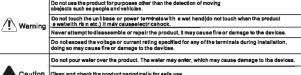
Frequency Adjusted Infrared Detector Manual ABT Dual-beam Series: Outdoor 30/60/100/150 meters ABE Triple-beam Series: Outdoor 50/100/150/ 200/250

Thanks for choosing this photoelectric infrared detector, please read this instruction manual carefully before installation, and keep it for future reference.





Do not use the product for purposes other than the detection of moving obelects such as people and vehicles.

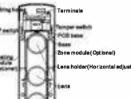
an and check the product periodically for eafe use.

The product are designed to detect intruder, we will not accept responsibility for any damages or other consequences resulting from an intrusion.

Remarks: the details as below only apply to 2 beams,3 basms

Part Name PCB case Base Cese screw Front Case 2 Beams Front Case 2 Beams Body





3 Beams Base 3 Beams Body

Page 1

Features

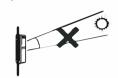
- 1.Beam interruption time adjusted.
- 2. Form C relay providing more applications.
 3. Tamperswitch NC, open when remove case.
 4. 4 channel frequency adjusted, anti-interference, suitbable for 5. Digital tube display received signal strength, easy to debug.
 6. Wide voltage and energy saving design.
 7. Digital communication function.
 - . ince,suitbable for long distance and stack use

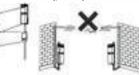
- 7. Digital communication function.
 8. Alignment angle::±90° horizontally,±10° vertically.
 9. Waterproof grade IP65.
 10. Digital filtering, environment adaptive function, minimum false alarm.
 11. The lowest beam interference, can be used in all kinds of complicated environment.

Installation

1 Pleaseavoid these situations below to assure product performance:









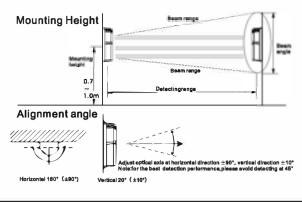


General Installation **Detecting Distance**

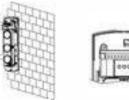
Model	Detecting Distance	Beam Angle
2 beams 30 meters	30m	1.2m
2 beams 60 meters	60m	1.6m
2 beams 100 meters	100m	2.0m
2 beams 150 meters	150m	2.4m

2	Beams Angl	Θ

Model	DetectingDistance	Beem Angle	
3 beams 50 meters	50m	1.6m	
3 beams 100 meters	100m	2.0m	
3 beams 150 meters	150m	2.5m	
3 beams 200 meters	200m	3.4m	









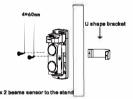
3.Put expansion pipe into 4 mounting holes, 4.Connact wire and beam elignment then fix them with acrew (Please refer to *optical axia alignment*) fasten acrew

Paga 3

Pole Mounting

3 Beams Front Case



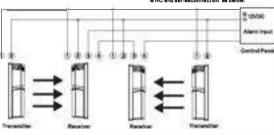


1 set wiring:

2 sets wiring:

3 Beams Angle

The power of the transmitter and receiver are paralleled connection, using DC 12V by control penet alarm outputs NC and series connection as below:



Diameter Length	DC12V	DC 24V
0.5mm² (Diameter 0.6)	100m	500m
0.75mm² (Dismeter 1.0)	150m	750m
10mm² (Diamater 1.2)	200m	1000m
1.5mm² (Diameter 1.4)	250m	1250m
-		

Caution

Powerwire can not exceed the listed length.
 When connectmored electors, theneeded wire length is obtained by listed length divided by number of units used.
 3.De not connect berminals to exceed voltage specified, doing so might damage device or cause.

Alignement Indicator

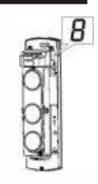
DIP Switch

Digital tube indicator

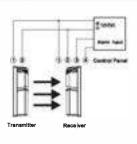
(1) Adjust beam frequency switch, make transmitter and receiver with the same frequency. If transmitterfrequency is CH1, then receiver frequency is also Ch1.

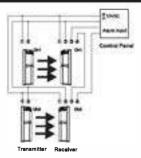
(2) Adjust vertical screw and horizontal lens holder, at this time digital tube displey a from 0 to 8.0 means without signal, and in the status of alarm, relay starm output, starm indica tor is on. When optical axis align well, digital tube displey afrom 0 to 9.0.

(3) After the above step, must do walk testing, and confirm alarm statua normal if can't align, please do step 1.



