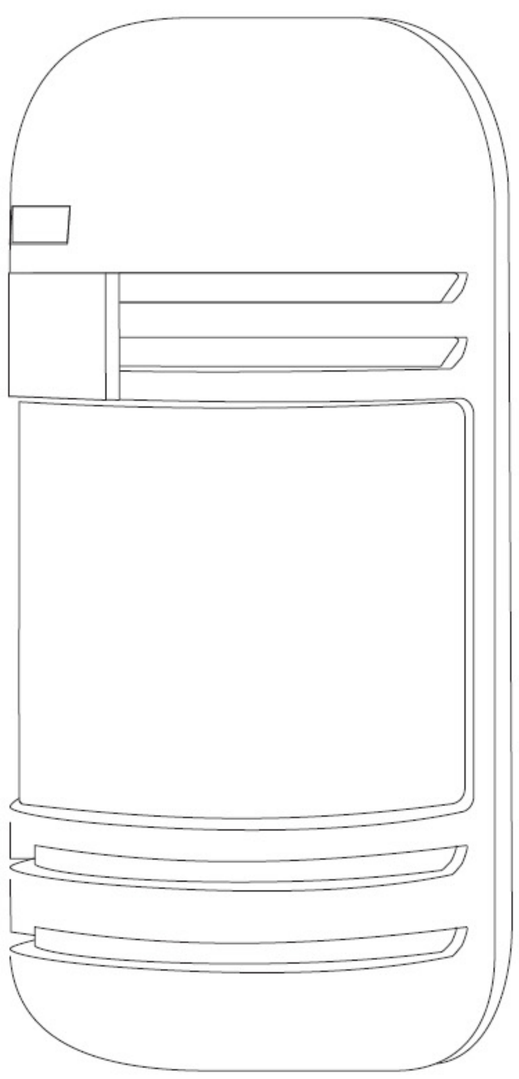
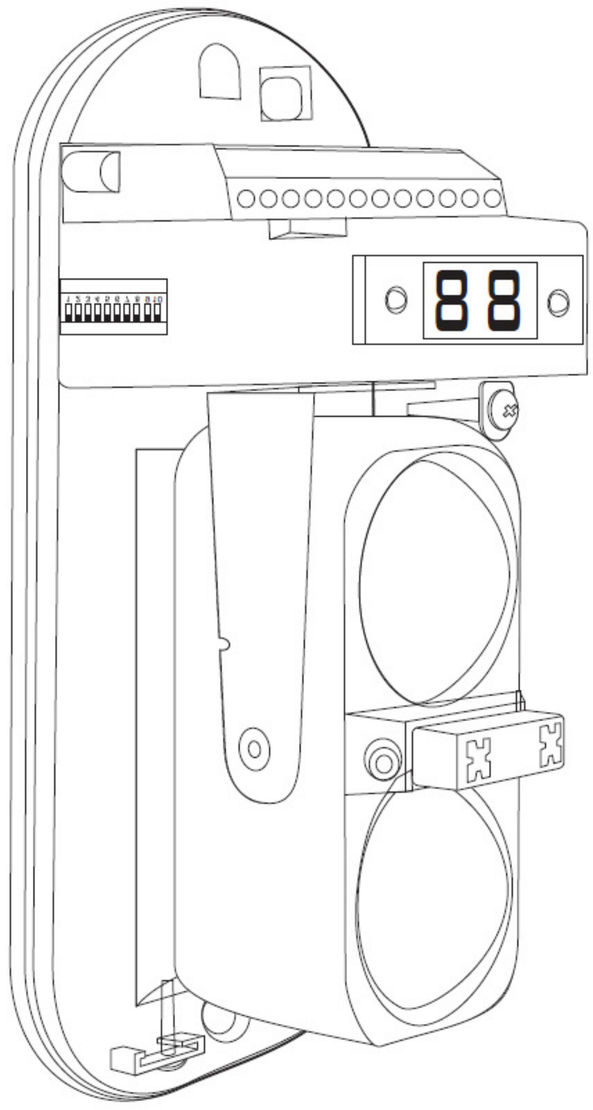
WIRED COMPATIBLE2 BEAMS ACTIVE INFRARUSION DETECTORS

