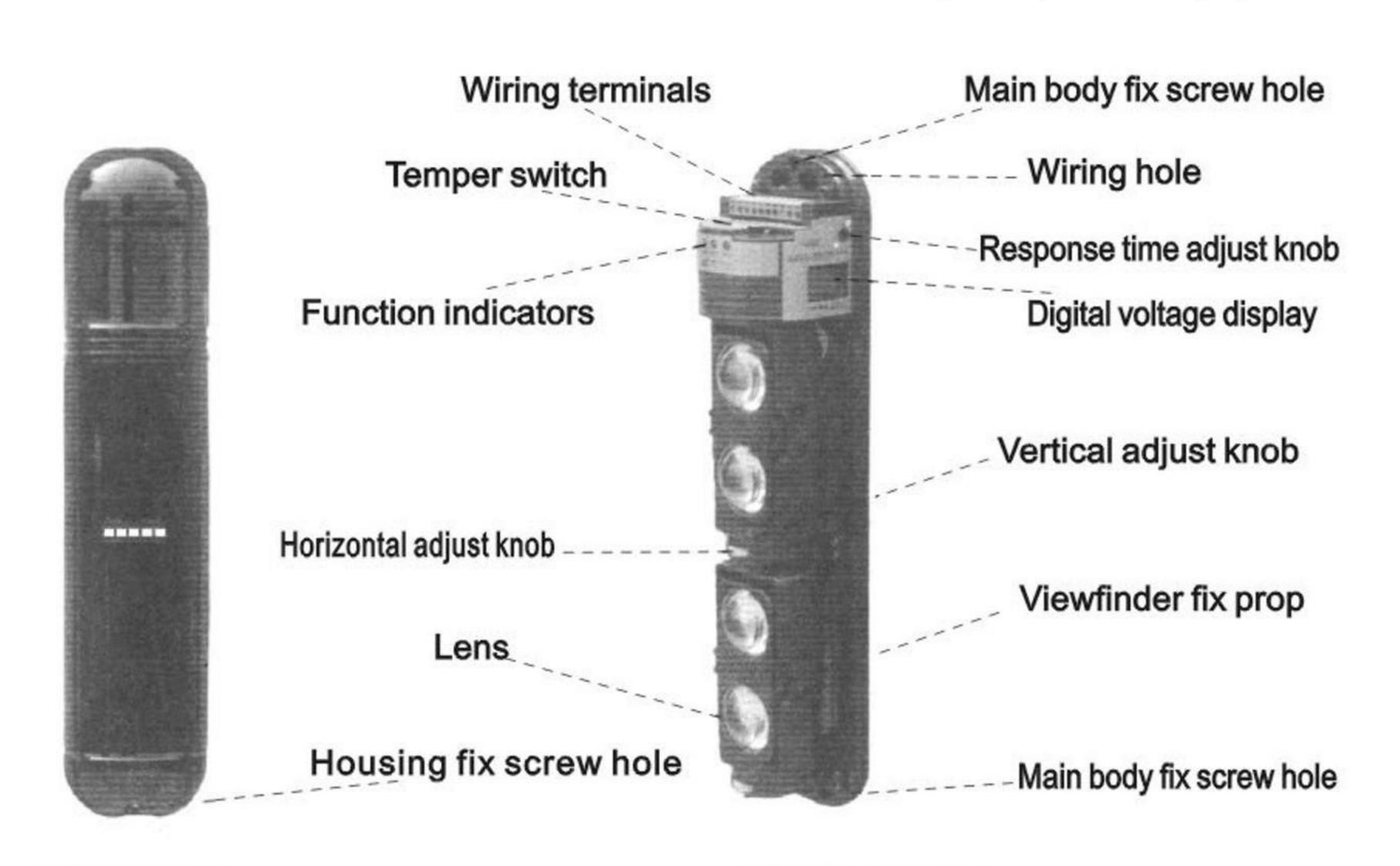
Quad Beam Sensor For Outdoors



1 Parts List
Check the parts inbox

- 1. Transmitter (1)
- 2. Receiver (1)
- 3. Manual (1)
- 4. Fix Board (2)
- 5. U Bracket (2)
- 6. M3*8mm Screw (6)
- 7. M4 x 35mm Screw (8)
- 8. Adjust Viewfinder (2)

