

DETECTOR FOTOELÉCTRICO ACTIVO DE INTRUSOS DOBLE HAZ BT CON CONVERSION DE FRECUENCIA DIGITAL

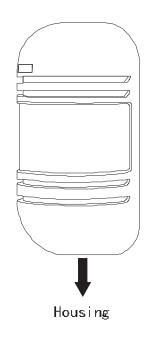
Guía de instalación



Modelps:

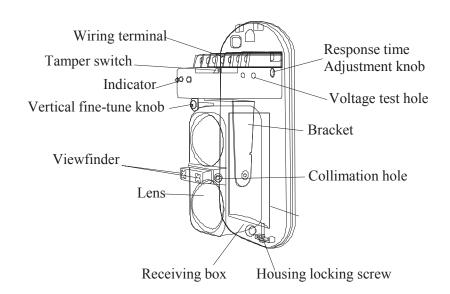
ABT-20	(Outdoor 20m, Indoor 60m)
ABT-30	(Outdoor 30m, Indoor 90m)
ABT-40	(Outdoor 40m, Indoor 120m)
ABT-60	(Outdoor 60m, Indoor 180m)
ABT-80	(Outdoor 80m, Indoor 240m)
ABT-100	(Outdoor 100m, Indoor 300m)

I. Part Name





●POWER: Transmitting indicator

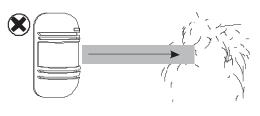




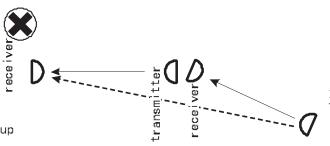
- LEVEL: Lightness of the indicator increases with the accuracy of beam alignment.
- ALARM: The indicator turns on when alarm presents.
- ●GOOD: The green indicator turns on when the beam aligns with the receiver. If fails to align, the indicator will off.

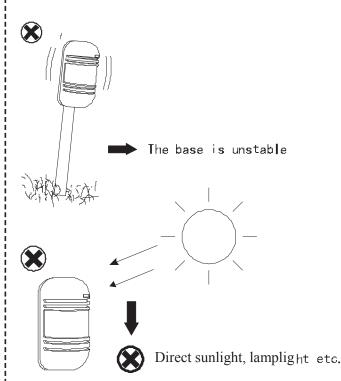
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II. Precautions for setting \vec{\vec{V}}

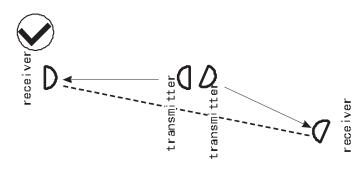


Impediment presents during setup

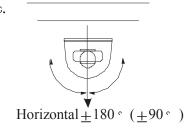


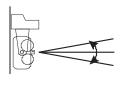


Multi sensors may be used for long-distance guarding. Please install according to the below diagram to avoid interference between beams.

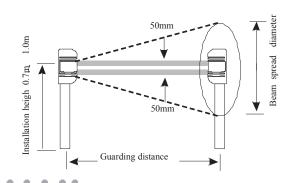


● Adjustable angle: horizontal ±90° vertical±10°





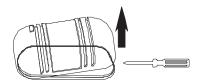
 $V_{
m ertical}$ $\pm 10^\circ$



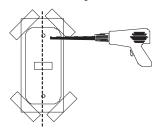
Style	Guarding distanc	e ^B eam spread diameter
ABT-20	20m	0.6m
ABT-30	30m	0.7m
ABT-40	40m	1.0m
ABT-60	60m	1.5m
ABT-80	80m	1.8m
ABT-100	100m	2.1m

III Setting procedure

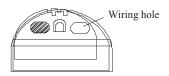
1.Remove the cover



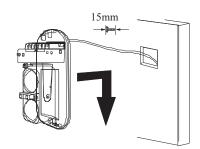
2. Attach the paper stencil onto the location where the equipment is to be mounted, and drill the holes in the positions on its mark.