INSTALLATION GUIDE



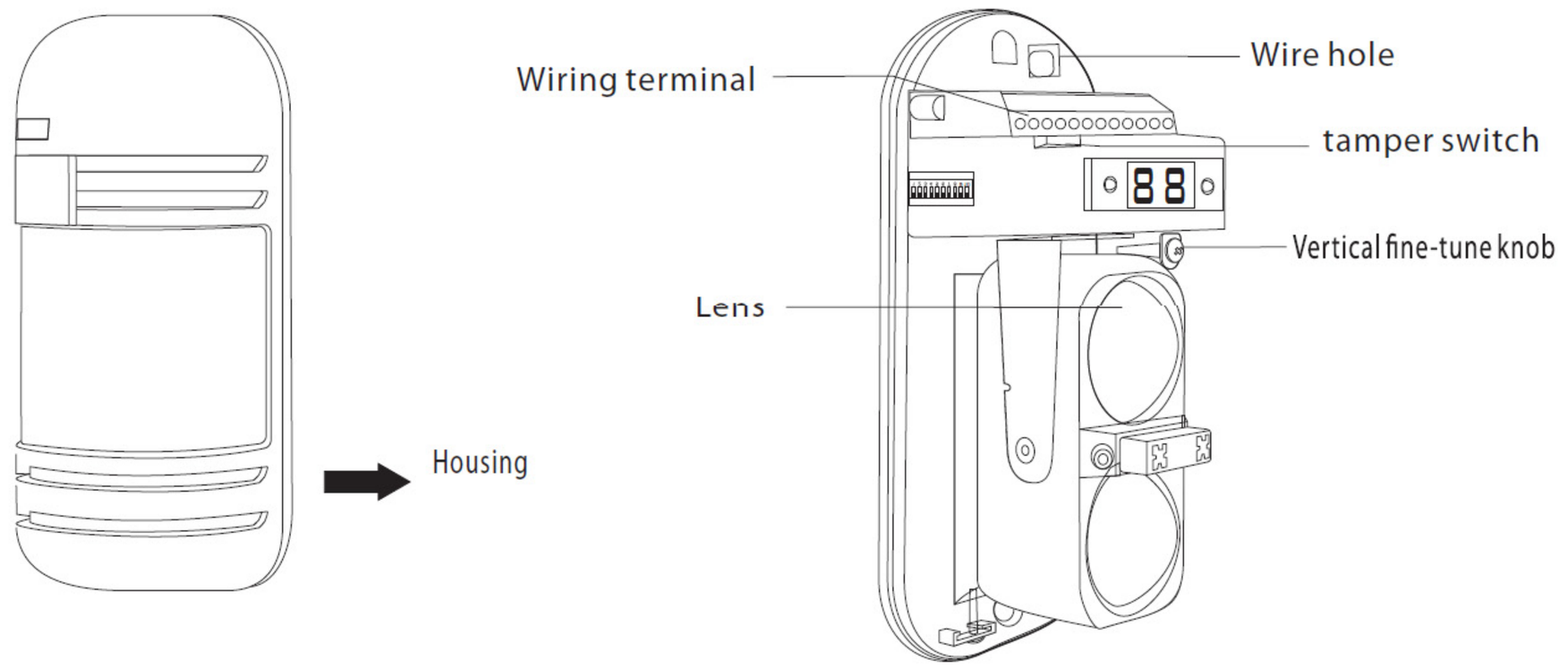


P/N:2013121001

I.Technical parameters:

Model		
Alert distance	(Outdoor)	60m
	(Indoor)	180m
Number of beams		2 beams
Detection mode		2 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
Tamper output		Relay contact output NC contact rating DC24V 0.5Amax.
Power consumption		In the bus mode13.8V DC, ≤100mA
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		430g (receiver+transmitter)
Gross weight		790g

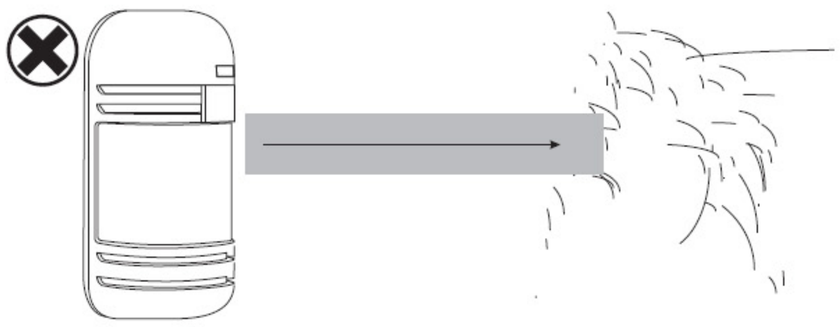
II. Part name:



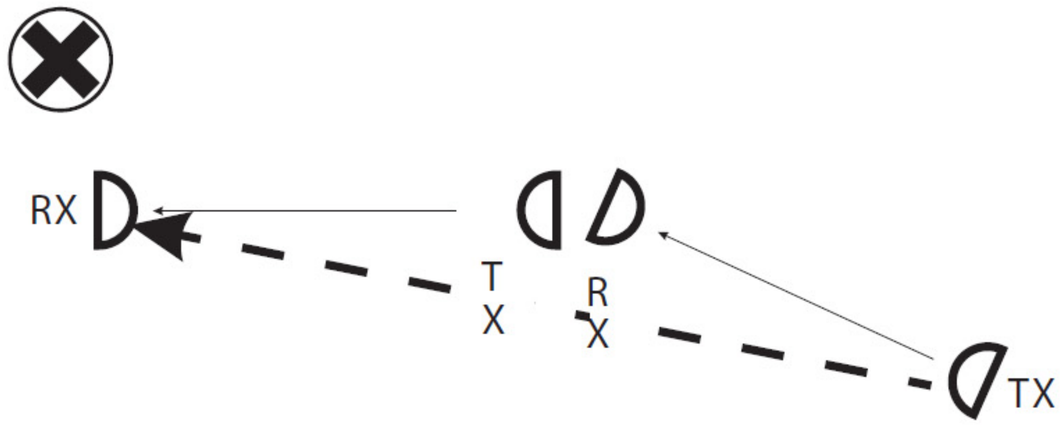
Feature:

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.

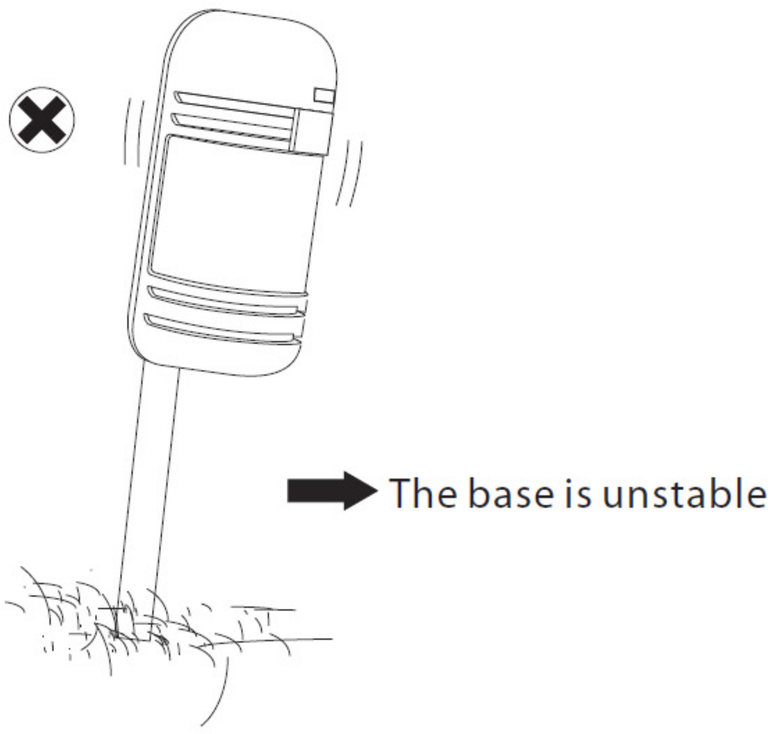
III.Precautions for setting:



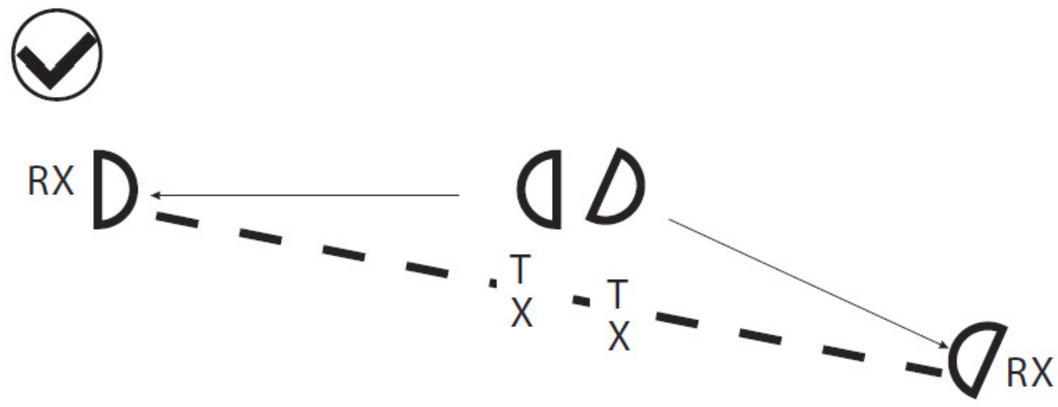
Impediment presents during setup



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

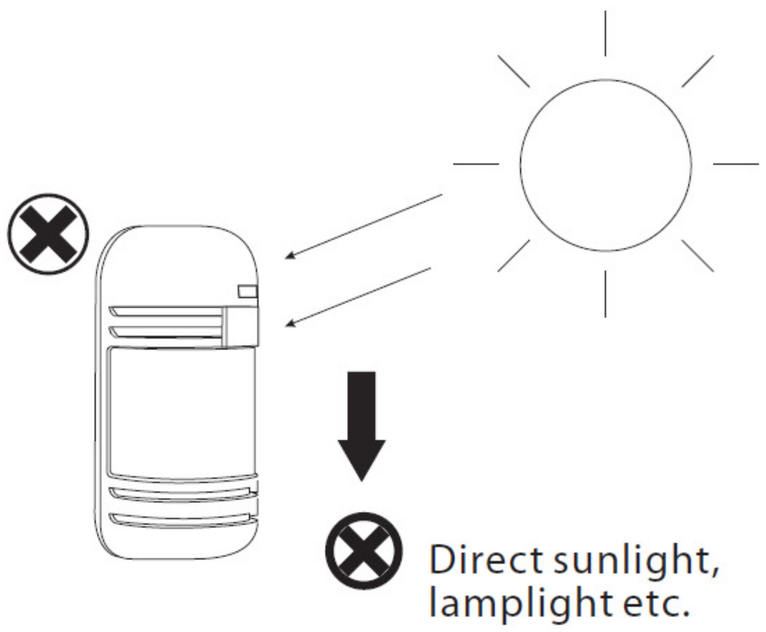


The base is unstable

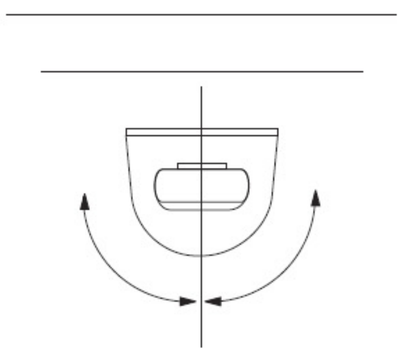


- Adjustable angle:horizontal±90°

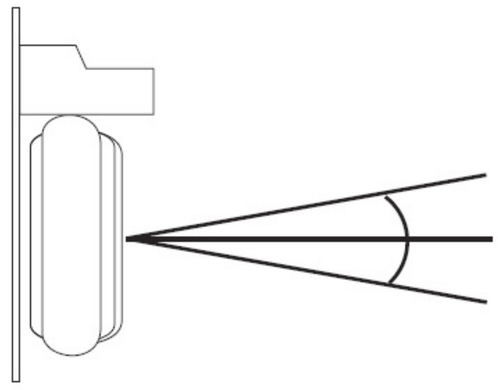
  vertical±10°



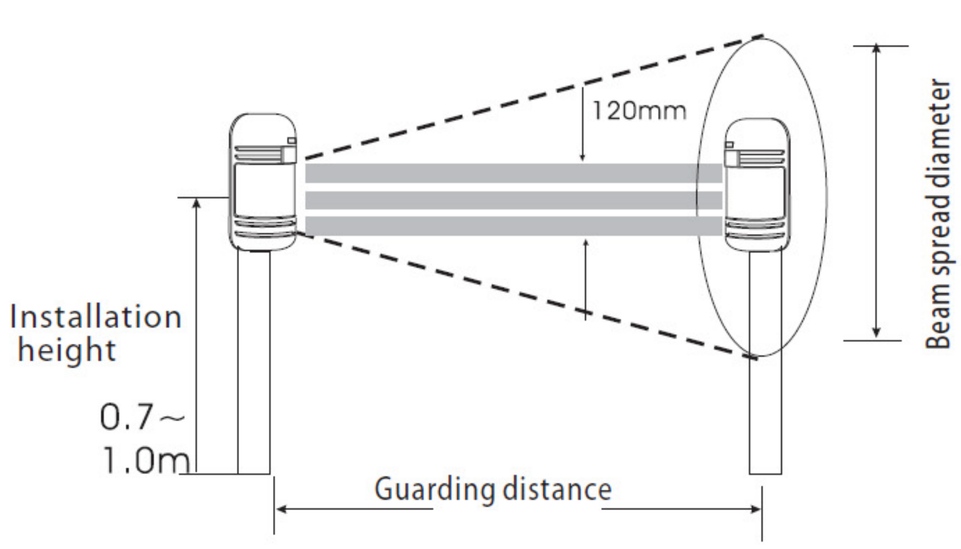
Direct sunlight, lamplight etc.



