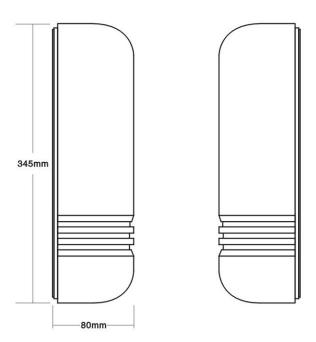
Perfect Technology Create Safe Life



Active photoelectric beam detector



■ Exquisite Technology ■ High Performance ■ Easy Installation	
Resonable Price Quality Service	
XA-S Series	
1. XA-50S	
2. XA-100S	
3 YA_150S	

XA-200S

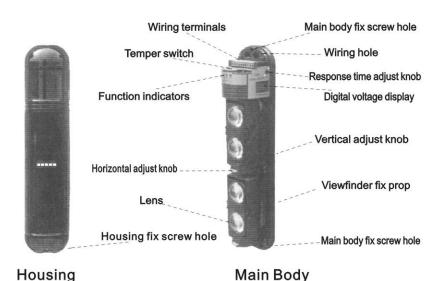
5. XA-250S

1 Parts List

Check the parts inbox

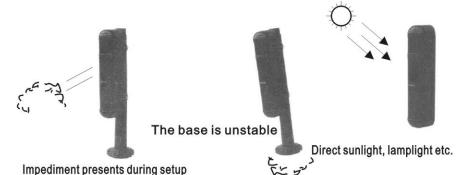
- 1. Transmitter (1)
- 2. Receiver (1)
- 3. Manual (1)
- 4. Fix Board (2)
- 5. U Bracket (2)
- 6. M3*8mm Screw (6)
- 7. M4 x 35mm Screw (8)
- 8. Adjust Viewfinder (2)

2 Part Name

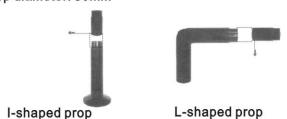




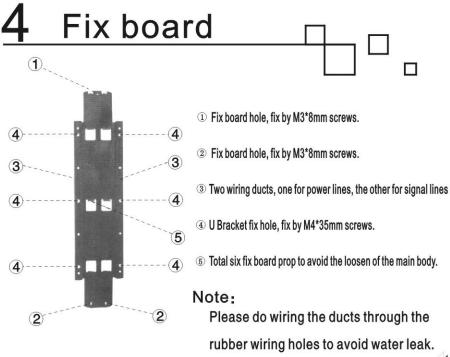
Multi sensors may be used for long-distance guarding. Please install according to the below diagram to avoid interference between beams



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

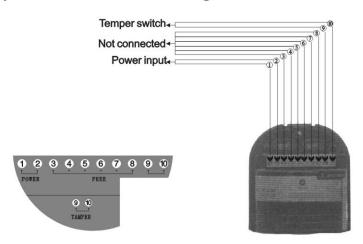


Diagram A Transmitter terminals

2) Receiver Wiring

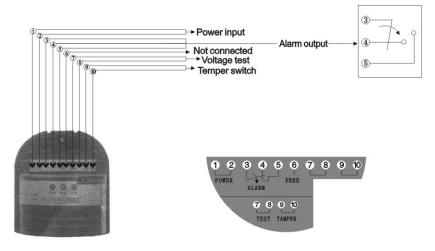


Diagram B Receiver terminals

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)

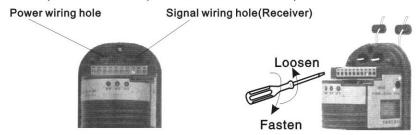


Diagram C

Diagram D

4) Openning the housing

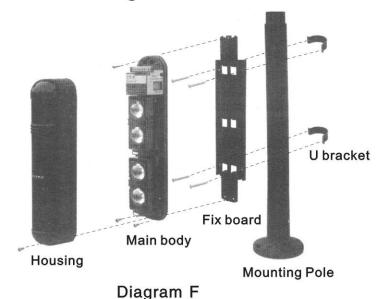
Loosen the housing screw and then uncover the housing



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

Diagram E

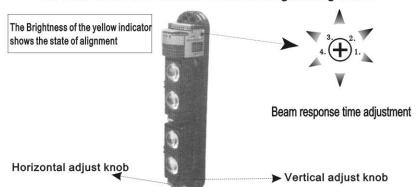
5) Pole mounting



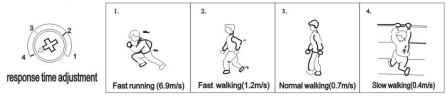
Beam adjustment

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.