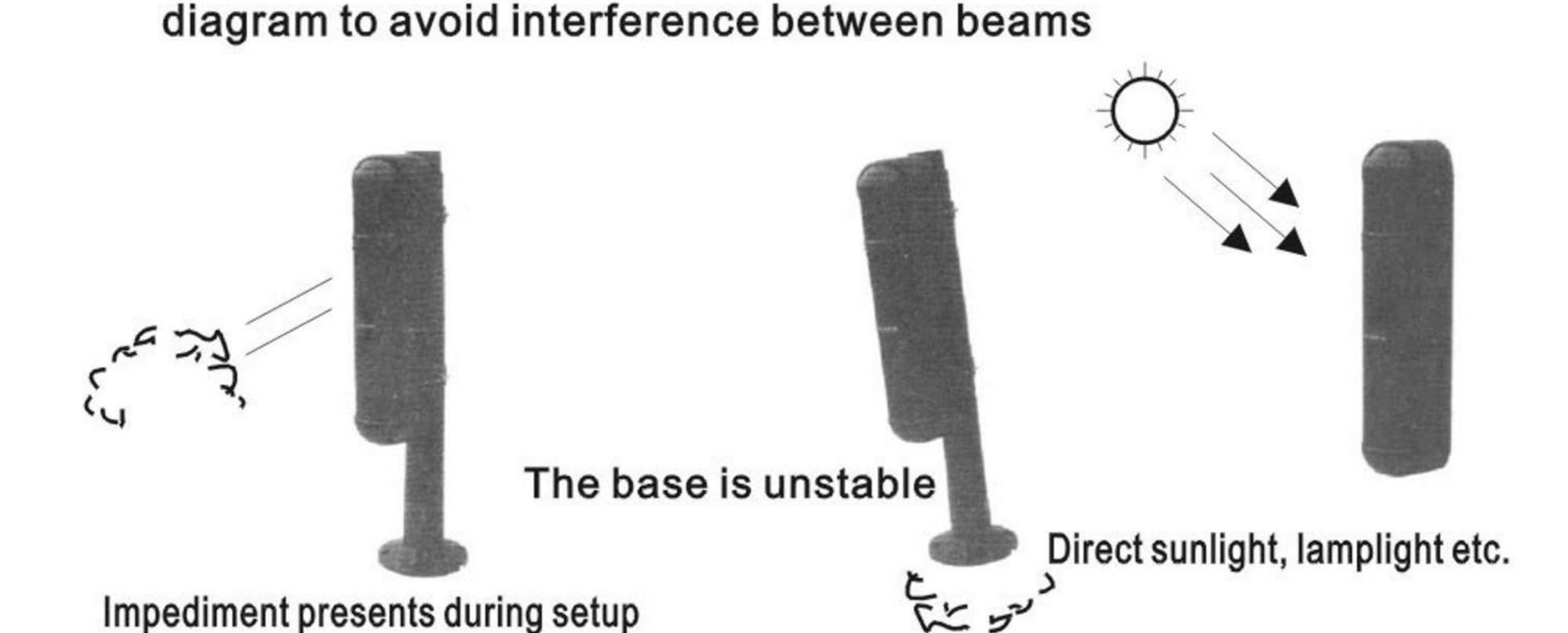
2 Part Name



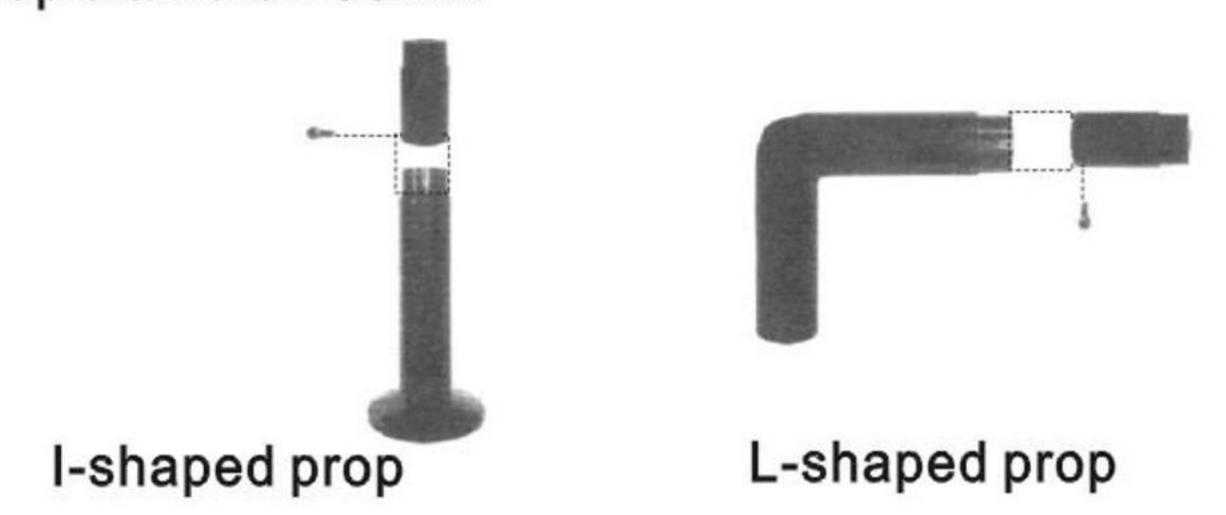
Housing Main Body

S Precautions for setting

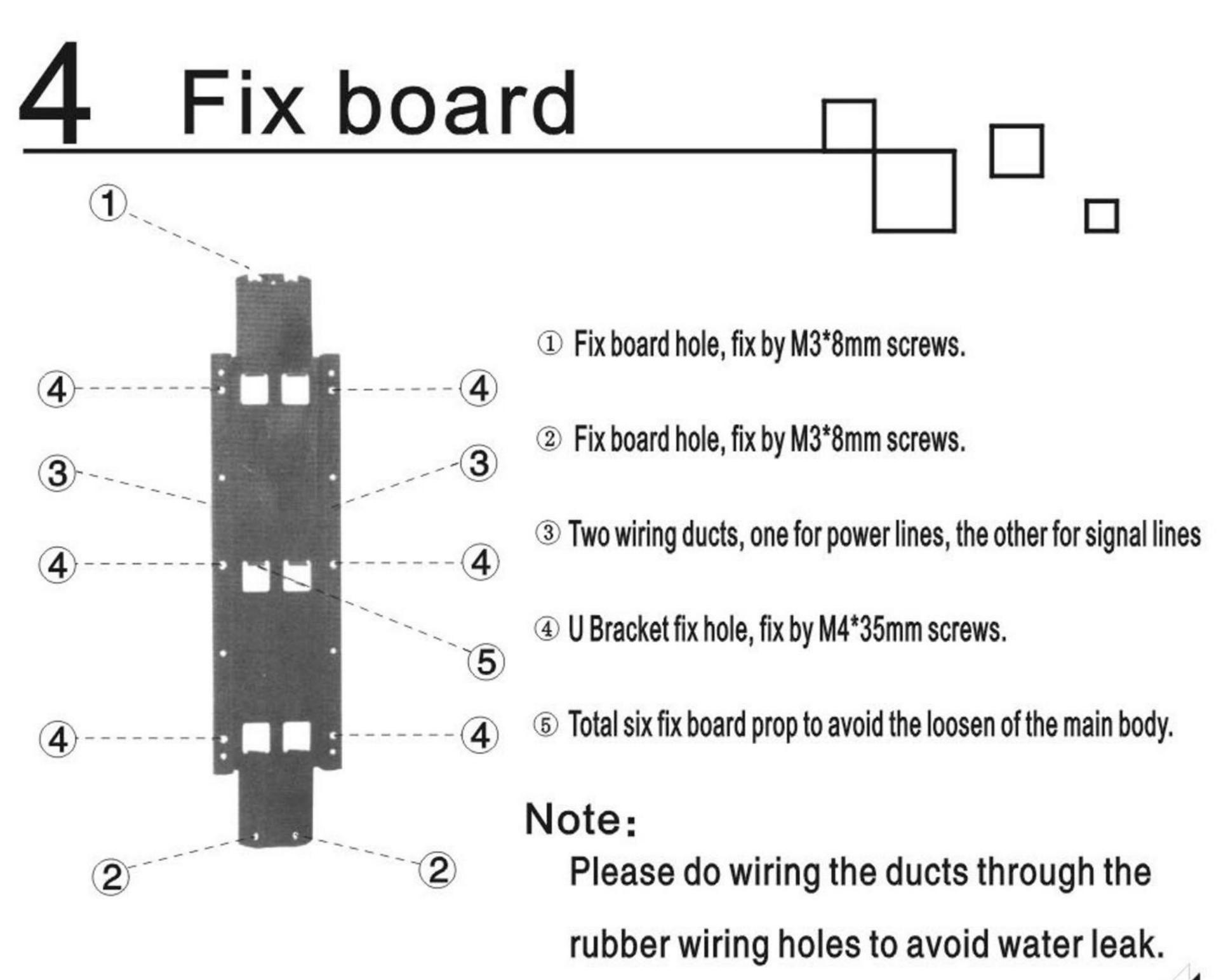
Multi sensors may be used for long-distance guarding. Please install according to the below



2. Please adopt our props(choose and buy) as to your using environment, prop diameter: 50mm



- 3. Using regular diameter props, and make sure it straight.
- 4. Fasten the props to the main body ensure the good alignment.
- 5. Make sure the transmitter and receiver same straight and level.



