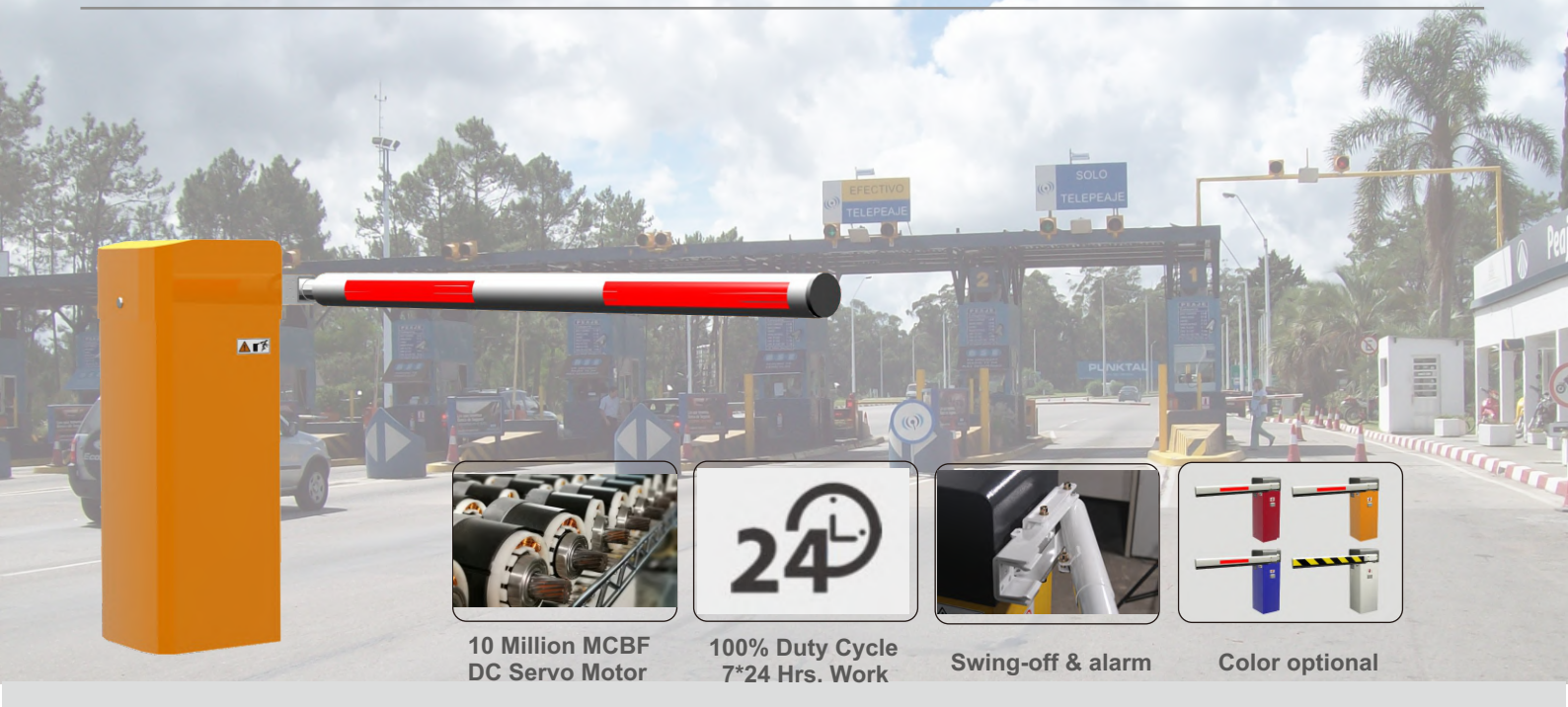


# PAB-BD-SHSN-03

## 0.3s High Speed Toll Barrier

**Dashou®**  
Parking System Expert



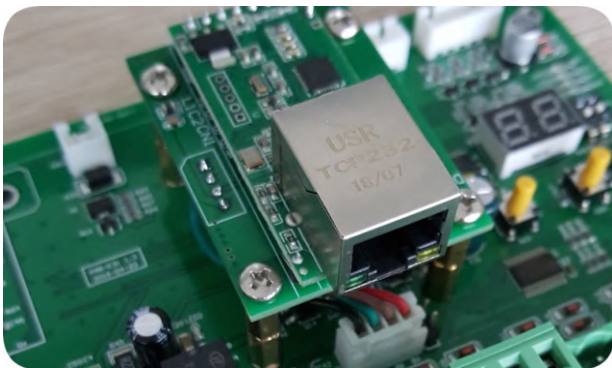
10 Million MCBF  
DC Servo Motor

100% Duty Cycle  
7\*24 Hrs. Work

Swing-off & alarm

Color optional

0.3s high speed toll barrier **PAB-BD-SHSN-03** adopts free-maintenance DC brushless torque motor and PWM variable frequency servo controller, fast but smooth moving. Incredible 10 million MCBF and 100% duty cycle makes it continuously work at 7\*24 hrs with long life span. Opening/closing time 0.3s for Max. 2.6m carbon fiber arm, arm direction is exchangeable without changing any parts, Boom will automatically swing off in case of any hit by vehicle. It can be integrated with the third party system via TCP/IP. It is the right choice for highway toll gate ETC cashless lane. See video at [https://youtu.be/ufn\\_m6XWyLo](https://youtu.be/ufn_m6XWyLo)



### TCP/IP Interface for Easy Integration (Optional)

The barrier provides optional TCP/IP RJ45 port, which can integrate the barrier with your own system conveniently, so you can control and monitor the barrier by your own system.