Horizontal180° （90°）



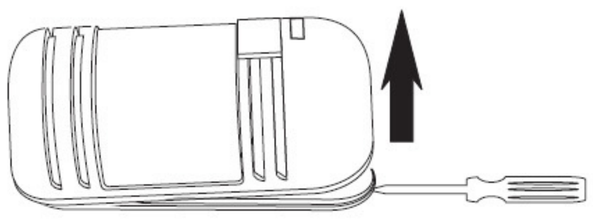
Vertical±10°



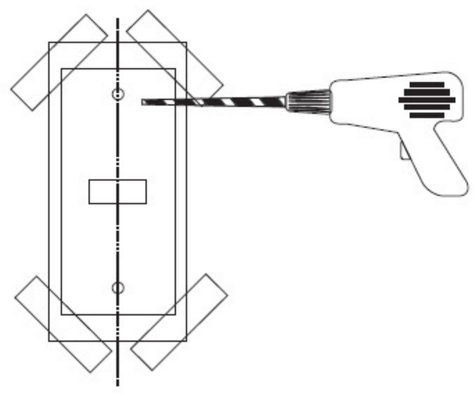
Guarding distance	Beam spead diameter
60m	1.5m

IV.Setting procedure

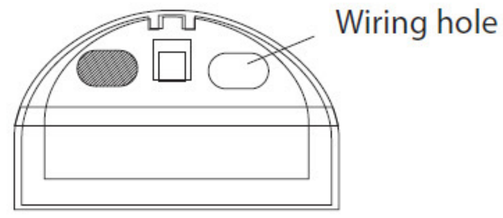
1. Remove the cover



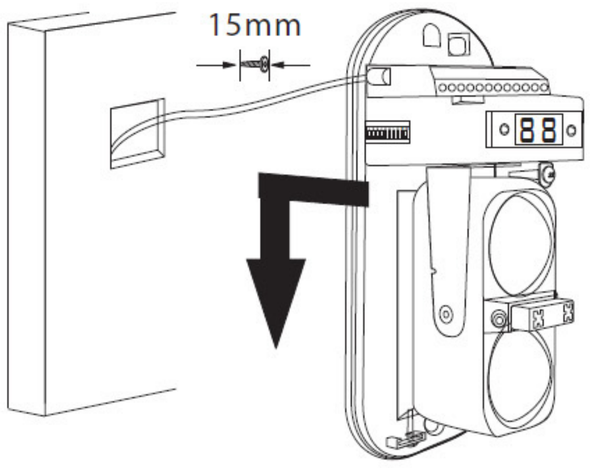
2. Attach the paper stencil onto the location where the equipment is to be mounted,and drill the holes in the positions on its mark.



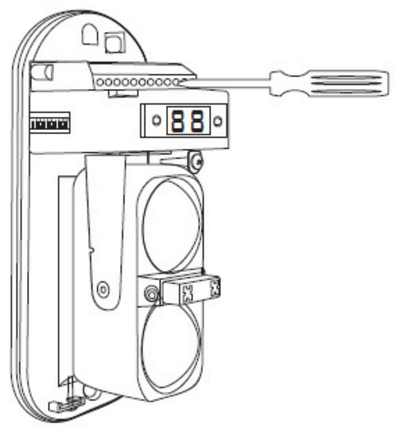
3. Put the cable through the hole for wiring.

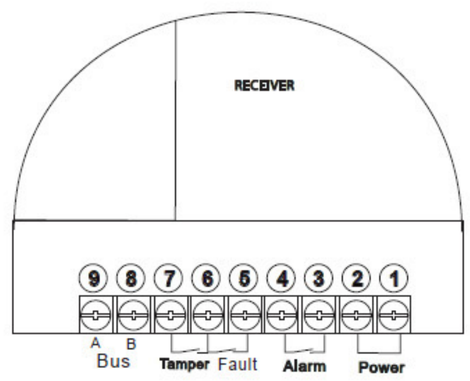


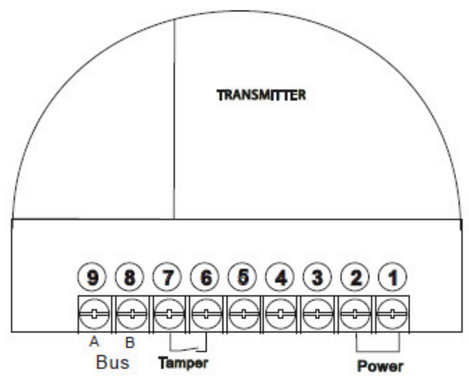
4. Fix the main body onto the wall.



