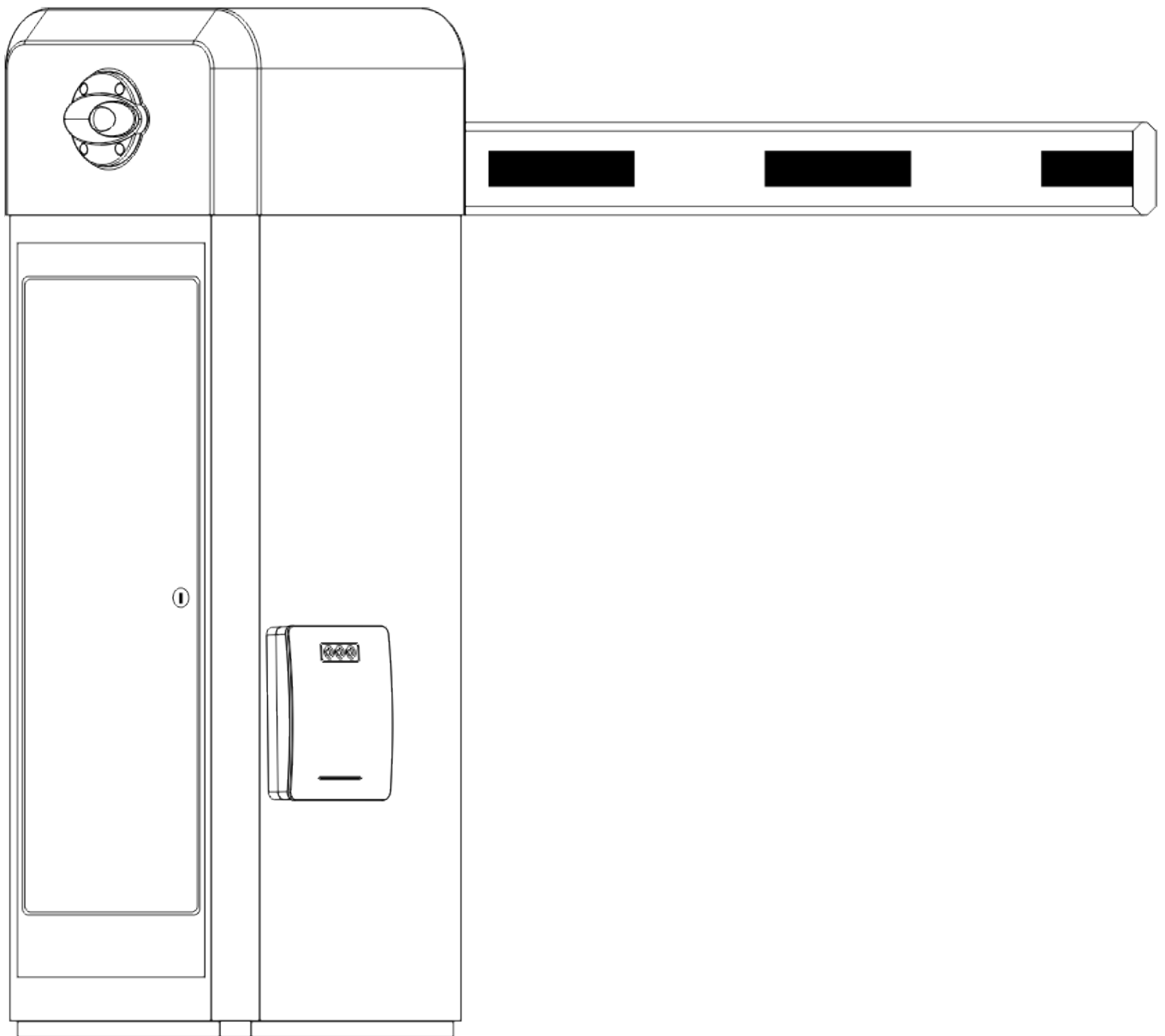


RD24-6M Radar Detector User Manual



1.How To Install The Radar Detector

1.Please choose a power adapter output 9-24VDC 1A for independently power supply.

