TP-1039

TONGBAO

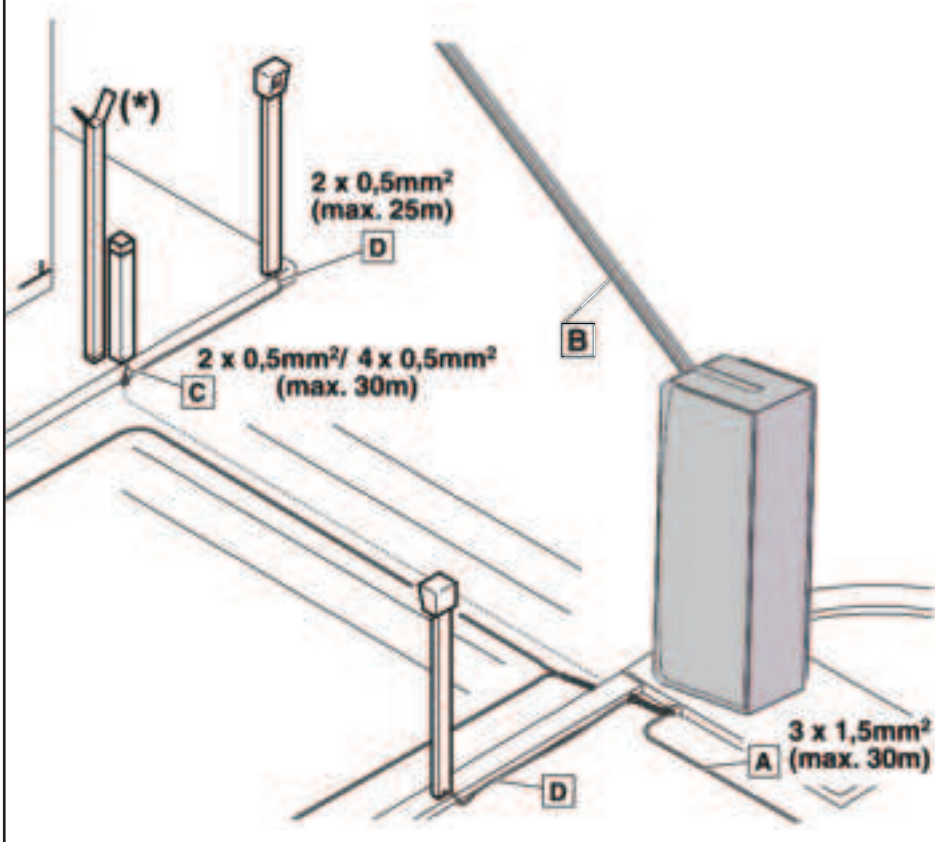
Product manual

English

Product Introduction

The intelligent TP-1039 barrier is a new type of barrier launched by TongBao Parking. It adopts digital control technology to monitor the entire barrier operation process, which can realize intelligent and simplified barrier operation management. The wireless remote control can be used to raise, lower, stop or operate the manual button. The barrier movement adopts a specially designed integrated movement. The frame, reducer and transmission mechanism are integrated to minimize the vibration of the machine body, greatly improve the operating accuracy of the barrier, and ensure the safe and reliable operation of the barrier. At the same time, it can adapt to the tension spring to deal with The rod length adjustment is highly safe , intelligent , modern and user-friendly. The chassis surface has exquisite color matching, electrostatic dust high temperature paint (180 degrees ~ 250 degrees) is anti-corrosion, anti-fading, anti-falling, easy to maintain, with delicate surface texture, beautiful and elegant, and timeless. The gate can be equipped with a variety of anti-smashing systems, ground sensing, pressure wave, infrared and other anti-smashing functions

Elements of the complete installation



→ The diagram shows a TONG BAO Bi-Directional barrier

Wiring

A: Main power supply

3x1.5mm2 (max. 30m)

B: Boom arm

C: Photocells (Tx / Rx)