5 Wiring

1) Transmitter Wiring

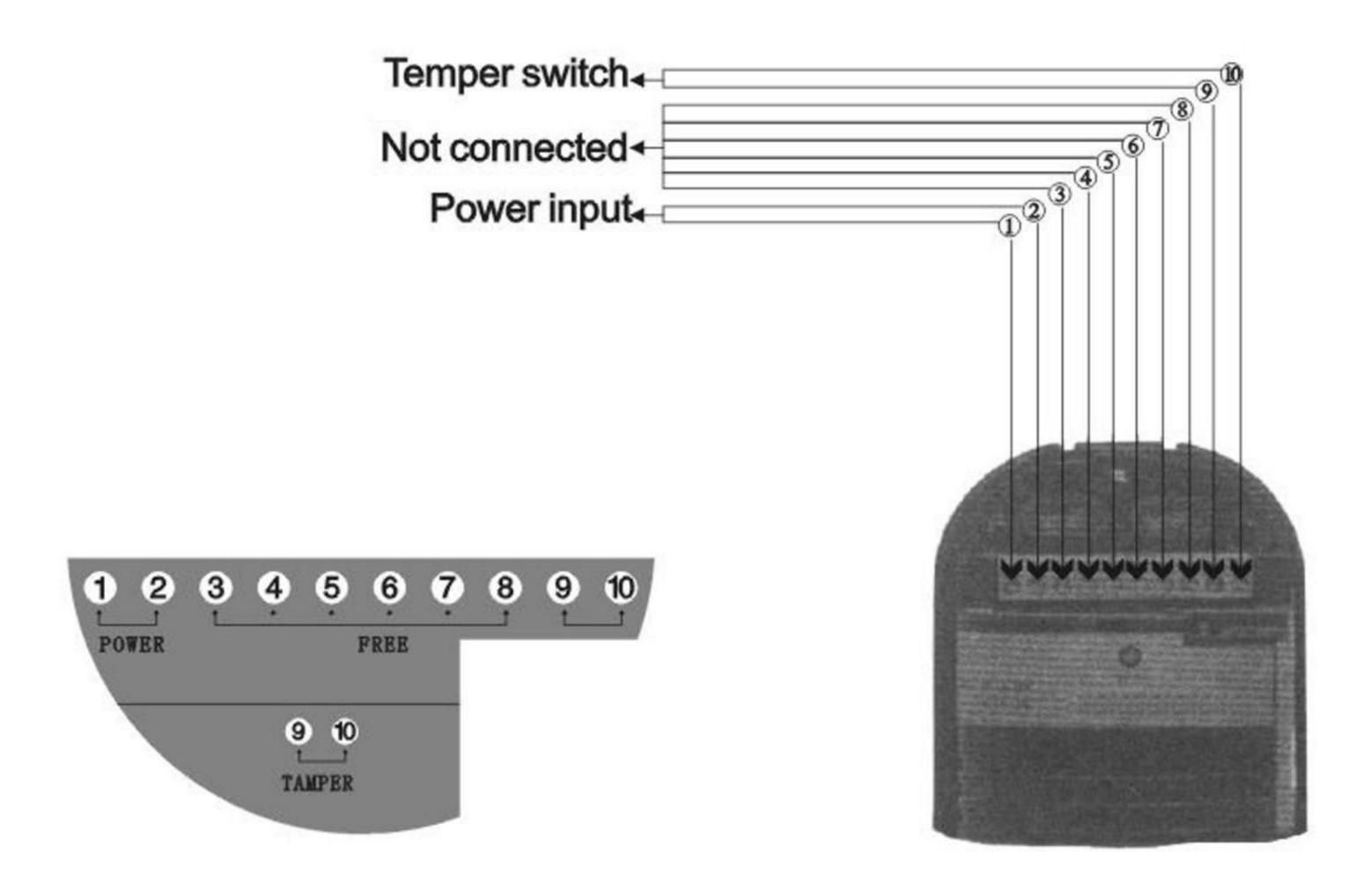


Diagram A Transmitter terminals

2) Receiver Wiring

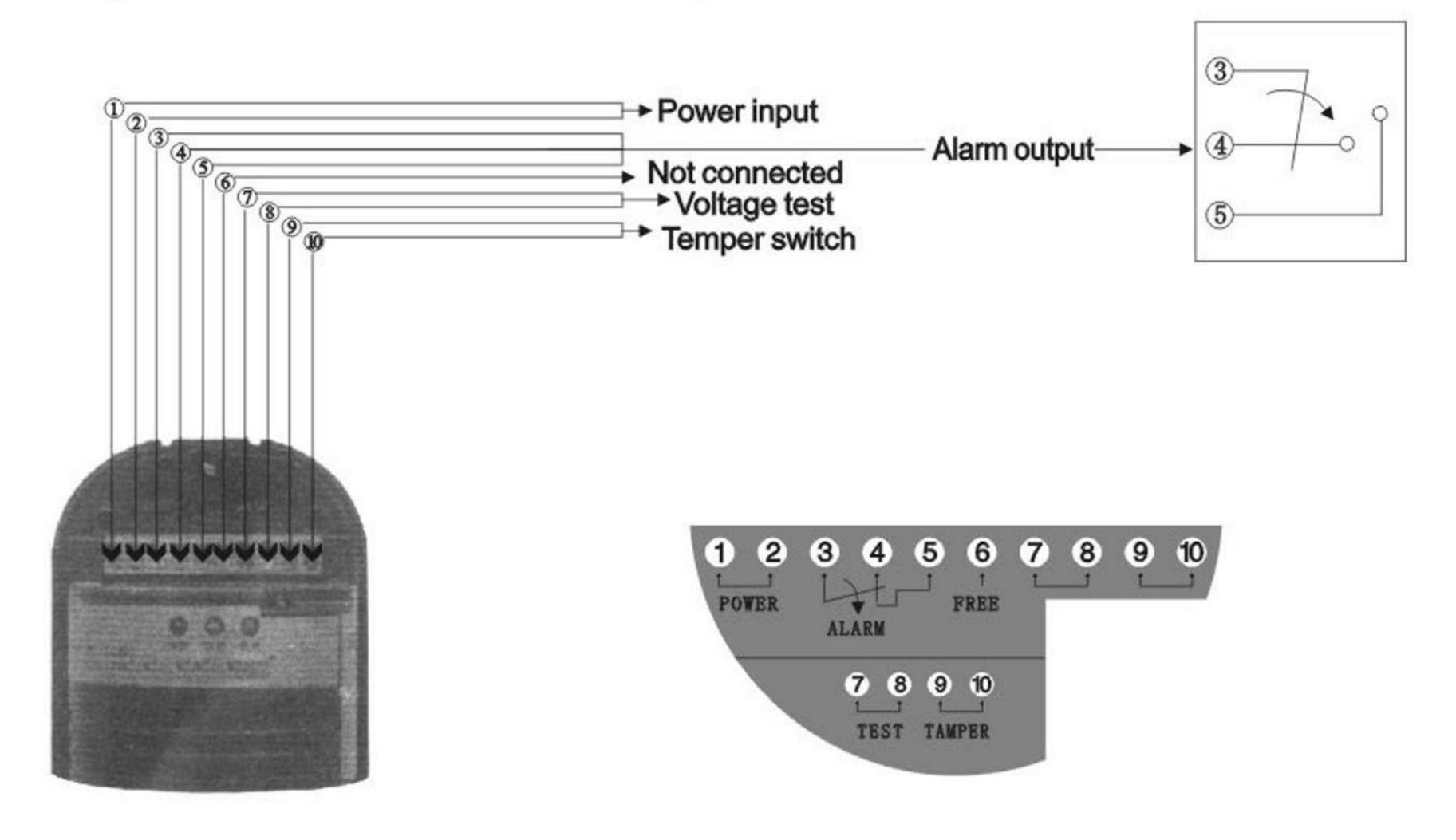


Diagram B Receiver terminals

3) Set wiring

- A. Take off the rubber rings and break through them by the screwdriver.
- B. Pass the wires through the rubber ring holes.
- C. Replace the rubber rings to the wiring holes.
- D. Loosen the terminal scews to open the spacer.
- E. Insert the wires to between the spacers, and fasten the scews.
 (Proper the length of the metal wires to avoid wires short)
- F. After testing, seal the rubber holes with glass sealant.
- G. Make sure the power wires and signal wires go seperately through the right holes (Note: Do follow the procedure to avoid water leak)