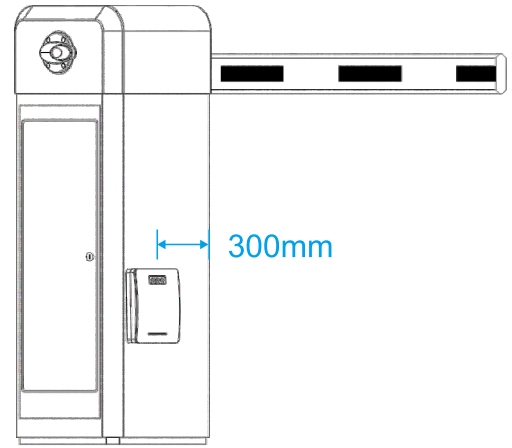
2.When using a brake controller for power supply, please ensure that the output current is not less than 200ma.

3.When applied to lanes, the best height between the radar center and the ground is 50-60cm.

4.The distance between the center of the radar and the fence pole, the octagonal fence is not less than 25cm, and the right angle fence is not less than 30cm.

5.The radar shall be installed perpendicular to the horizontal plane and be fixed reliably.

6.The ground within the detection range should be flat without any obstacles. When the angle between the passing vehicle and the radar is greater than 30 degrees, please set up road barriers to guide the vehicle through.



2.Wiring Definition

Color	Function
Red	Power supply input +12VDC
Black	Power supply input GND
Yellow	Set button input port
White	Input GND
Orange	Relay normally open NC
Brown	NC
Blue	Relay normally open COM
Green	Relay normally open NO




3.The Meaning Of The Indicator Light And Function Menu (Red LED)

Menu settings function check table




Menu	Setting function	Default(Factory)
1	Detection distance: The reading corresponds to a distance of 1-6meters	3meters
2	Sensitivity: Reading value 1: Low , 2: Middle , 3: High It is used to set the factory default value when the reading is 6	2
3	Gate closing speed: Reading 1-6 corresponds to time 2-12 seconds	6 second
4	Man and cars separation: reading number 1-man and cars do not distinguish, 2 - distinguish	2
5	When relay output delay : Reading value corresponding to a delay time of 0-6 seconds	0s presence of 1-6 pulses
6	Setting: 1-Straight bar barrier , 2-fence barrier , 3-plus signal output	1

Note: Press and hold the function key for 5 seconds to enter the menu mode




LED indicator light (3 pcs RED led)

Function menu	1 	2 	3 
Menu1	ON	OFF	OFF
Menu2	OFF	ON	OFF
Menu3	OFF	OFF	ON
Menu4	ON	OFF	ON
Menu5	OFF	ON	ON
Menu6	ON	ON	ON




Menu1 Detection distance content details (The indicate light was the green LED, The indicator LED has three states: 1. ON , 2. FLASH , 3. OFF)

Menu1	1 	2 	3 
1meter	ON	OFF	OFF
1.5meter	FLASH	OFF	OFF
2meter	OFF	ON	OFF
2.5meter	OFF	FLASH	OFF
3meter	OFF	OFF	ON
3.5meter	OFF	OFF	FLASH
4meter	ON	OFF	ON
4.5meter	FLASH	OFF	FLASH
5meter	OFF	ON	ON
5.5meter	OFF	FLASH	FLASH
6meter	ON	ON	ON




Menu2 Sensitivity content details (The indicate light was the green LED, The indicator LED has three states: 1. ON , 2. FLASH , 3. OFF)

Menu2	1 	2 	3 
Low sensitivity	ON	OFF	OFF
Middle sensitivity	OFF	ON	OFF
High sensitivity	OFF	OFF	ON
Factory default	FLASH	FLASH	FLASH




Menu3 Details of closing speed (The indicate light was the green LED, The indicator LED has three states: 1. ON , 2. FLASH , 3. OFF)

Menu3	1 	2 	3 
2second	ON	OFF	OFF
3second	FLASH	OFF	OFF
4second	OFF	ON	OFF
5second	OFF	FLASH	OFF
6second	OFF	OFF	ON
7second	OFF	OFF	FLASH
8second	ON	OFF	ON
9second	FLASH	OFF	FLASH
10second	OFF	ON	ON
11second	OFF	FLASH	FLASH
12second	ON	ON	ON




Menu4 Man and cars distinction content is detailed (The indicate light was the green LED, The indicator LED has two states: 1. ON , 2. OFF)

Menu4	1 	2 	3 
Not distinguish	ON	OFF	OFF
Distinguish	OFF	ON	OFF

Menu5 The relay content details. (The indicate light was the green LED, The indicator LED has two states: 1. ON , 2. OFF)

Menu5	1 	2 	3 
Existence output	OFF	OFF	OFF
1second(Pulse mode)	ON	OFF	OFF
2second(Pulse mode)	OFF	ON	OFF
3second(Pulse mode)	OFF	OFF	ON
4second(Pulse mode)	ON	OFF	ON
5second(Pulse mode)	OFF	ON	ON
6second(Pulse mode)	ON	ON	ON