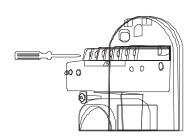
3. Put the cable through the hole for wiring.



4. Fix the main body onto the wall



5. Connect the cable to the wire terminal.



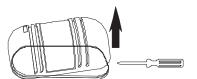
6. Put on the cover after adjusting the response time of the beam.



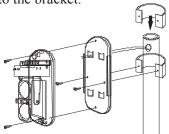
1.Drill a hole on the bracket and extend out the cable from it.



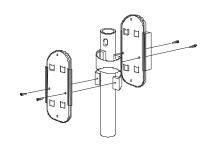
2.Remove the cover.



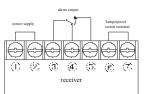
3. Fasten the base-plate to the bracket.



(Back-to-back installation guiding diagram)





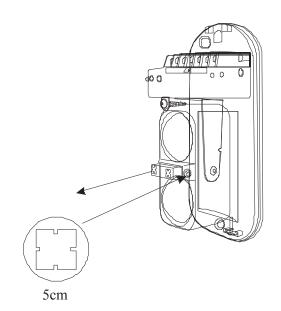


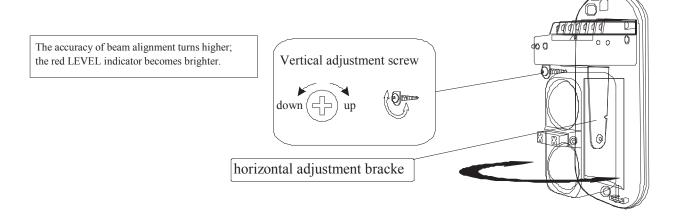
Wiring distance between transmitter and receiver

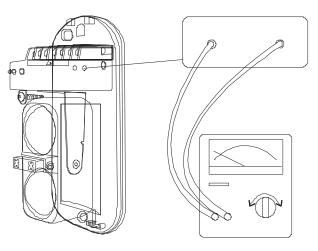
voltage wire size distance	DC13.8V	DC24V
0.5mm²(ф0.8)	300m	300m
0.75mm²(ф1.0)	400m	800m
1.25mm²(ф1.2)	700m	1400m
2.0mm ² ((()1.6)	1000m	2000m

IV Beam alignment

- 1. Remove the cover and connect power.
- 2. Observe the collimation effect at a distance of 5cm from the viewfinder.
- 3. Adjust the vertical adjustment screw and the horizontal angle adjusting wheel in order that the image of opposite detector falls into the central part of the viewing hole. At this time, the GOOD indicator of receiver shall light up; if not, adjust it repeatedly.



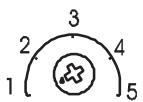




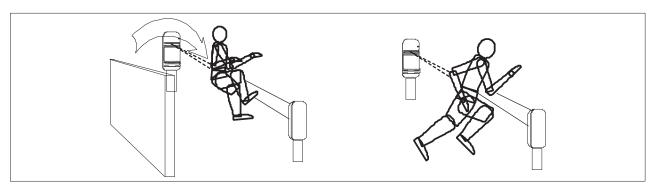
Multimeter selects DC 10V

- 1. 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 voltage reaches the value above that of below diagram.
- 3. If it can't reach 1.1V or higher voltage, the transmitter and receiver shall be regulated again.

${f V}$ 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.



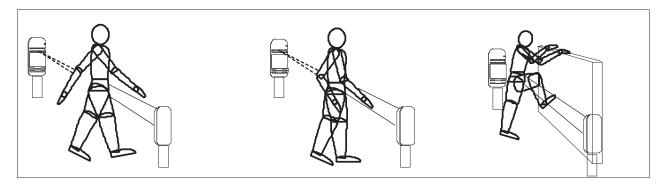
High speed:1

Fast running (6.9 m/s):2

Fast walking(1.2m/s):3

Normal walking(0.7 m/s):4

Slow walking(0.4m/s):5



VI.Physical test

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

	State Signal	
Transmitter	Transmitting	The 2 indicators of green LED light up
R _{eceiver}	Guarding	GOOD LEVEL indicators light up
Neceiver	In alarm	The red ALARM indicator light up