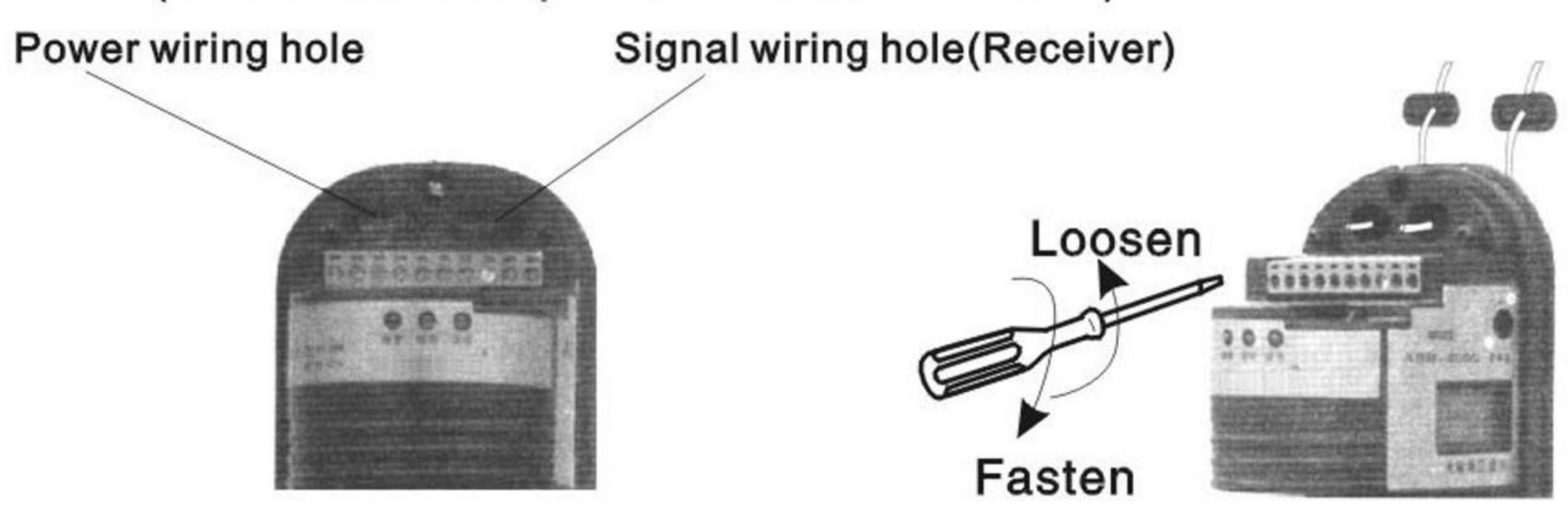
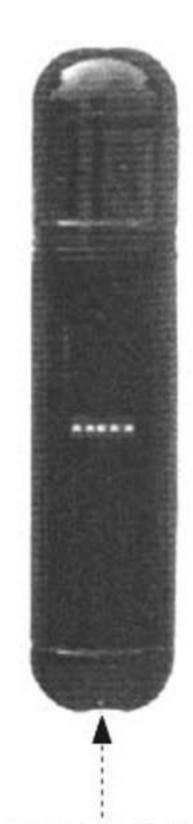


Diagram C

Diagram D

4) Openning the housing

Loosen the housing screw and then uncover the housing



(Note: Take care, don't use too much force or you may break the housing)

