

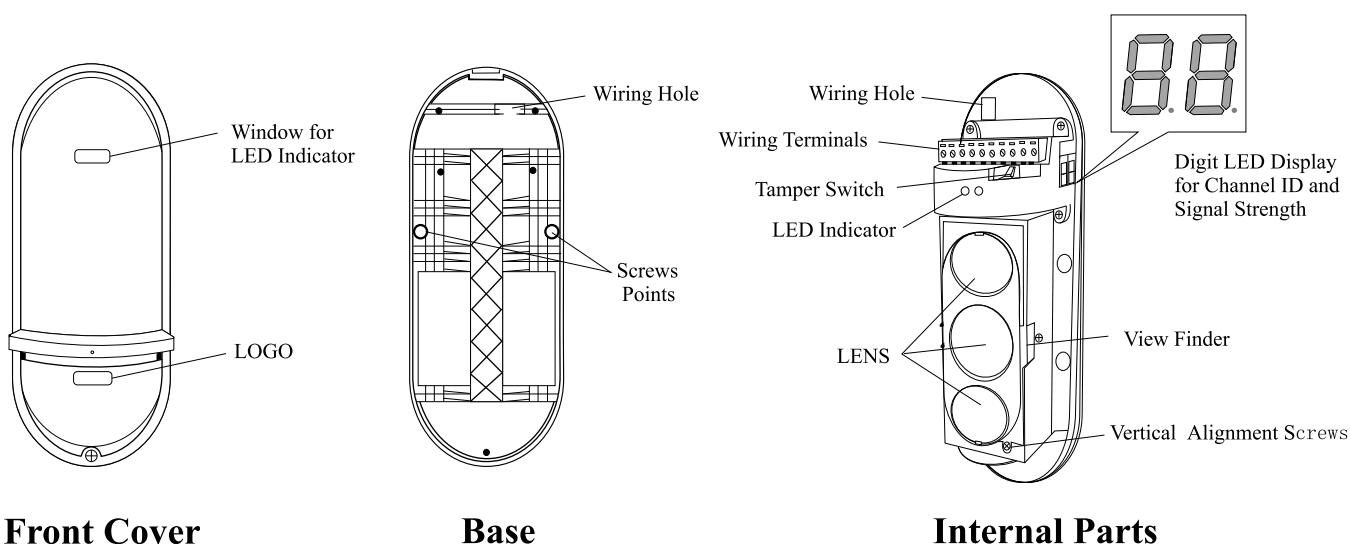
MANUAL

TRIPPLICATE PHOTOELECTRIC BARRIER

8-Channel Frequencies IR Beam Detector

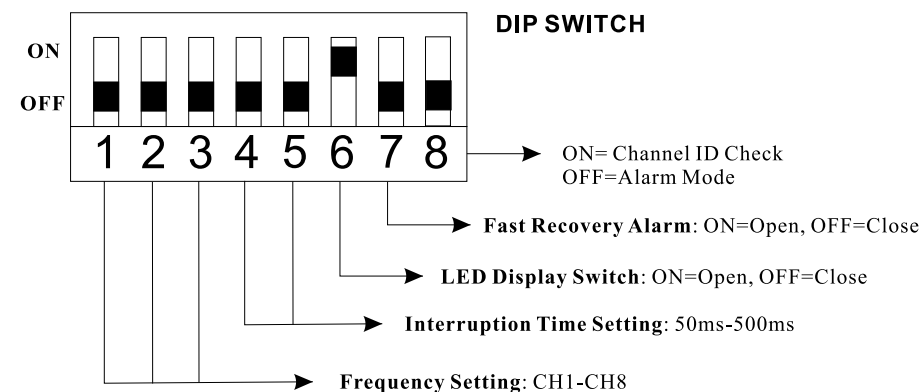
Model: 50m / 100m / 150m / 200m / 250m

1 PARTS DESCRIPTION

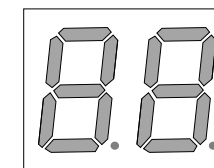


3 DIP SWITCHES & LED DISPLAY

RECEIVER



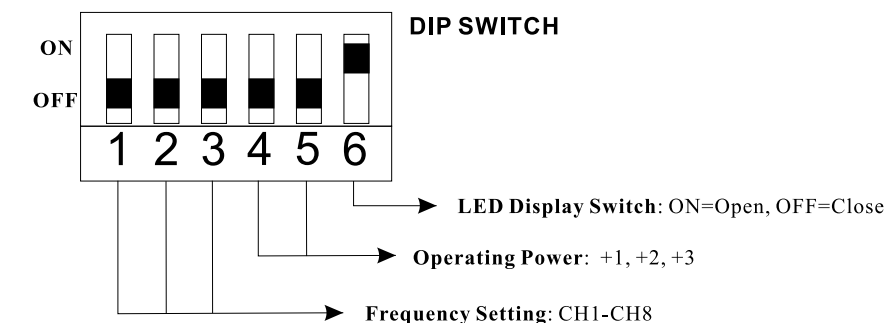
RECEIVER LED DISPLAY



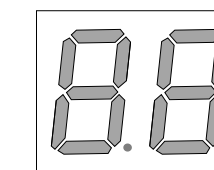
1) Alignment Voltage
0.0-1.5 REALIGN
1.5-2.0 FAIR
2.0-2.5 GOOD
2.5-3.5 BEST

2) Frequency Channel ID
CH 1, 2, 3 ...8

TRANSMITTER



TRANSMITTER LED DISPLAY



Frequency Channel ID
CH 1, 2, 3 ...8

2 WIRING TERMINALS & LED INDICATORS

RECEIVER (RX)									
POWER IN		ALARM OUT			FOG ALARM	TAMPER		POWER OUT	
+	-	COM	NC	NO	NC	COM	NC	+	-
⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘
1	2	3	4	5	6	7	8	9	10

RECEIVER



Terminal 1, 2: Power Input, DC 10-36V / AC 8-24AC

Terminal 3, 4, 5: Alarm Output, N. C. / N. O.

Terminal 6, 7: Fault or Environment Alarm, N. C. (optional)
When signal strength decrease slowly to 0.8v, the detector will activate the fault alarm output

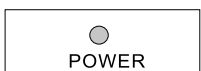
Terminal 7, 8: Tamper Switch Alarm, N. C.

Terminal 9, 10: Power Output, for connecting heater or wireless module

LED Indicator: Power LED is always ON after power on and the Alarm LED is ON in alarm

TRANSMITTER (TX)									
POWER IN		/			TAMPER		POWER OUT		
+	-	/			COM	NC	+	-	
⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘
1	2	3	4	5	6	7	8	9	10

TRANSMITTER



Terminal 1, 2: Power Input, DC 10-36V / AC 8-24AC

