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## Toll Gate

For modern toll station, it is important to meet special demand on speed and reliability. Meanwhile, working well in different atrocious weather is also crucial. SJSPD003 serial is special designed for these special demands, they keep outstanding reliability at fast speed and easy of use. With standard inputs/outputs, they are easy to be integrated with different access control systems.

### Field of Application:

1. Express way
2. Airport, supermarket and large parking lot with heavy traffic flow
3. Toll road with high requirement
4. Vehicle access control with different requirement, such as school, hospital  
Living zone, government, etc

### The Master Controller :

1. The master controller employs the hi-reliable microprocessor
2. The system features high integration and strong logic functions
3. The master controller is equipped with the interfaces for connecting the auto charging system, loop indicator and signal lamp
4. The master controller has multiple operation modes to meet different requirements;



### 5. Assistant extension function

- a) Deceleration and stop, improve the stability of stopping

- b) State display function, working state of lever displayed
- c) Count function
- d) Adjustment of total operation time, adjust the total time from executing order to stopping operation
- e) Adjustment of auto falling time, adjust auto falling time
- f) Adjustment of travel switch, change the stability of stopping lever

6. Located on the back of door, easy to access and configure from the cover.

## The Motor

The core technology employs special 220V torque motor

- a) The maintenance-free motor is employed, which may be stopped at any position without any damage. When it is at the two ends, the power shall be reduced to be 20W it may save the energy, avoid the conditions of condensation and corrosion, and it may be also operated normally in extremely climates.
- b) The driving motor employs the sine generator , on which the speed-down device is taken off to make the whole structure more compact and reasonable, it may reduce the mechanical failures greatly
- c) The special winding structure may help to avoid the instant heavy current and instant voltage fluctuation in the moment of electric connecting or breaking, it may be powered by UPS and other equipment in the same power network maybe normally worked



## The Arm

It is made of special aluminum material with glistening film cover, which is readily visible even at night . In some places, such as underground parking lot, where the vertical height is restricted, the barrier can be supplied with articulated boom at extra cost. With swing-away functionality, the arm will rotate 90 degrees reduce the damage to the arm and vehicle in case of forced drive-through.



## The Housing

Made by special steel plate and it painted by the bisque or nacarat powder coating, which may not only prevent corrupting, but also may avoid fading for the ultraviolet radiation. The standard color is orange and yellow, other color will be decided by customer if possible. The master controller and vehicle detector are mounted on the mounting plate and it is convenient to maintenance when unlock the door , also the cover is east to open for maintenance.



## All-round safety protection function

**LED red/green signal lamp:** switch the passing signal for vehicle (optional)

**Infrared ray protection:** it may be detected if the people walk through the lever to avoid any possible accident (optional)

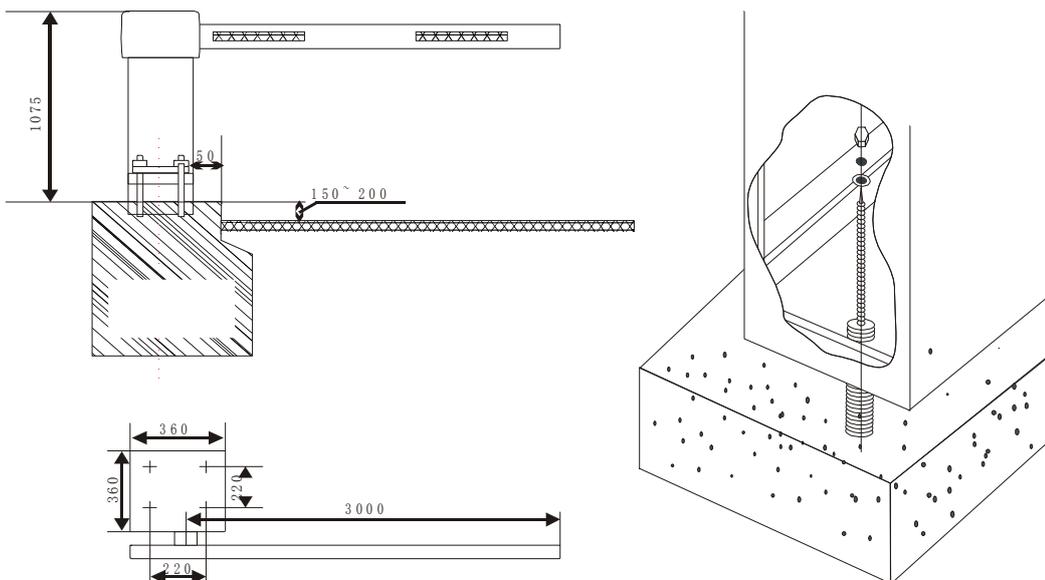
**Remote control:** the wireless remote controlling is available with the effective distance longer than 25m (optional)

**Falling protection:** With the induction coil, the arm never falls down when the vehicle is under the arm (optional)

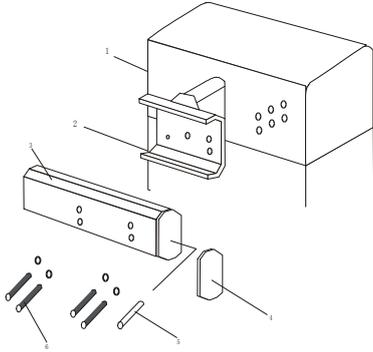
## Parameters

Technical Data	SJSPD003A	SJPD003B	SJPD003C	SJPD003D
Voltage	AC220V+/- 10%, 50/60Hz or AC110V+/-10%, 50/60Hz			
Rated power	80W			
Rated Torque	30r/min	20r/min	15r/min	10r/min
Max Boom Length	2.5m	3.0m	4.0m	6.0m
Openning/Closing time	0.9s	1.4s	1.8s	3.2s
Noise	<=60dB			
Life Cycle	>= 5 million times			
Error Action	<=0.01%			
IP Grade	IP55			
Ambient Temperature	-40°C~+75°C			
Relative Humidity	50%~90%			
Atmospheric Pressure	86Kpa~106 Kpa			
Weight	75 kgs			
Size	350*350*1010mm			
Loop Detector	Optional			
IR Sensor	Optional			
Remote control	Optional			

### Installation of housing



## Installation of barrier arm



- 1 Housing    2 Bracket    3 Flange-shaft    4 Tapping Pin    5 Bushing    6 Bolts

## Wiring Diagram

