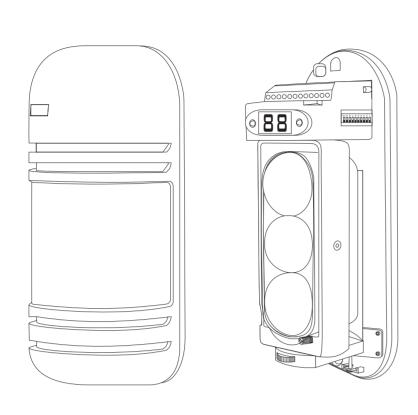
WIRED COMPATIBLE 3 BEAMS ACTIVE INFRARUSION DETECTORS

INSTALLATION GUIDE ABE

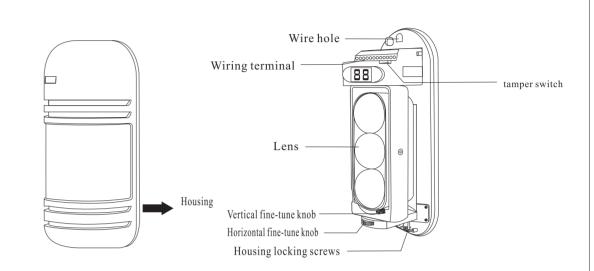


P/N:20170726A02

I. Technical parameters:

Model		ABE-50B	ABE-75B	ABE-100B	ABE-125B	ABE-150B	ABE-180E	ABE-200B	ABE-250B
Alert distance	(Outdoor)	50m	75m	100m	125m	150m	180m	200m	250m
	(Indoor)	150m	225m	300m	375m	450m	540m	600m	750m
Number of beams		3 beams							
Detection mode		3 beams blocked simultaneous							
Optical source		Infrared digital pulse beam							
Response time		50-240ms (adjustable without degree)							
Power supply		DC13.8~24V 15W							
Alarm output		Relay contact output NO.NC contact rating AC/DC30V 30mAMax							
Trouble output Relay contact output NC contact rating AC/DC30V 30mAMax					x				
Tamper output		Relay contact output NC contact rating DC24V 0.5Amax.							
Power consumption		€6	€65mA ≤70mA ≤80mA		€9	90mA			
Operation temperature&humidity -25°C~55°C 5%-95%RH (relative humidity)									
Optical axis adjustment (H)		180° (±90°)							
Optical axis adjustment (V) 20° (±10°)									
Material P C resin									
Net weight 1250			250g (receiver+transmitter)						
Gross weight	t	2168g							

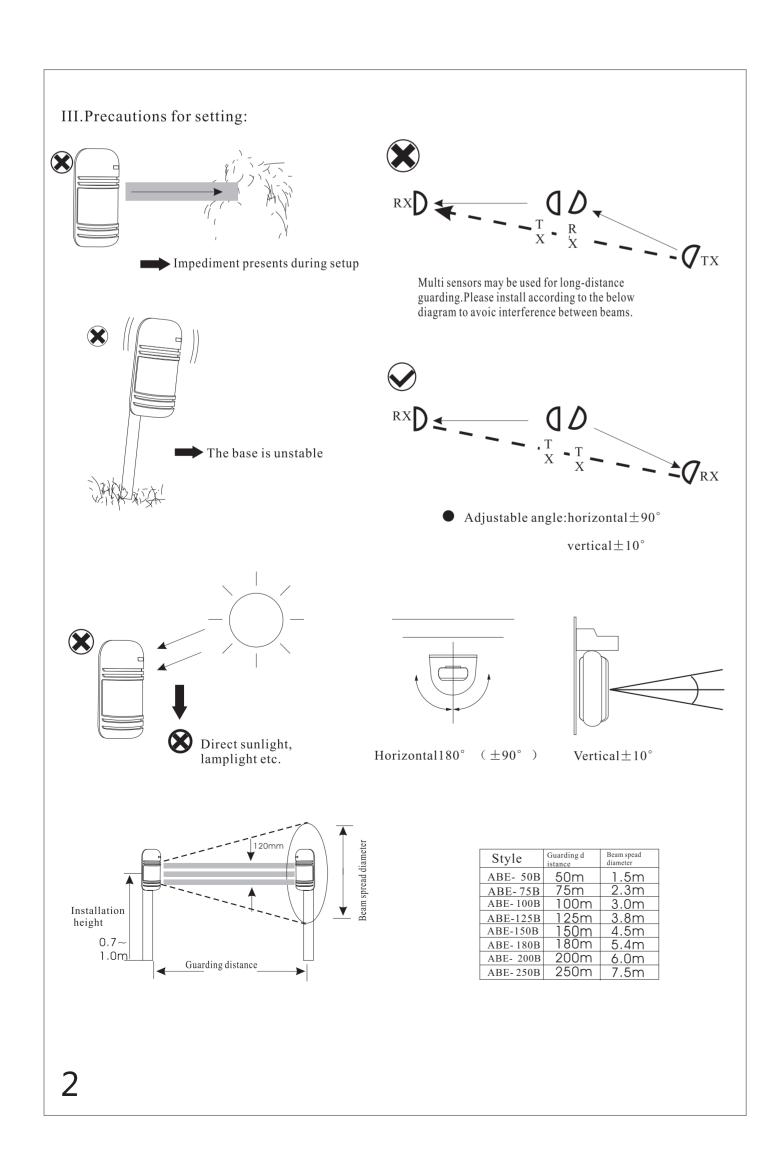
II. Part name:

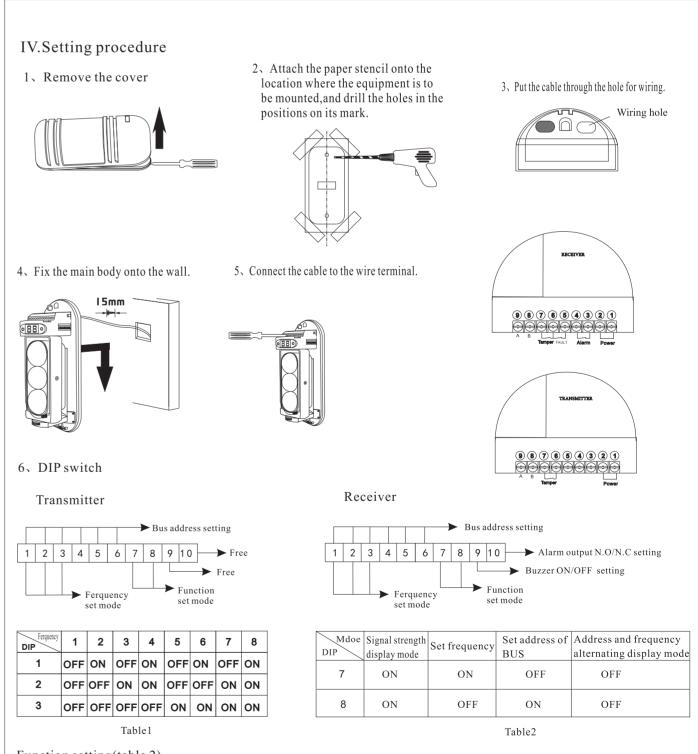


Feature:

- 1.Under bus connection mode: The digital display of RX synchronize with the TX after the RX receive the signal from bus.
- 2.Anti-fog function: when signal strength decrease slowly to 0.8V the detector will active anti-fog alarm (TBL out put), when signal decrease to 0.4V, will active alarm. When signal get back to 1.2v cancel alarm.

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Function setting(table 2)

1.Set frequency: set DIP 7 at ON, DIP 8 at OFF to enter the frequency setting mode, the digital display shows the frequency. Set frequency on DIP 1,2,3. see table 1.

2.Set address of BUS: set DIP 7 at off, DIP 8 at ON to enter address setting mode. The digital display shows the address number, set the address on DIP 1,2,3,4,5,6

3. Signal strength display mode: Set DIP 7 at ON, DIP 8 at ON to enter signal signal strength mode, the digital display

shows the signal strength. The DIP1,2,3,4,5,6 under this mode is free.

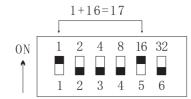
4. Address and frequency alternating display mode, set DIP 7 at OFF, DIP 8 at OFF to enter address and frequency

alternating display mode, The DIP1,2,3,4,5,6 under this mode is free.