Terminal 3, 4, 5, 6: Reserve

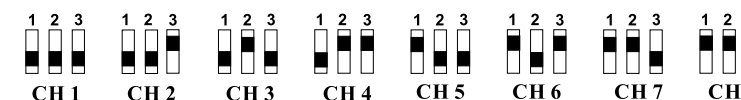
Terminal 7, 8: Tamper Switch Alarm, N. C.

Terminal 9, 10: Power Output for connecting heater or wireless module
The power voltage is the same as the power input

LED Indicator: Power LED is always ON after power on

1) Switch 1-3 (Receiver & Transmitter): Frequency Setting

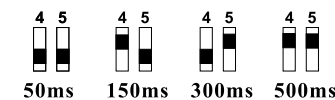
To avoid interference with each other in multiple pairs of installation, please select different frequency channel in each pair of beam detector.



NOTE: The frequency channel ID of the receiver and the transmitter should be the same in operation. Otherwise, the system does not work.

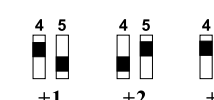
2) Switch 4-5 (Receiver): Interruption Time Setting

Please make interruption time to detect different movement speed (refer to Part 6 Interruption Time Adjustment). 50ms is the most sensitive mode.



Switch 4-5 (Transmitter): Operating Power

In severe environment condition, operating power mode+1, +2 or +3 makes IR beam to achieve the longest protection distance.



3) Switch 6 (Receiver & Transmitter): LED ON / OFF

Close the LED Display after installation for energy saving operation.



4) Switch 7 (Receiver):

When Switch 7 is ON, the alarm output is in Fast Recovery Mode. The relay opens and closes instantly when the IR beams are blocked or aligned. This function is designed for parking sensor or automatic door. When the Switch 7 is OFF, the standard alarm output period is 2 seconds.