5. Connect the cable to the wire terminal.

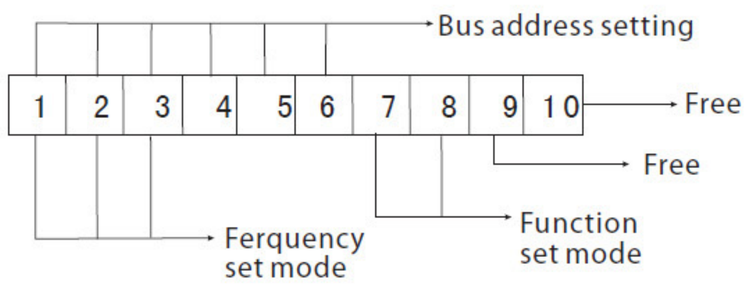




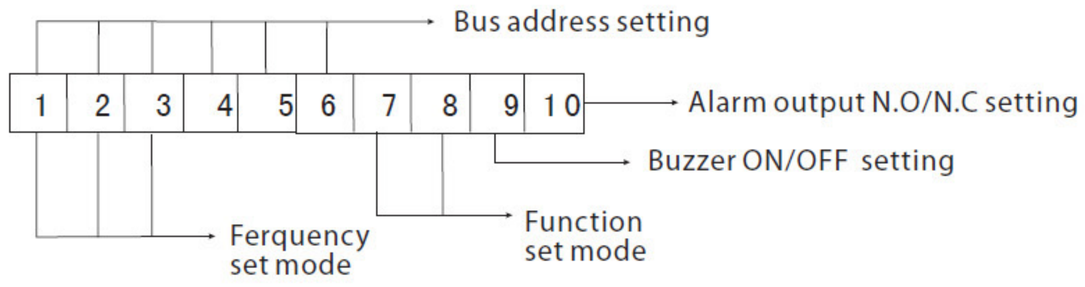


6. DIP switch

Transmitter



Receiver



Ferquency / DIP	1	2	3	4	5	6	7	8
1	OFF	ON	OFF	ON	OFF	ON	OFF	ON
2	OFF	OFF	ON	ON	OFF	OFF	ON	ON
3	OFF	OFF	OFF	OFF	ON	ON	ON	ON

Table1

Mdoe / DIP	Signal strength display mode	Set frequency	Set address of BUS	Address and frequency alternating display mode
7	ON	ON	OFF	OFF
8	ON	OFF	ON	OFF

Table2

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.

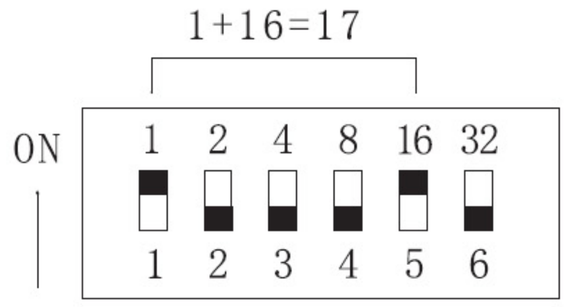
2.Set address of BUS: set DIP 7 at off, DIP 8 at ON to enter address setting mode. The digital display shows the address number, set the address on DIP 1,2,3,4,5,6

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.

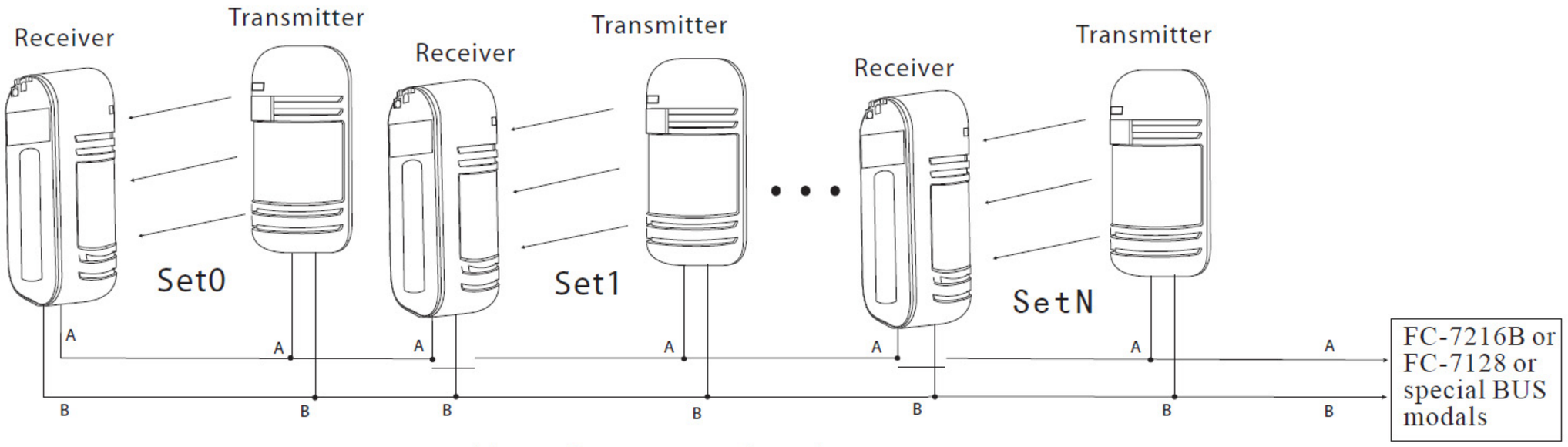
4.Address and frequency alternating display mode, set DIP 7 at OFF, DIP 8 at OFF to enter address and frequency alternating display mode, The DIP1,2,3,4,5,6 under this mode is free.