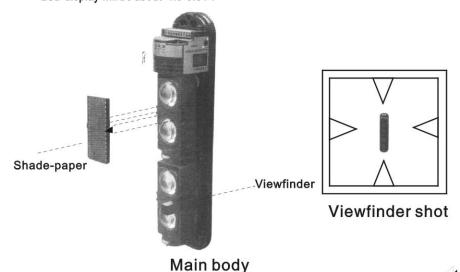
(Please see the diagram to adjust the response time of the receiver)
Usually, the time set shall be less than the time when the intruder crosses the guarding area.



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

2) Using of the shade-paper and viewfinder

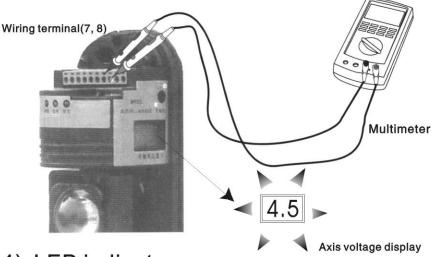
- A. Adjust the upper and lower optical axis separately.
- B. Observe the collimation effect at a distance of 5cm from the viewfinder. Adjust the upper / lower angle regulation screw and horizontal adjustment wheel in order that the image of opposite detector falls into the central part of the viewing 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 3.7V-4.2V) 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 4.5-5.0V.



3) Voltage test method

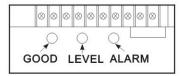
- 1. After well installed, insert the test pen into the test hole (please note the +,- polarity)
- 2. First adjust the horizontal angle until the test hole voltage output maximize.

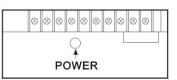
 Then adjust the vertical angle by the same way till the output voltage reaches the maximize.



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

7 Technical parameters □

Model		XA-50S	XA-100S	XA-150S	XA-200S	XA-250S
Alert distance	Outdoor	50m	100m	150m	200m	250m
	Indoor	150m	300m	450m	600m	750m
No. of beams		4 beams				
Detection mode		4 beams blocked simultaneous				
Optical source	е	Infrared digital pulse beam				
Response sp	eed	50 ~ 700msec adjustable				
Alarm output	ē	Relay contact output: NO. NC contact rating: AC/DC30V 0.5AMax				
Power supply	1	DC12 ~ 20V AC11 ~ 15V P≥15W				
Power consumption		95mA	100mA	100mA	100mA	105mA
Operation tempera	ature & humidity	-25 ~ +55° 5%	-95%RH(relative hu	ımidity)		
Dimensions		Refer to its diagram				
Tamper outpo	ut	Contact output: NC contact rating DC24V 0.5Amax				
Optical axis a	djustment(H)	±180° (±90°)				
Optical axis a	djustment(V)	10°(±5°)				
Additional fur	nction	Receiver indicator, voltage LCD display, testing hole				
Protection agai	nst dew, frost	Calefaction housing (optional)				
Material		ABS resin				
Net weight		1100g(receiver +transmitter)				
Gross		1800g				

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	① Check the wiring ② Check the supply power ③ Remove the obstacle or change the location ④ Select a site with a stable base ⑤ Re-adjust the optical axis ⑥ Adjust the shade time or the install location ⑦ Re-adjust the response time ⑧ Re-adjust the optical axis, and make the signal reception reaches its top.	
Voltage display jump	① Imperfect earth of the switch power shell ② Optical axis misalignment ③ Signal too weak	① Temper connect to the ground ② Adjust the optical axis ③ replace longer distance detectors	

Dealer:	