5) Switch 8 (Receiver):

ON is for quick frequency channel ID checking. In this mode, there is no alarm output if the beam is triggered. Switch 8 OFF is for alarm mode and the LED display shows the signal strength value 0.0-3.5.



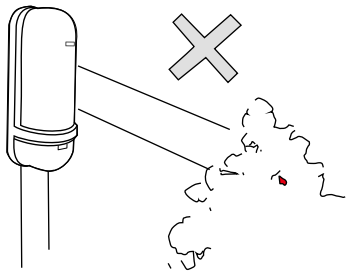
NOTE: Switch 8 ON is for checking the frequency channel ID, please set the switch OFF in protection. Otherwise, there is no alarm output in protection.

6) Digit LED Display (Receiver & Transmitter)

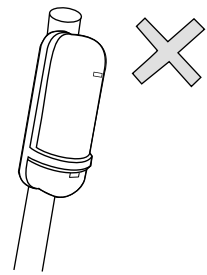
The LED Display of the receiver shows the frequency channel ID numbers at the first 2 seconds after power on. Then the LED display shows the signal strength. If it shows the value less than 0.8, please realign the IR beam. The value 2.0-3.5 is highly recommended for the best performance in real working status. The LED Display of the transmitter shows the operating frequency channel ID only.

4 PRECAUTIONS

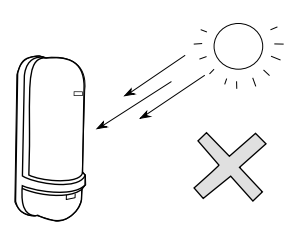
1) Please do not install the system to the following location:



Where there is blocking objects between Receiver and Transmitter

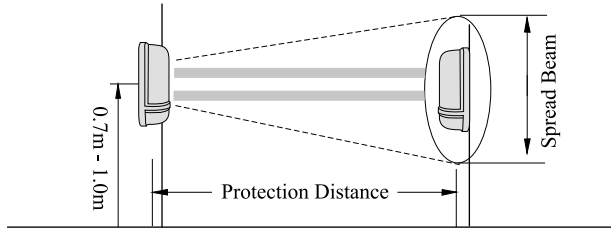


Where the installation base is unstable



Where there is direct sunlight to the detector

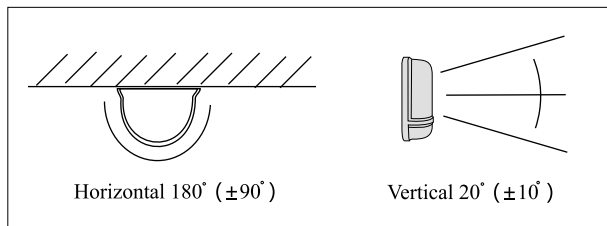
2) Installation Height



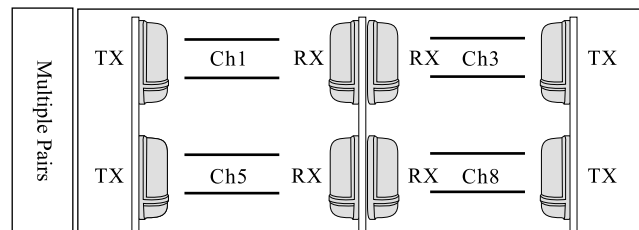
3) Protection Distance

Model	Distance	Spread Beam
50	50M	1.4M
100	100M	2.8M
150	150M	4.2M
200	200M	5.6M
250	250M	7.0M