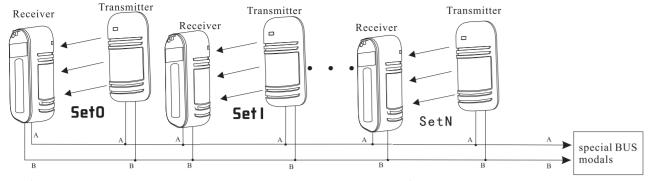
Frequency setting: First enter the frequency setting model (see table 2),

Then set DIP 1,2,3 to set the detector's frequency.(see table 1)

Zone address setting (first enter the address setting mode, see table 2) Under address setting mode, Switch the DIP 1-6 to set the detector's zone address. First set the DIP at ON, the number of the one DIP which set ON plus the other one, then plus 1, the final result of number is the zone number. Example this is zone 18

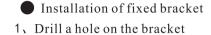


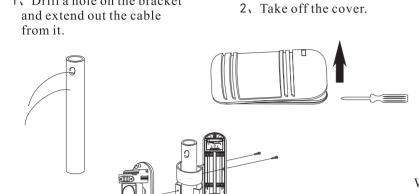
7. BUS Wiring:



(NOTICE: MUST set BUS address from 0 to 31 in order, N ≤31)

8. Take back the cover after the adjustment of the response time.





(Back-to-back installation guiding dirgram.)



3. Fasten the base-plate to the

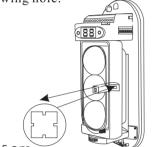
Wiring from power and bus

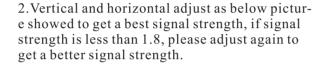
Wire Distance Voltage	DC13.8V	DC24V
0.5mm^2 (Diameter $\Phi 0.8$)	300m	600m
0.75mm^2 (Diameter Φ 1.0)	400m	800m
1.25mm^2 (Diameter Φ 1.2)	700m	1400m
2.0mm ² (Diameter Φ1.6)	1000m	2000m

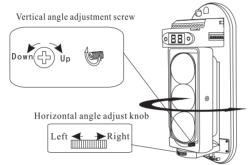
V. Beam alignment

1. Observe the collimation effect at a distance of 5cm from the view finder. 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.

Note: pleas insert waterproof stopper into the hole of screw.







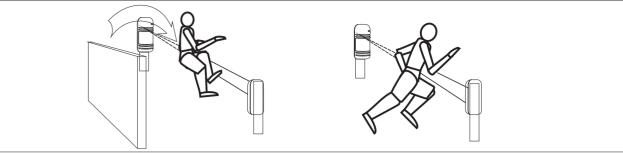
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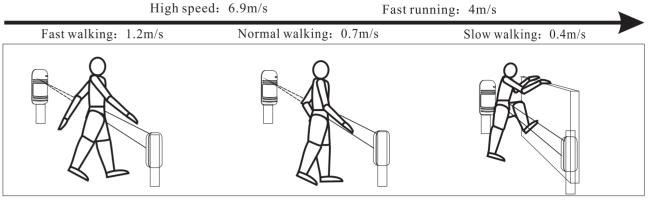
VI.Beam response time adjustment.



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 corsses the grarding area. The MIN point is the shortest time.

Time:50-240m sec without degree



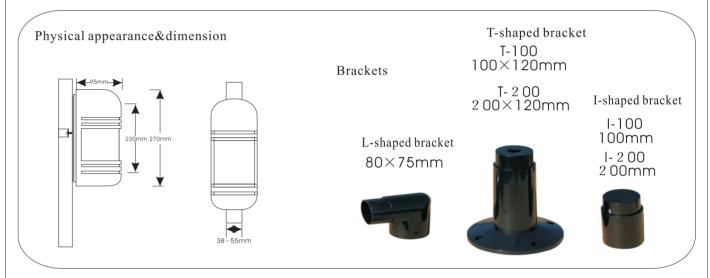


七、LED

After finish setting, please make walk test.

	C / 1		
		Green	Red
TX	flash when is bus signal	light on when there is no bus signal	always light on
RX	I flash when is bus signal	light on when there is no bus signal	light on when alarming, light off as normal status

IX . Dimension.



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