Diagram E

5) Pole mounting

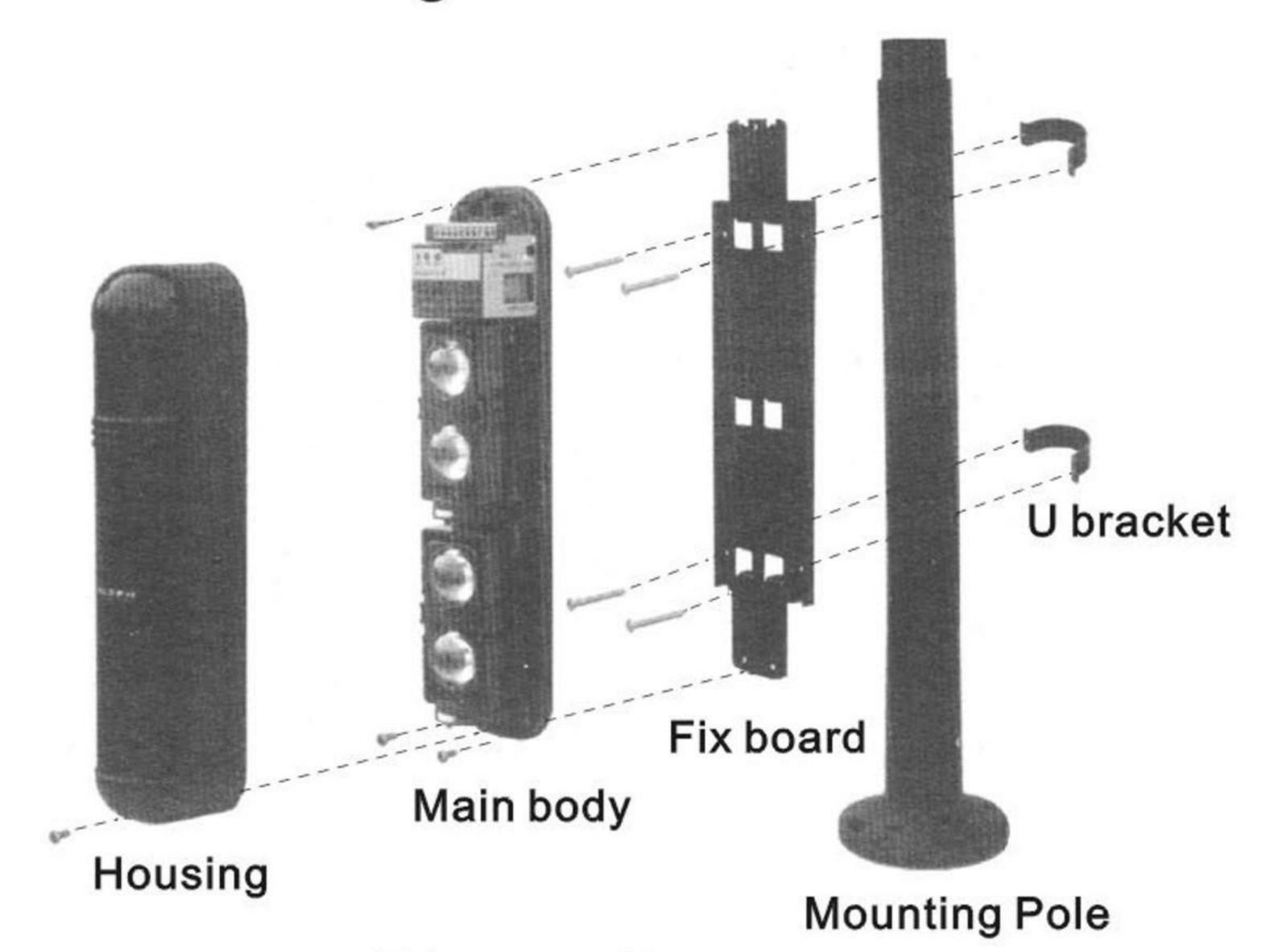


Diagram F

6 Beam adjustment ☐

1) Beam response time adjustment

Please see the diagram to adjust the response time of the receiver. Usually, the time set shall be less than the time when the intruder crosses the guarding area.

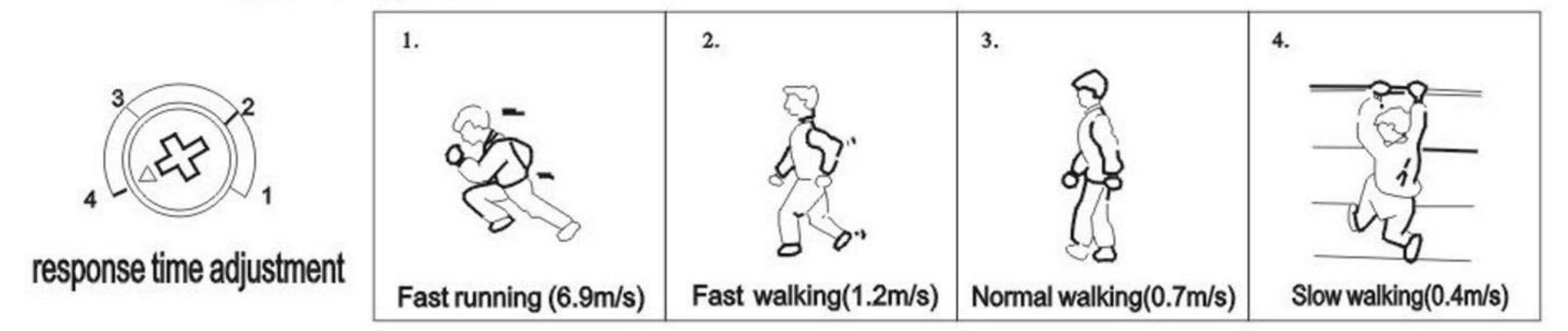
The Brightness of the yellow indicator shows the state of alignment