3) Alignment Angle

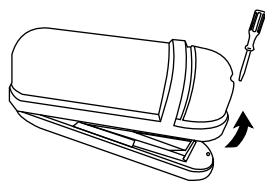


5) Stacking Installation

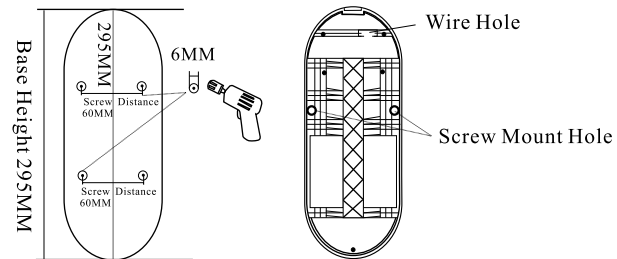


5 INSTALLATION GUIDE

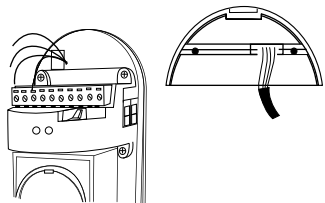
Wall Mount



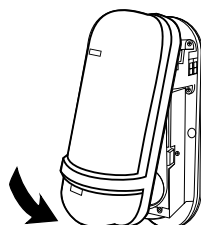
1) Loose the screw and open the cover



2) Drill the mounting holes on the wall and fix the base by the screw

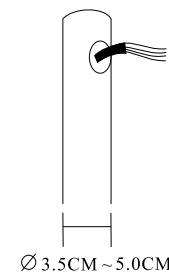


3) Wiring the terminals from the hole and replace waterproof rubber

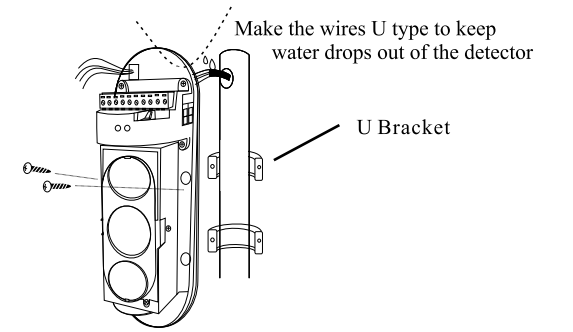


4) After setting, replace the cover and tighten the screw

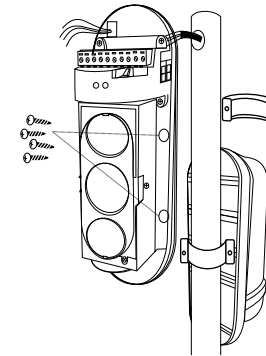
Pole Mount



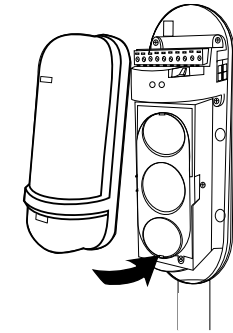
1) Pull out the wires from the pole hole



2) Wiring the terminals and fix the base on the pole by the U Bracket

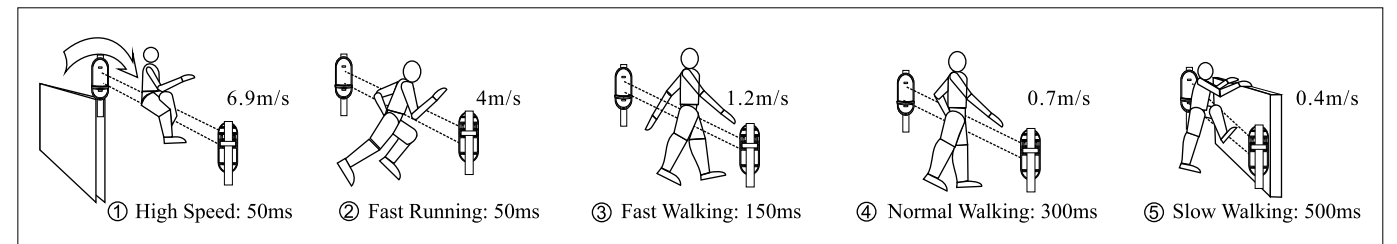


3) Make back to back installation on the same pole



4) After setting, replace the cover and tighten the screw

6 INTERRUPTION TIME ADJUSTMENT



7 SPECIFICATION

Model	50	100	150	200	250
Distance (Outdoor)	50m	100m	150m	200m	250m
Distance (Indoor)	150m	300m	450m	600m	750m
Detection System	Simultaneous blocking of 3 infrared beams				
Response Time	50msec, 150msec, 300msec, 500msec selectable				
Power Input	DC 10-36 / AC 8-24V				
Current Consumption	55mA	55mA	60mA	60mA	60mA
Alarm Output	Form C, Contact capacity: AC / DC30V, 0.5A or less				
Tamper Switch	N.C. open when cover is removed				
Fault Alarm(optional)	N.C. Fault Output when the signal is incompetent				
LED	Red LED Alarm (receiver), Digit LED Display				
Alignment Angle	± 10° vertical, ± 90° horizontal				
Ambient Temperature	- 25 ° C to 55 ° C				
Relative Humidity	95% or less				
Mount Method	Wall or Pole				
Weight	1200g				

8 DIMENSION