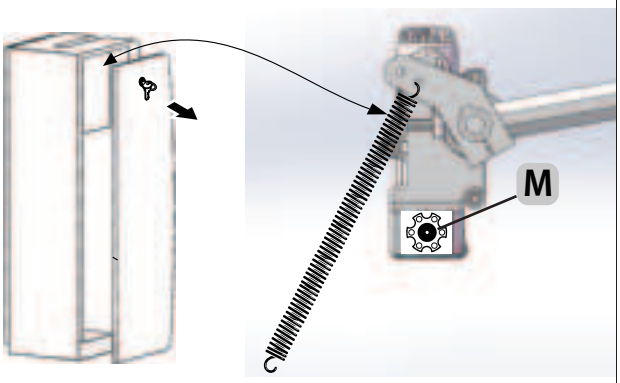
2x0.5mm2 / 4x0.5mm2 (max. 30m)

D: Key switch

2x0.5mm2 (max. 25m)

Manual drive

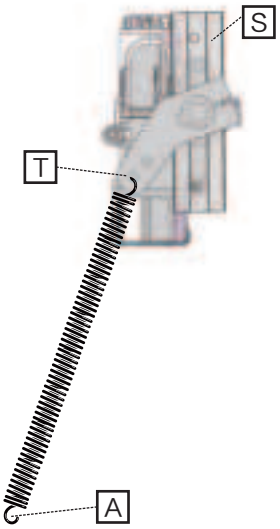
After the servo motor is powered off, it can be manually lifted by the barrier gate arm.



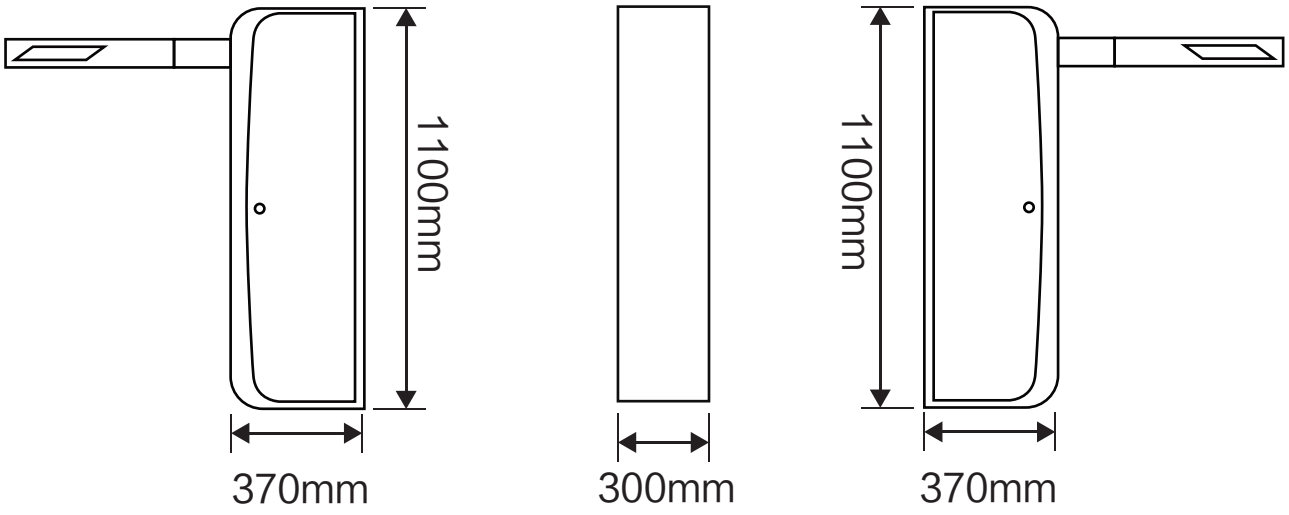
Opening the upper cover

If the spring(s) must be changed, do this before installing the barrier and arm.