Beam response time adjustment

Horizontal adjust knob

Vertical adjust knob

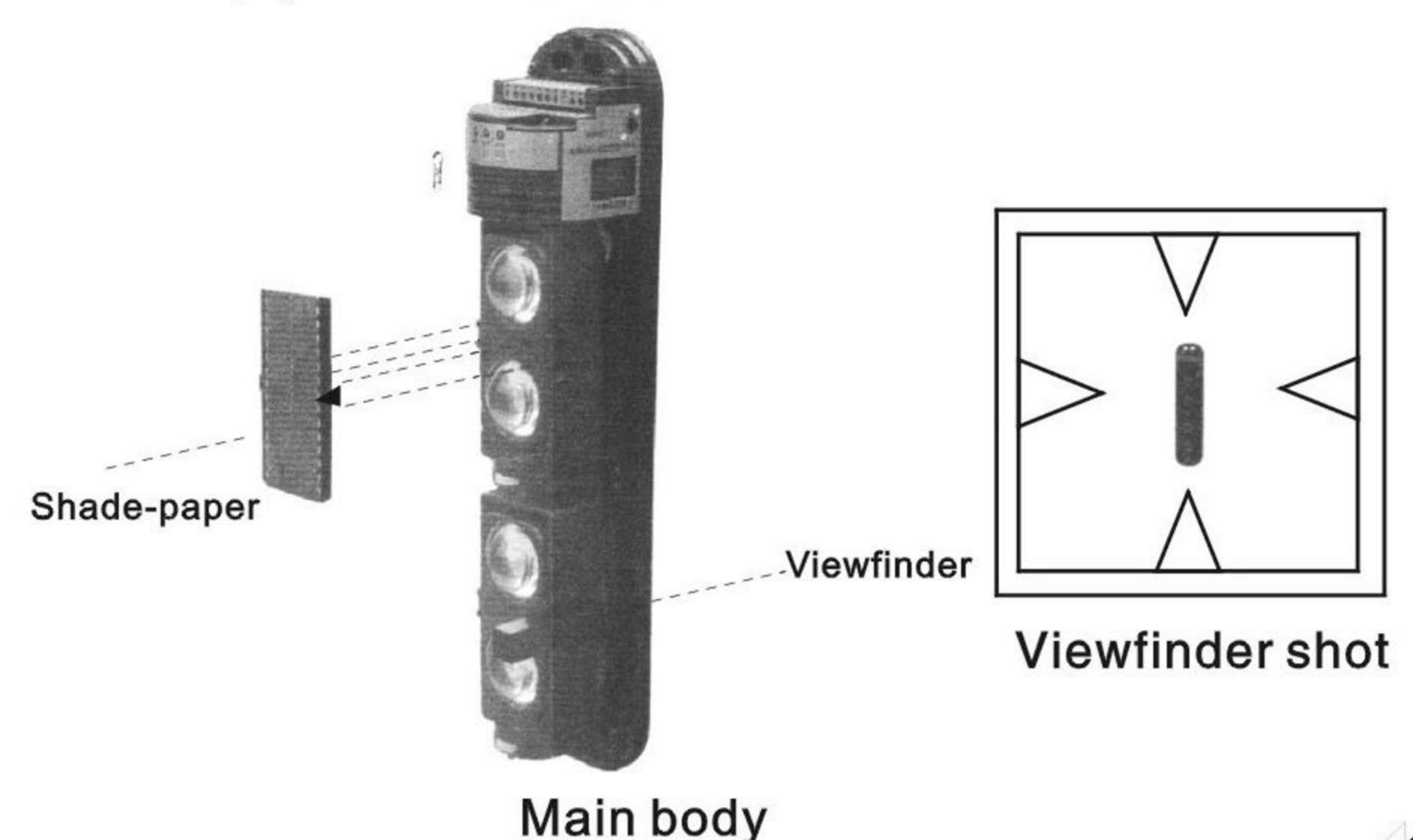
(Please see the diagram to adjust the response time of the receiver)
Usually, the time set shall be less than the time when the intruder crosses
the guarding area.



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

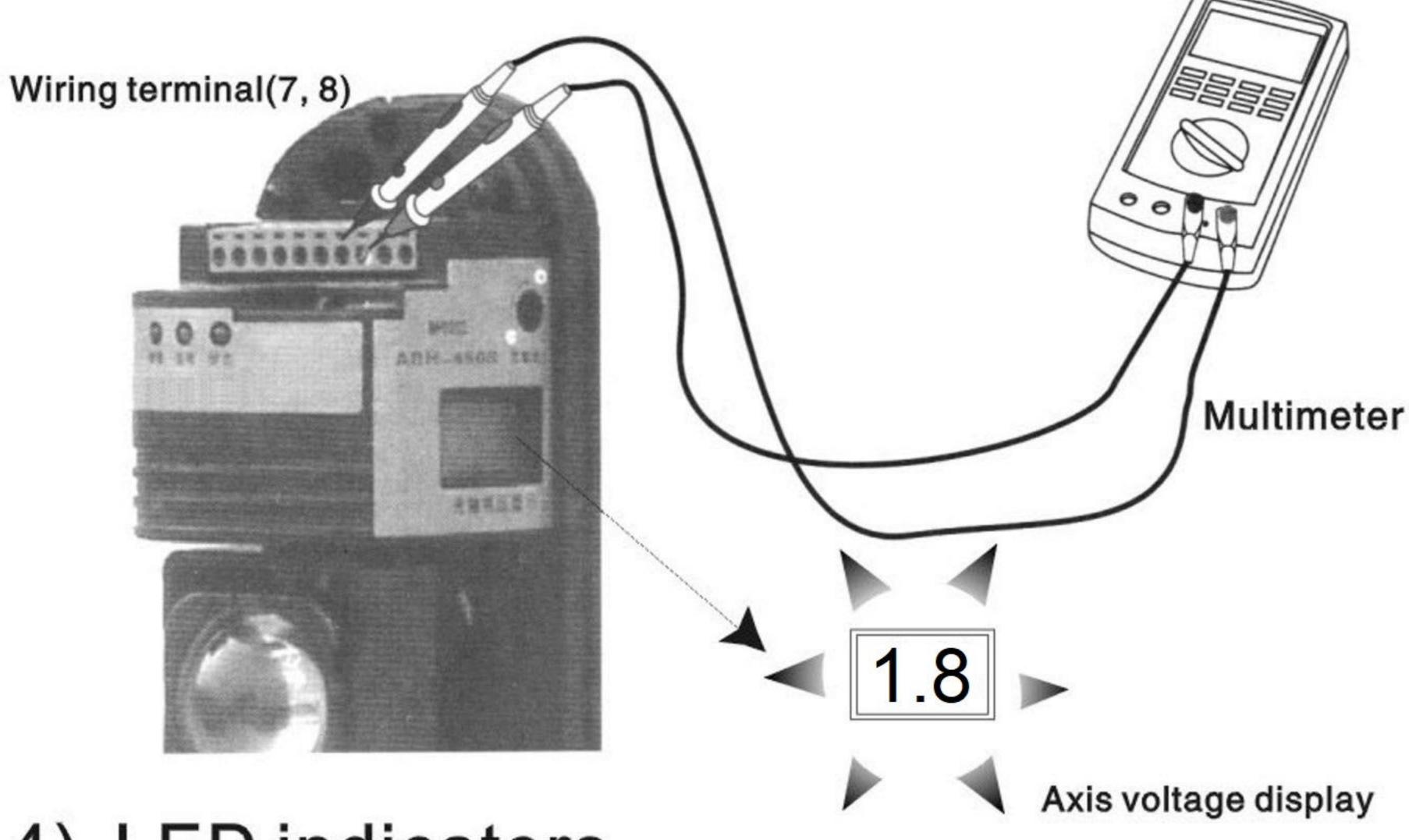
2) Using of the shade-paper and viewfinder

