

Four channel Active infrared detectors

Thank you very much for choosing our four-channel frequency active infrared detectors. Make sure you have read this manual at least one time before you use the product.

It will make the installation and use more convenient if you know more about the functions and features of the product, as well as those points for attention.

Features:

- ☆ Digital four-channel frequency technology have higher anti-interference.
- ☆ Adopting plane guarding theory, that is, when the system is armed, it will not be affected by people's activities in and out of the guarding plane.
- ☆ Synchronous and no synchronous compatible.
- ☆ Rugged aluminum construction with sprayed chromate coating to guarantee no discoloring and chipped off.
- ☆ Multi-beams detection, common products include 2, 4, 6, 8, 10 beams. Other number of beams can be set in accordance with customers' specific demands.
- ☆ Special filter lens to enhance the reliability of the product.
- ☆ Built-in LED alignment indicator.
- ☆ Built-in buzzer indicator, intelligent alignment recognition, no need for accurate optical axis alignment and easy installation.
- ☆ Separate swivel bracket, easy to be installed on the wall or any angle in the horizontal direction.
- ☆ Separate anti-tamper output to support different guarding level.
- ☆ Advanced "Three-in-one" detecting technology, high sensitivity and reliability, suitable for different environments and installation, especial in outside harsh environment.

Choose a Location:

1. Avoid objects to break beams between transmitter and receiver. Wind will not directly cause false alarms, but could cause leaves or similar objects to fly or wave into the beams. Do not mount near trees, bushes, or other leafy vegetation.
2. Do not mount near reflective surfaces.
3. Do not mount where the detector could be splashed by water or mud.
4. Do not mount where pets could accidentally break the beams.
5. If the detector is used outdoors, install it under a roof or shelter. This will reduce the chance of false alarm caused by rain or snow.

Attentions:

1. Do not switch on the power supply when it is not finished the installation or not sure the wiring is correct.
2. If it is necessary to replace detector, please replace both transmitter and receiver at the same time.
3. Set all functional jumper as introduced in this manual.

4. Take good care of the unused attachments.
5. Locate the units face to face with the terminal block side in the same direction.
6. It is recommended to install the barrier with the terminal block side facing down. If units must be placed so wires are at top, seal the opening with silicone to prevent water from leaking in.
7. The detector must not be used to exceed the maximum range.
8. If any situation of slow response or no alarming occurs, adjust the transmitting power.

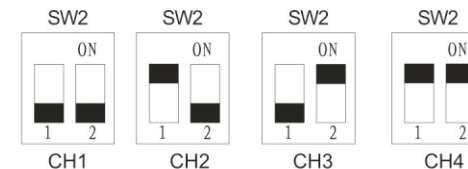
Installation:

1. Choose a suitable place to install the detector.
 - A. The transmitter and receiver both can be installed on the surface of the wall, the stand, the installation pole, etc. When the installation brackets is applied, the detector can be fixed at any angle in the horizontal direction.
 - B. Determine the height between the bottom block and the ground according to the different guarding levels.
 - C. Keep the transmitter and receiver on the relative horizon.
2. Open the covers of the top and bottom end caps, mark their location on the wall and drill mounting hole.
3. Pull downward of the end cap in which there is terminal block, and get the circuit board out of the aluminium alloy case. Pay attention to the connecting wire of the circuit board. Set every jumper as required.
4. Put back the circuit board with care.
5. Pull off the thin-wall of the cover or bracket by pliers in accordance with the place where the leading wire come out.
6. Filling every mounting hole with plastic expansion. According to the specific situation, decide whether to use the swivel bracket and fix the detector with setscrew.
7. Put on the cover, and screw it up.

Set jumper

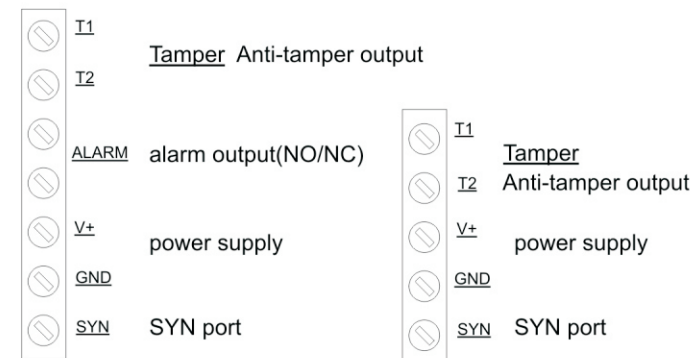
Receiver		
Select mode (must reset the power supply)	SYN SW4 Need synchronous line mode	SYN SW4 No synchronous line mode
Buzzer	SW3 OFF	SW3 ON
Trigger mode	SW5 Adjacent	SW5 Any beams
Alarm indicator	Red LED lights on	
Power indicator	Red LED lights normally on	
Transmitter		
Adjustment of transmitting power	SW3 SW4	Max. Power
		Strong Power
		Weak Power
		Min. Power
Trigger mode	SW5 Adjacent	SW5 Any beams
Power indicator	Green LED lights normally on when power is proper.	

Frequency select



Note: Both the transmitter and receiver of each pair must be set to matching frequencies and transmitting power to work together correctly.

Alarm Output



Parameters

Distance	5m \ 10m \ 20m \ 40m \ 60m \ 80m \ 100m (Outdoor)
Voltage	12V DC (10.5-15V DC)
Current	≤ 100mA
Response time	≤ 40mS
Trigger mode	Breaking of adjacent or any beams
Alarm output	NO/NC relay output Capacity: 0.5A 125V AC, 1A 24V DC
Tamper output	NC switch: 0.1A 125V DC
Buzzer hint	Buzzer while alarming
Temperature	-35℃ — +55℃