\*Dashou Ethernet module should be installed in barrier controller, and communication protocol will be provided by Dashou

### Free-maintenance DC Brushless Servo Motor 10 million cycles MCBF & 100% duty cycle

Free-maintenance DC24V brushless servo torque motor ensures 10 million cycles MCBF long life span; 100% duty cycle makes barrier continuously work at 24\*7 hours; Max. 240W low consumption makes barrier environment friendly but outputs super strong torque

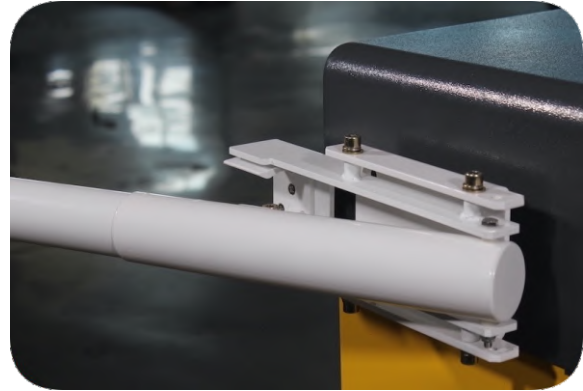


# PAB-BD SHSN-03

## 0.3s High Speed Toll Barrier

### Boom Swing-off Protects Boom and Vehicle

Boom will swing off 90 degree if it was hit by a vehicle, this is to protect both vehicle and boom. It is optional. You can easily add swing-off module to a barrier which is without swing-off.



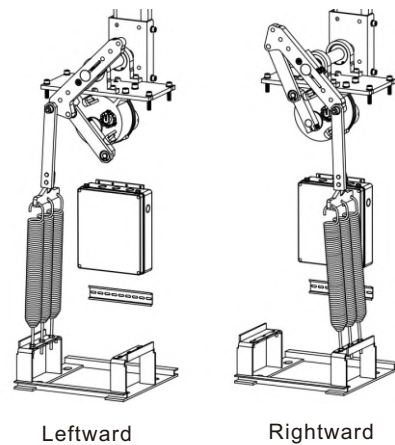
### Boom Auto-Reverse On Obstacle

While moving down, boom will automatically reverse immediately once it is obstructed by vehicle or pedestrian, which protects the vehicle or person. The sensitivity is adjustable.