${\tt VII}$. Trouble checking

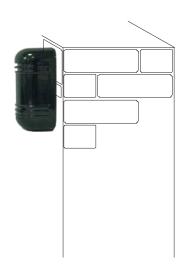
Fau l t	Cause	Solution		
The LED of the transmitter doesn't light up Pov	ver failure (open circuit, short=circuit, ctc.)	Check the power wiring		
The LED of the receiver doesn't light up	Powerfailure (open circuit, short-circuit, etc.)	Check the power wiring		
The LED of the receiver doesn't light up when the light is blocked	1. By reflecting, or light from other sources enter the receiver 2. Both beams are not blocked at the same time 3. Response time is set too short	1. Remove the reflecting object or change the direction of beam 2. Block both beams at the same time 3. Prefeng the response time		
The receiver alarm indicator ON after beam is blocked, but there is NO alarn signal cutput	1 Deaker siesuit as absetwaissuit of the misies	1.Check the wiring and centact 2.Cennect the cab∥e		
The alarm indicator of the receiver is constantly CN.	1. The beam decsn't match ejesely 2. There is obstacle presents between the transmitter and the receiver 3. The cover is pelluted.	1.Remadiust the beam 2.Remove the obstacle 3.Glear the cover		
Intermittent alarm signal eutput	1. Impreper wiring 2. The supply veltage does not reach 13V or higher 3. The potential obstacle appears to block the beams due to the effect of wind and rain 4. The installation base unstable 5. The beam coincidence accuracy is inadequate 6. Beams blocked by other moving objects 7. Response time toe short 8. Level 5 LED does not light up before the cover is put on	1.Check the wiring 2.Check the supply pewer 3.Remeve the ebstacle or change the location 4.Select a site with a stable base 5.Re⇒adjust the optical axis 6.Adjust the shade time or change the install locati 7.Re⇒adjust the response time 8.Re⇒adjust the optical axis, and make the signal reception reaches its tep.		

VIII. Technical parameters:

Mod	lo I	ABT-20	ABT-30	ABT-40	ABT-60	ABT-80	ABT-100
Mode							
Alert distance	Outdoor	20m	30m	40m	60m	80m	100m
	Indoor	60m	60m	120m	180m	240m	300m
		200m	350m	450m	650m	900m	1100m
No. of beams		2 beams					
Detection mode		2 beams blocked simultaneous					
Optical source	!	Infrared digital pulse beam					
Response speed	I	50 700msec					
Alarm output		Relay contact output: NO. NC contact rating: AC/DC30V 0.5AMax					
Power supply		DC13.8 24V AC11 18V P ≥15W					
Power consumption		40mAmax	40mAmax	55mAmax	55mAmax	65mAmax	65mAmax
Operation tempe	erature & humidi	ty25°C-55°C 5	%-95%RH(relative	humidity)		1	
Dimensions		Refer to its diagram					
Tamper output		Contact output: NC contact rating DC24V 0.5Amax					
Optical axis a	djustment (H)	_180 · (_90 ·)					
Optica∣ axis a	djustment $({}^{ m V}\!)$	20 · (_10 ·)					
Protection aga	inst dew, fros	Calefaction housing	g (optional)				
Materia		PC resin					
Net weight		658g(receiver +transmitter)					
Gross		1150g					

IX. Recommended installation guide & physical appearance and dimension







T-shaped bracket T-100 $100 \times 120 \mathrm{mm}$ T-200 $200 \times 120 \mathrm{mm}$

Installation bracket

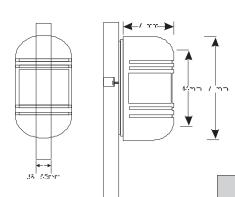




I-shaped bracket I-100 100mm I-200 200mm



Dimensions



The product has got the 3C and CE approval already and is now applying for the UL approval.

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