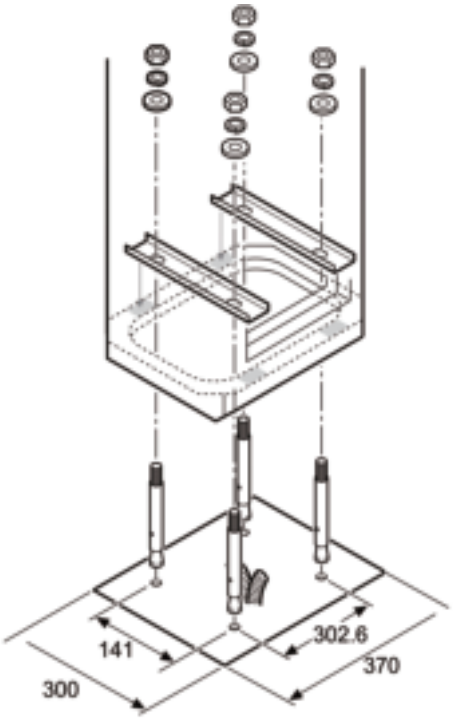
1. Place the arm bracket (S) in vertical position.
2. Loosen the bolts (T) anticlockwise until the spring(s) lose tension. Completely remove them.
3 .Remove the spring(s) by detaching them from the lower anchor (A).
4 Position the new springs in the same way as the previous ones.
5 Screw the bolts (T) and balance the barrier as described below. If there are multiple springs, these must have the same tension, meaning the bolts (T) on both springs must be tightened equally



Bi-Directional Boom Barrier TP-1039



Mounting on the ground



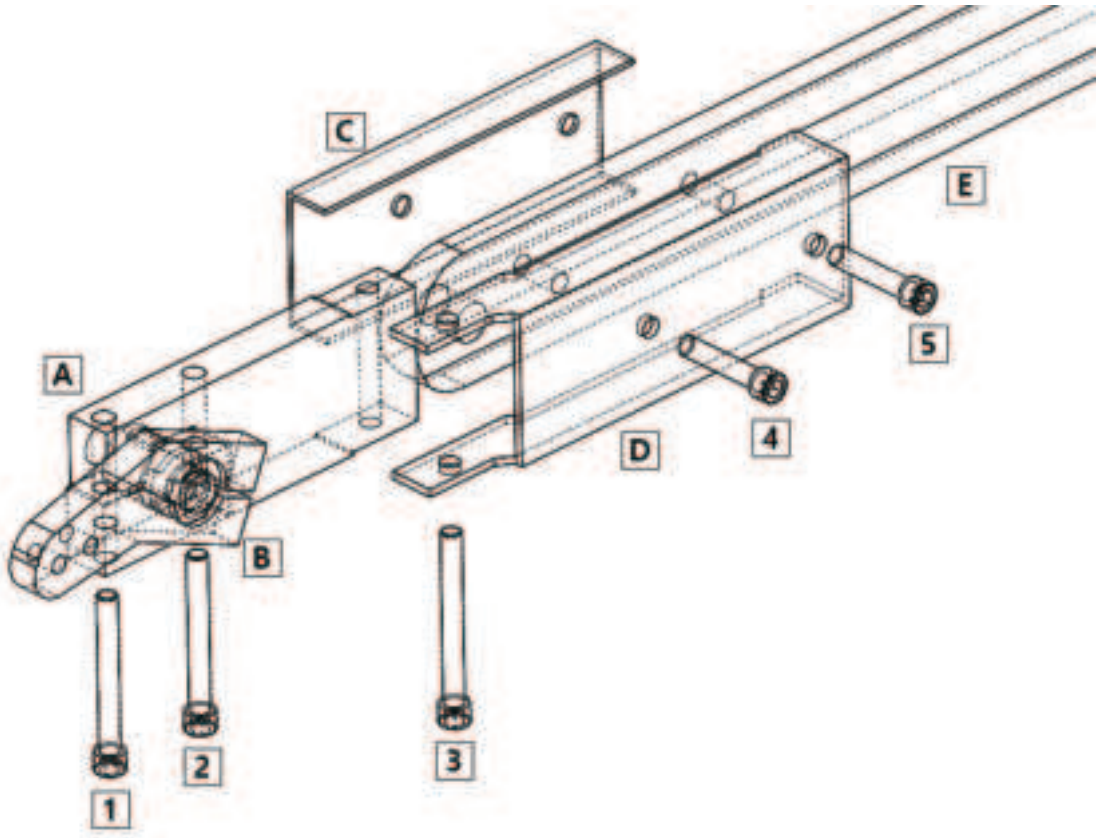
Select the appropriate size of the gate controller according to the specific conditions of the site. Use expansion bolts as shown in Figure 3 to fix the machine on the ground.

After determining the location, prepare the foundation for the barrier gate according to the on-site conditions. For non-concrete floors, make sure to construct a cast-in-place foundation.