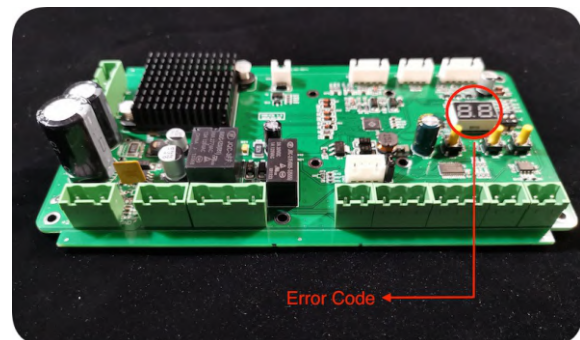
### Boom Direction Is Exchangeable Without Replacing Any Parts

In the past you have to keep stock for barriers with different boom direction as different sites may require different boom direction. But now boom arm direction can be exchanged easily at site without replacing any parts



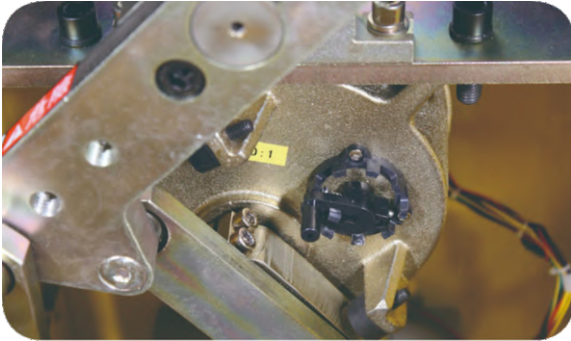
### Automatically Check Status and Report Error

Barrier system will automatically check its operation status and show errors code on its LED tube if an error occurred. This helps you quickly find out problem and find solution.



# PAB-BD SHSN-03

## 0.3s High Speed Toll Barrier



### Manually Control In Case of Power Failure

If power supply is off, you can manually open/close the barrier gate by the black lever. Also boom can be manually locked in any position between horizontal and vertical by this level.

Warning: Not allowed to use the function when power on, may hurt your hand and damage the motor.



### Backup Solar Panel or Lead-acid Cell

DC motor barrier can be powered by solar panel or lead-acid cell for back up power supply. Especially solar power is environment friendly which is good for earth.

### More Features

1. 0.3 sec. high speed
2. Quite smooth moving with Max. 2.6m round carbon fiber boom
3. Variable frequency controller automatically detects and optimizes boom moving, ensures smooth moving without shake
4. Barrier decelerates in the end of opening and closing to avoid shaking
5. Simplified design, easy installation and maintenance reduces your labor cost
6. Boom automatically open up fully in case of power failure (Optional)
7. Mechanical self-locking the boom, can not lift up the boom by hand
8. Alarm when boom swing-off (Optional)
9. Safety for vehicle--- Anti-hit by Loop Detector (Optional)
10. Safety for vehicle & pedestrian— Anti-hit by IR photocell (Optional)
11. Safety for vehicle & pedestrian— Anti-hit by "Opening Priority"
12. Automatically close in given time (Programmable)
13. Automatically close or open by loop detector (Optional)
14. Enable or disable "Always-open mode" on remote (Optional)
15. Count opening & closing times totally, or count opening or closing times only
16. Anti-condensation in cold climate
17. Transparent plastic covers on control board to protect the board.