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 :

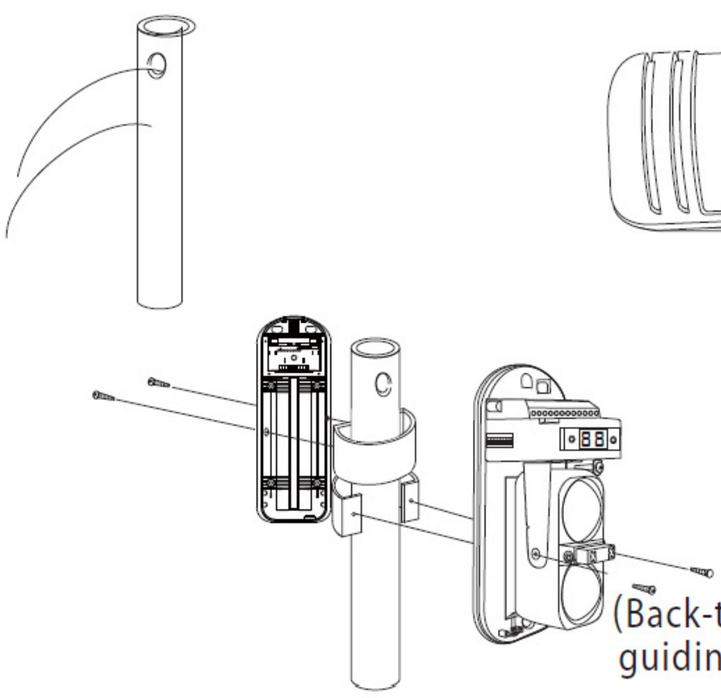


(NOTICE: MUST set BUS address from 0 to 31 in order,N ≤31)

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

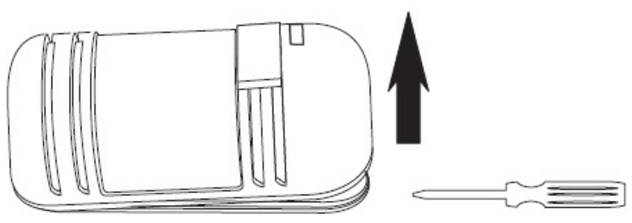
● Installation of fixed bracket

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

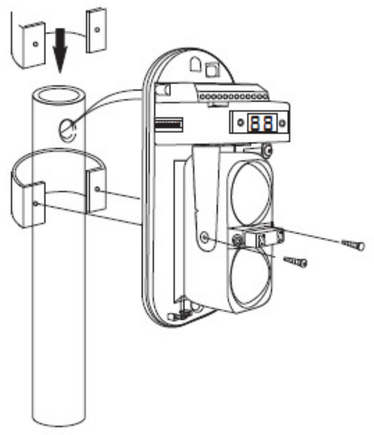


Note」」pleas insert waterproof stopper into the hole of screw.