Prepare a firm base and fasten the barrier with the elements supplied:

- Expansion bolts * 4
- Flatbars * 2

Installation of barrier gate arm



※ A and B are clamping heads, used to hold the power shaft.
1 and 2 are mounting bolts

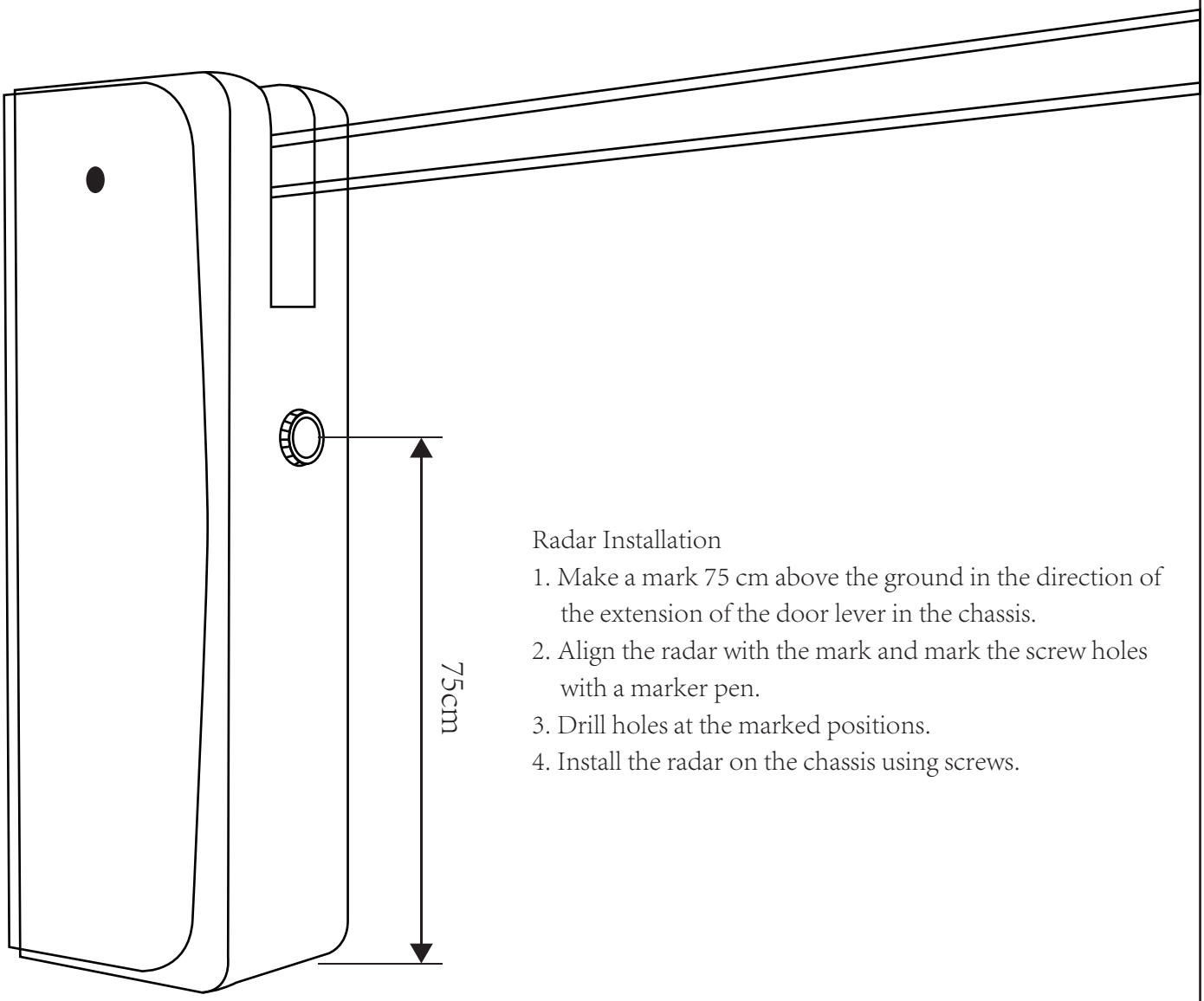
※ C and D are used for fastening the chuck and the gate lever.
3 Locking screws for C and D

※ E represents the barrier gate.
4 and 5 are used for fastening the gate clamp and the gate.