Menu6 Barrier gate or function content details(The indicate light was the green LED, The indicator LED has two states: 1. ON , 2. OFF)

Menu6	1 	2 	3 
Straight pole gate	ON	OFF	OFF
Fence pole gate	OFF	ON	OFF
Pulse count	OFF	OFF	ON

4.How setting And Saved The Radar Parameter

- 1.The first step: Enter the menu: Press the function key (do not release) until the menu number to be set is selected and release the key, the corresponding parameter green light will be on.
- 2.The second step: amend parameters: Change the current parameter by clicking on the function key.
- 3.The third step: Save parameters: Press and hold the function key, when the red indicator lights 1, 2, 3 flashing at the same time and then release. The parameters will be changed and saved.

5.Quick Setting (Items Must Be Set Up)

- 1.Straight pole lane application settings(Only need 2 steps)
The first step: Set the application scene to straight rod mode (Menu6)
The second step: Set the detection distance(Menu1)
- 2.Fence lane application settings(Only 3 steps)
The first step: Set the application scenario to fence mode(Menu6)
The second step: Set the detection distance(Menu1)
The third step: Set the gate closing speed (Accurate to 1 second) (Menu3)
- 3.Trigger mode application settings(Only need 3 step)
The first step: Set the application scenario to trigger mode(Menu6)
The second step: Set the detection distance(Menu1)
The third step: Set the reply output method (menu5)

6.Optimize Radar Detector Settings (Select Setting Items)

1. Sensitivity setting: The recommended setting for electric vehicles is middle or low, and the setting of pedestrian passageway is middle or high. On the occasion of shooting, you can set one in the middle and the other set in high or low.
2. Pedestrian and vehicle distinction setting: (It is strongly recommended to set the distinction between man and vehicle in non-necessary situations) .Electric vehicle passage or pedestrian passage should be set to "No distinction between pedestrians and vehicles". Otherwise, Please set the " distinction the pedestrian and the vehicle" to prevent closing gate accidents caused by non-vehicle passing.
- 3.Relay output delay, in trigger mode, when the delay is set to 0, it is as vehicle presence output, otherwise it is pulse output, and the pulse output time range is 1-6 seconds.

7.How To Debug On Site?

1. Straight pole lane mode
After the brake bar lever raised, the palm triggers the radar at a close range, and the gate will automatically close after leaving. Within the set detection distance, the brake lever rebounds when the human body approaches the brake lever. The brake lever can automatically close in place when the human body is far away from the brake lever. (Used to change the closing gate speed parameter of high-speed gates, the response speed of the radar can be adjusted).
2. Fence lane mode
If the remote control gate is opened and closed in place repeatedly, the fence will not trigger the radar. After completion, test in the same way as the above-mentioned straight pole lane.(If the radar of any of the above links is activated by the fence itself, please eliminate according to section 12 "General troubleshooting" article 1).
3. Trigger mode
Refer to the debugging method of the straight pole lane mode

8. General Troubleshooting

1. The radar is triggered by the fence itself during opening or closing.

Check whether the distance between the radar and the center of the fence is in accordance with the installation requirements and whether the radar installation surface is vertical with the fence pole. Please adjust the installation position or add a 2-4mm spacer to the side of the radar close to the fence.

Whether the set opening speed is greater than the actual closing gate speed.

Whether there is no distinction between people and vehicles, if it is necessary to set the distinction between people and vehicles, the sensitivity can be lowered by one level.

2. Radar output has not been reset

The set distance is greater than the lane or a foreign object on the ground is detected, Or the radar is not installed vertically. If you still can't solve the problem after troubleshooting, please enter menu 2 to select until the 3 green lights while flashing at the same time, and then long press the function key to perform "Radar Initialization". After the initialization is completed, please power on again.

3. The three lights are always on after the radar is powered on.

The radar initialization was unsuccessful, and it still doesn't work after repeated restarts, please return to the factory for inspection.

4. The green light number 1 and number 3 flashing

When the radar judges that the gate under the state of closing is triggered, or there is a rebound signal at the edge of the X beam, the radar cannot distinguish whether it is a fence or a vehicle. And then after open the gate or the signal disappears, there is no vehicle through, it will the delay open the gate. It is a safety mechanism to prevent smashing the rear of the car and does not need to be dealt with.