- A. Adjust the upper and lower optical axis separately.
- B. Observe the collimation effect at a distance of 5cm from the viewfinder.Adjust the upper / lower angle regulation screw and horizontal adjustment wheel in order that the image of opposite detector falls into the central part of the viewing hole.
- C. Mask the upper lens of the transmitter and receiver, Adjust the vertical adjustment screw and the horizontal angle adjusting wheel till the LCD display max(about 1.8V) put off the mast and test the upper lens by the same way. Last put off the mast, and the LCD display will be about 0.8-1.8V



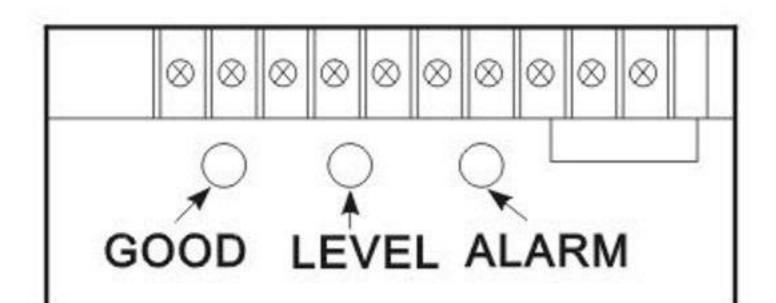
3) Voltage test method

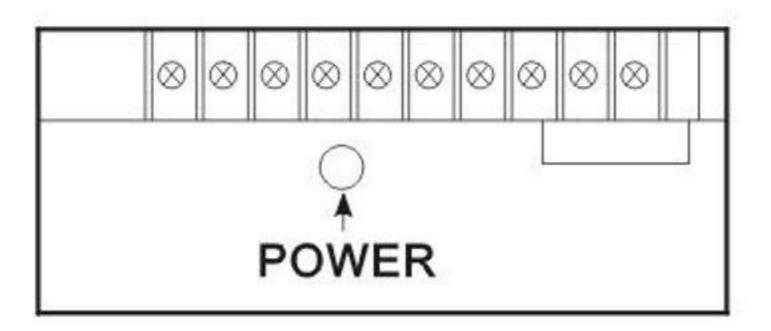
- 1. After well installed, insert the test pen into the test hole (please note the +,- polarity)
- First adjust the horizontal angle until the test hole voltage output maximize.
 Then adjust the vertical angle by the same way till the output voltage reaches the maximize.



4) LED indicators

	State	Signal	
Transmitter Transmitter		The 2 indicators of green LED light up	
Receiver	Guarding	GOOD LEVEL indicators light up	
	In alarm	The red ALARM indicator light up	





Receiver

- Signal indicator(Yellow)
 brightness indicate the signal level
- Alarm indicator(Red)
 Turns ON when alarm
- State indicator(Green)
 Turns on when working well

Transmitter

State indicator(Green)
 Turns on when working well

8 Trouble Checking _ _ _

Fault	Cause	Solution
The LED of the transmitter doesn't light up	Power failure (open circuit, short-circuit, etc.)	Check the power wiring
The LED of the receiver doesn't light up	Power failure (open circuit, short-circuit, etc.)	Check the power wiring
The LED of the receiver doesn't light up when the light is blocked	By reflecting, or light from other sources enter the receiver Both beams are not blocked at the same time Response time is set too short	 Remove the reflecting object or change the direction of beam Block both beams at the same time Prolong the response time
The receiver alarm indicator ON after the beam is blocked, but there is NO alarm signal output	Broken circuit or short-circuit of the wiring Poor contact	① Check the wiring and contact ② Connect the cable
The alarm indicator of the receiver is constantly ON.	 The beam doesn't match closely There is obstacle presents between the transmitter and the receiver The cover is polluted. 	 Re-adjust the beam Remove the obstacle Clear the cover
Intermittent alarm signal output	 Improper wiring The supply voltage does not reach 13V or highe The potential obstacle appears to block the beams due to the effect of wind and rain The installation base unstable The beam coincidence accuracy is inadequate Beams blocked by other moving objects Response time too short The LEVEL LED does not light up before the cover is put on 	3 Remove the obstacle or change the location 4 Select a site with a stable base 5 Re-adjust the optical axis
Voltage display jump	Imperfect earth of the switch power shell Optical axis misalignment Signal too weak	Temper connect to the ground Adjust the optical axis replace longer distance detectors