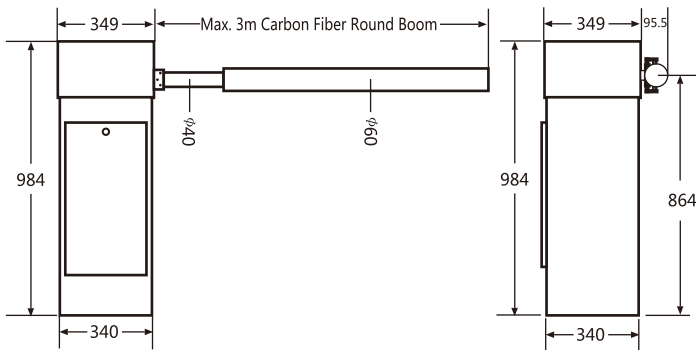


# PAB-BD SHSN-03

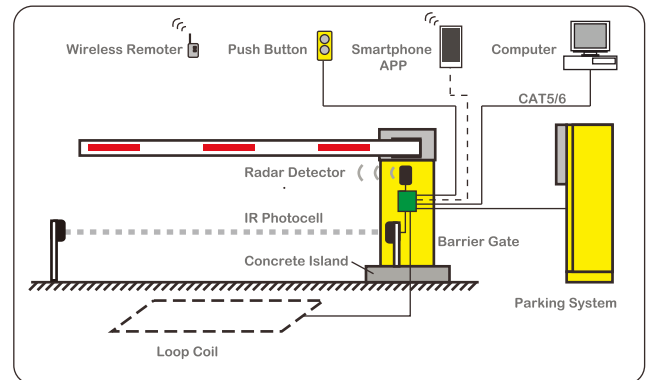
## 0.3s High Speed Toll Barrier

**Dashou**<sup>®</sup>  
Parking System Expert

### Dimension (mm)



### Application

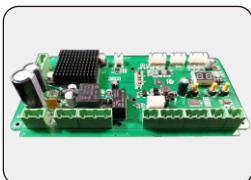


### Technical Parameter

|                      |                                                |
|----------------------|------------------------------------------------|
| Opening/closing time | 0.3 sec.                                       |
| Boom                 | Max. 2.6mtr. carbon fiber round boom           |
| Boom                 | Round arm diameter: 40mm, Foam diameter: 60mm  |
| Boom Direction       | Leftward / rightward exchangeable              |
| Power Supply         | AC100~240V, 50/60Hz, 480W                      |
| Motor                | 240W DC24V brushless servo torque motor        |
| Duty Cycle           | 100% duty cycle                                |
| MCBF                 | 10 Million Cycles (Mean Cycles Before Failure) |
| Max. frequency       | 20,000 operation cycles per day                |
| Controller           | PWM variable frequency servo controller board  |

|                         |                              |
|-------------------------|------------------------------|
| Communication Interface | RS-485 or TCP/IP RJ45        |
| Wireless Remote         | Two Remoters, distance>20m   |
| Housing Material        | 2mm cold-roller sheet        |
| Housing Painting        | Powder coating last 10 years |
| Protection Rating       | IP 54                        |
| G.W / N.W               | 52/50KG                      |
| Package Dimension       | 1190×470×420mm               |
| Dimension               | 984×349×340mm (H*W*D)        |
| Operating Temperature   | -30°C~55°C                   |
| Operating Humidity      | 10% ~ 95%                    |

### Accessories



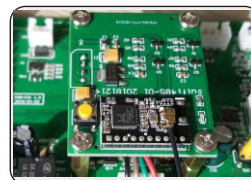
PWM variable frequency  
servo controller board



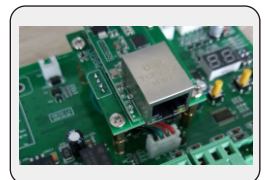
Remoter: transmitter,  
distance>20m



175W DC24V Brushless  
Servo Torque Motor



WIFI Module  
Smartphone control barrier



Ethernet Module  
Make your system  
control our barrier



Swing-off and alarm



Ground Induction



Loop Detector



Photocell



Carbon fiber round boom

CE ISO9001:2015 ISO14001:2015 ISO45001:2018

Xiamen Dashou Technology Ltd.

info@dashou-china.com  
Tel: +86 592 5558660  
Add.: The 2nd Floor, No. 882 2nd Tonglong Rd., Torch High-Tech Zone Industrial Park, Xiamen China

www.dashou-china.com  
Fax: +86 592 5511002