※ **Note:** When tightening the chuck, the angle must be adjusted properly beforehand. Avoid incorrect angles

Product specifications and structural parameters

Model	TP-1039
Body Specifications	1010*370*300mm
Chassis technology	Cold rolled sheet high temperature paint
Motor brand	City-State
Start time	The fastest speed for a straight pole within 4 meters is 1.5 seconds,
Drop time	The fastest speed for a straight pole within 4 meters is 1.5 seconds,
Input voltag	AC220/AC110 50/60HZ
Operating voltage	24V 8.5A
Rated Power	100 W
Motor operating	-30℃-80℃
Maximum rod length	Straight pole 6 meters
Remote control distance	Open area ≤50M
Remote control frequency	430MHz
Protection level	IP65
Body color	Yellow,Red, Silver
Weight	60KG+4KG (chassis+pole)
Standard factory	2 remote controllers, 4 handle screws M10*90mm



Radar Installation

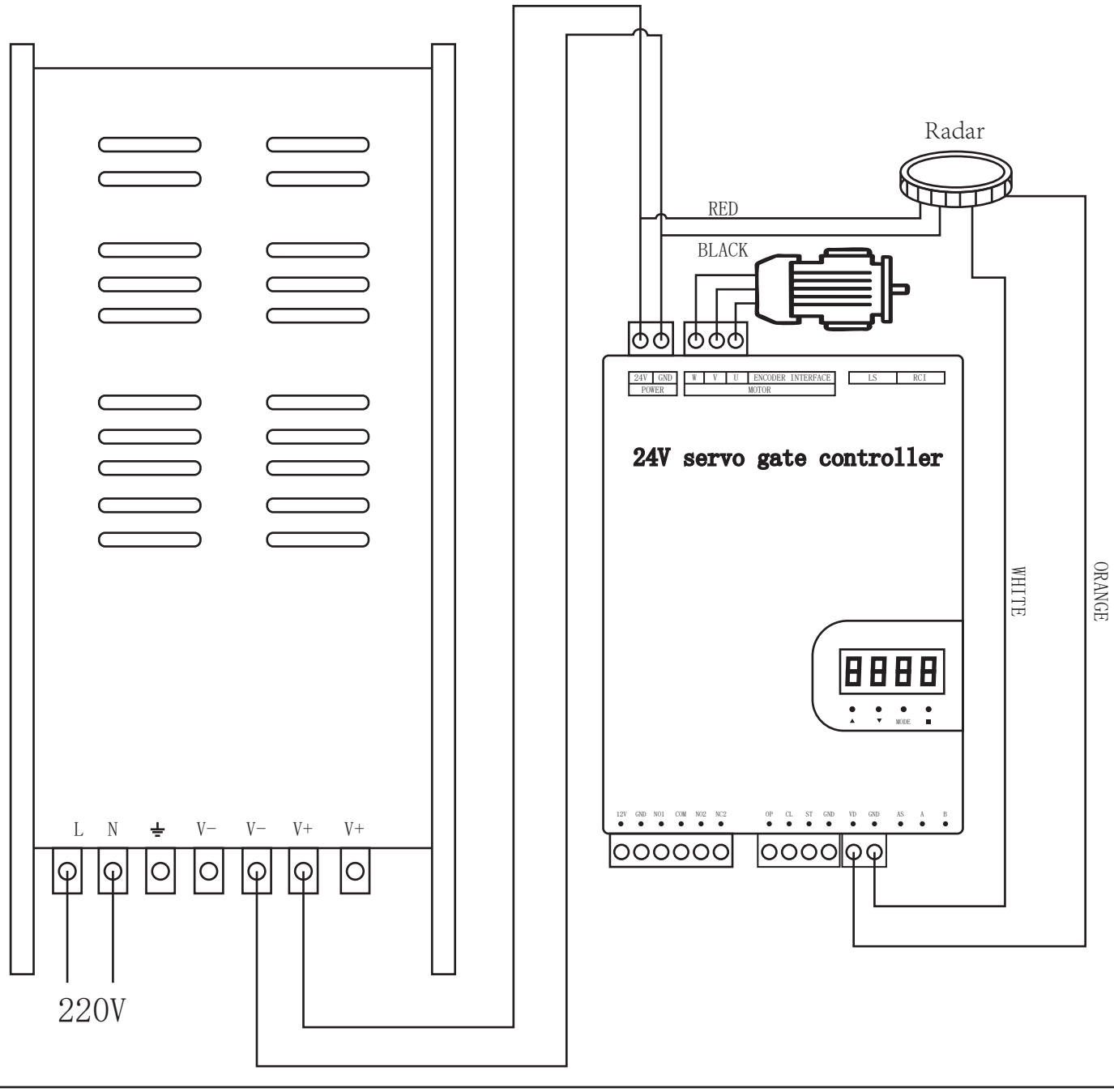
1. Make a mark 75 cm above the ground in the direction of the extension of the door lever in the chassis.
2. Align the radar with the mark and mark the screw holes with a marker pen.
3. Drill holes at the marked positions.
4. Install the radar on the chassis using screws.