2. Take off the cover.



3. Fasten the base-plate to the bracket.

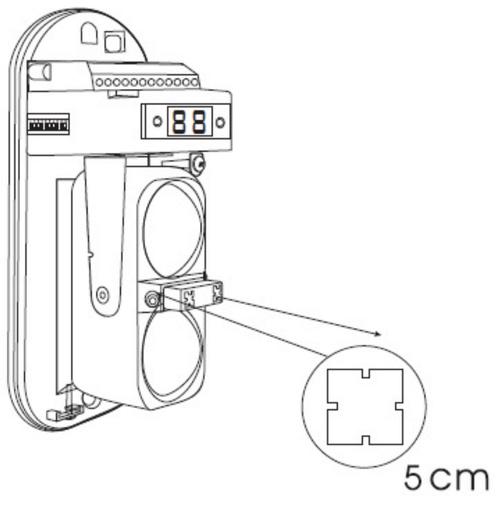


Wiring from power and bus

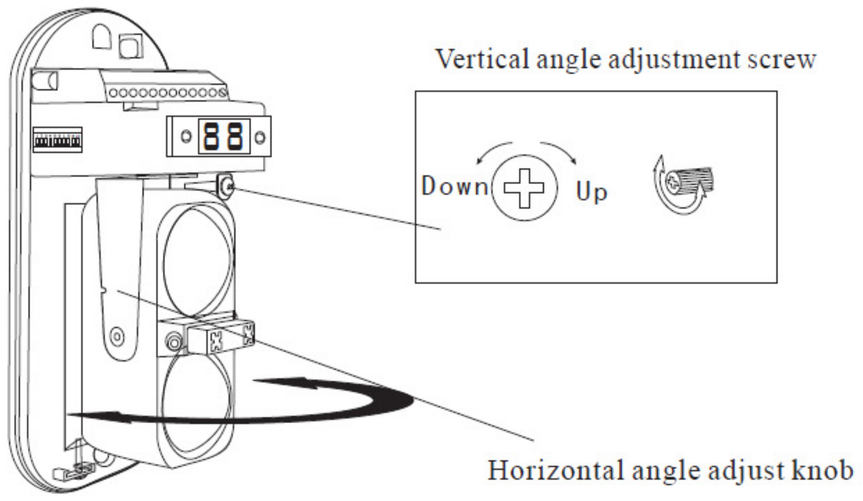
Wire \ Voltage / Distance	DC13.8V	DC24V
0.5mm² (DiameterΦ0.8)	300m	600m
0.75mm² (DiameterΦ1.0)	400m	800m
1.25mm² (DiameterΦ1.2)	700m	1400m
2.0mm² (DiameterΦ1.6)	1000m	2000m

V. Beam alignment

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

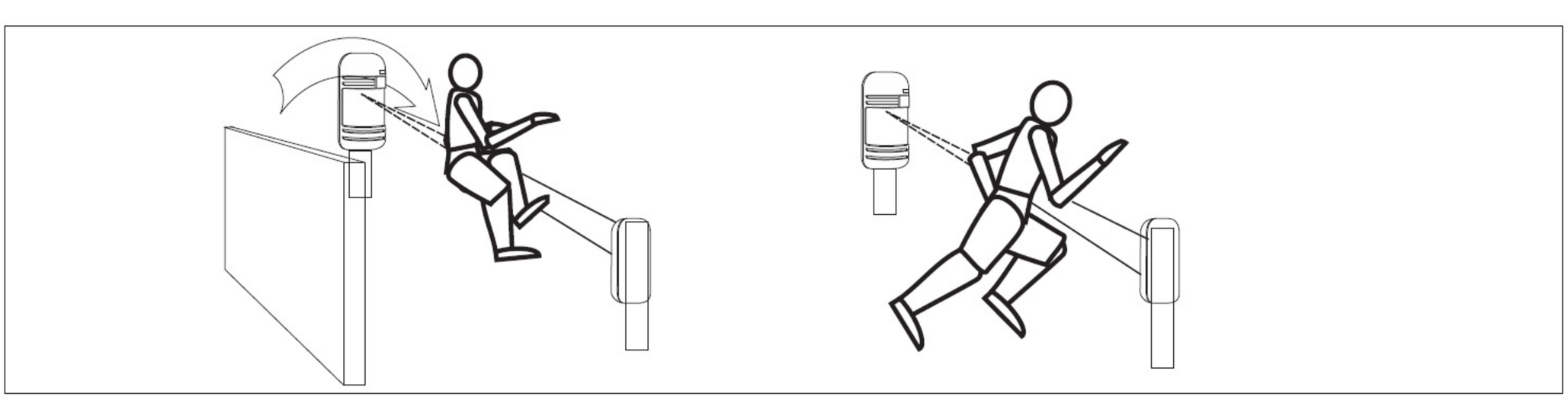


2.Vertical and horizontal adjust as below picture showed to get a best signal strength, if signal strength is less than 1.8, please adjust again to get a better signal strength.



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



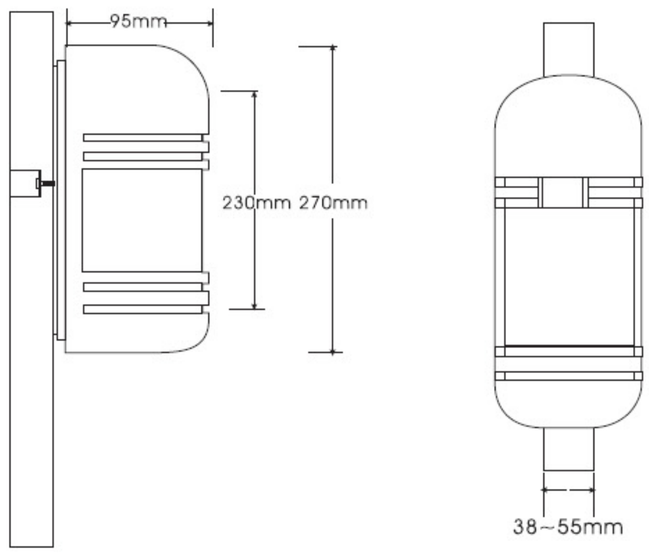
VII. LED

After finish setting, please make walk test.

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

VIII.Dimension.

Physical appearance&dimension



Brackets
optional

T-shaped bracket
T-100
100×120mm
T- 2 00
2 00×120mm

I-shaped bracket
I-100
100mm
I- 2 00
2 00mm

L-shaped bracket
80×75mm