Signal strength	0~4 Realign 5~6 General 7~8 Gcod 9 Escellent
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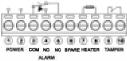
Transmitter terminals:



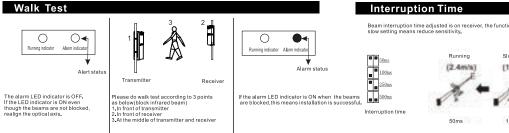
Wire Connection

1.Power input DC 10V-24V 2 Optional heater, standard without heater

Receiver terminals:

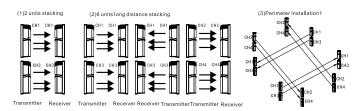


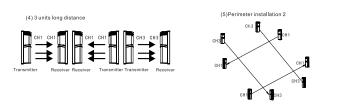
Power Input DC 10V-24V
 Optional heater, standard without heater
 Relay contact 1C 30V DC 0.5A max



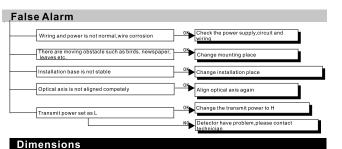
Beam frequency

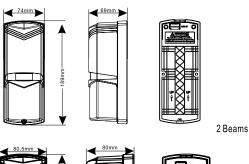
The selectable frequency can avoid anti interference for long distance or stakcing use. Make sure the transimitter and receiver with the same frequency. Although there are 4 channel frequency can be chosen, please set frequency two channels apart for stacking applications. The first unit is est on channel 1 while the next is on channel 3, channel 2 and 4 are the same.

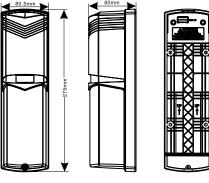




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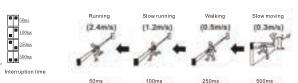




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3 Beams

Beam interruption time adjusted is on receiver, the function can adjust detector sensitivity adapt to different environment, slow setting means reduce sensitivity.



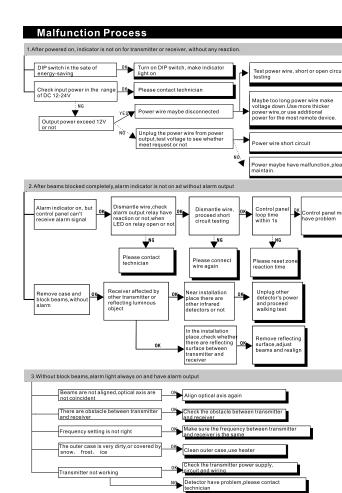
Each interruption time set as the maximum detectable time. Faster speed may be not detected. To birds, newspaper, leaves etc, they can interrupt beam occasionally, setting longer interruption time. After adjusting interruption time, verify is neededd.

Specifications

2 Bear	ms Sensor	30meters	60meters	100meters	150meters	
Detecting distance	Indoor(m)	60	120	200	300	
	Outdoor(m)	30	60	100	150	
2 Beams I	Detecting Way	2 infra	red beams are inter	rupted at the same t	ime	
3 Bear	ns Sensor	50meters	100meters	150meters	200meters	
Detecting	Indoor(m)	100	200	300	400	
distance	Outdoor(m)	50	100	150	200	
3 Beams Detecting Way		3 infrared beams are interrupted at the same time				
Interru	ption time	50ms	,100ms,250ms,500	ms(optional)		
Beam	frequency	4 channel optional				
Worki	ng voltage	10V-24V DC/AC				
Worki	ng current	90mA max				
Alarn	n period	2s, 50ms optional				
Alarn	n output	Relay contact output 1C, contact capacity DC 30V 0.5A max		0.5A max		
Tamp	er switch	NC,open when case removed		NC,open when case removed		
IPs	grade	IP65				
Working	g temperature	-25℃-55℃				
Environ	ment humidity	95% max				
Align	ment angle		Horizontal 180° (±	90°), Vertical 90° (±1	10°)	
Install	ation place		Indoor/out	ioor,wall/pole		
W	eight	2	2 beams senor 900ç	3,3 beams sensor 12	250g	
	U shape bracket	2pcs/4pcs,70*37.5*21.5mm,stainless_material_with_thickness_1.5mm				
Accessories	Mounting screw	4pcs/8pcs.PM4*30mm				
Heater (optional)	Voltage	12V-24V DC				
	Current	350mA max				
	Temperature	+60℃				
	Heater accessories	2pcs,PA2.5*10mm				

Remarks: when environment temperature is lower than -20°C . please choose heater, the wire on the heater is nonpolar.

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