Radar installation

There are red, black, white and orange lines on the radar, and they can be connected according to the wiring diagram. During the test, it is necessary to ensure that there are no obstructions within a 5-meter radius of the radar's irradiation area.

The detailed installation steps can be viewed by scanning the QR code below to watch the video tutorial.

Circuit connection diagram



Function Catalogue

P-00 Open arm speed	P-01 Close arm speed
P-02 Open arm deceleration angle	P-03 Open arm end speed
P-04 Downswing Deceleration Angle	P-05 Downswing End Speed
P-06 Take-off acceleration time	P-07 Downswing Acceleration Time
P-08 Horizontal Position Trim	P-09 Vertical position fine adjustment
P-10 Motor Type	P-11 Remote control learning method
P-12 Remote control learning	P-13 Remote control fleet mode
P-14 Trigger time for rebound	P-15 Rebound force
P-16 Bounce angle	P-17 Learn Limit Speed
P-18 Find Limit Mode	P-19 Manually Learning Upper Limit
P-20 Manually Learning Lower Limits	P-21 Manually Learning Upper and Lower Limits
P-22 Take-up lever rebound buffer time	P-23 Down Lever Bounce Buffer Time

P-24 Stop buffer time	P-25 Starting bar deceleration end angle
P-26 End angle of deceleration of falling bar	P-27 Anti-smashing function
P-28 Locking power	P-29 Open position locking time
P-30 Locking time in closed position	P-31 Reverse Locking Turns
P-32 No ground sensing auto drop time	P-33 Passing delay time
P-34 Loop detector count	P-35 Loop detector non-detection angle
P-36 Loop detector trigger buzzer frequency	P-37 Loop detector signal trigger judgement time
P-38 Loop detector signal validity judgement time	P-39/
P-40/	P-41/
P-42 Priority for open arm	P-43 Lever Start Signal Judgement Time
P-44 Relay Output Mode	P-45 Light Sensitive Value
P-46 Light Sensitive Value	P-47 Delay On
P-48 Delay Off	P-49 Ambient Temperature
P-50 Antifreeze Temperature Smell Value	P-51 Antifreeze Lift Angle
P-52 Antifreeze Lift Time Interval	P-53 Rustproof opening angle
P-54 Rustproof Lift Interval	P-55 Setting 485 baud rate
P-56 Setting 485 address	P-57 Controller master-slave mode
P-58 Number of times to close the gate automatically after manual lever up	
P-59 Automatic test	P-60 Restore Default Settings
P-61 Parameter Backup	P-62/
P-63 Adaptive mode	P-64 Timeout for gate start/fall
P-65 Power failure auto start/stop voltage	P-66 Brake recoil voltage warning value
P-67 Digital display of drive voltage and drive current	
P-68 Trigger the ground-sensitive gate to pause when the pole is dropped.	
P-69 Power failure automatic operation function	
P-70 Customised parameter setting	P-71 Over-current protection value
P-72 Power supply power	
P-73 Automatic speed of pole drop without ground sensing	
P-74/	P-75/
P-76/	P-77/
P-78 Auto send gate status data	P-79/
P-80/	P-81 Adaptive mode learning limit power
P-82 Bluetooth connection	P-83 Pole lift loop detector without detecting angle