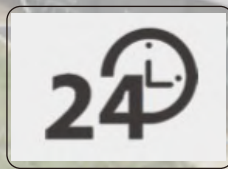


# PAB-BDS Springless Parking Barrier Gate

**Dashou®**  
Parking System Expert



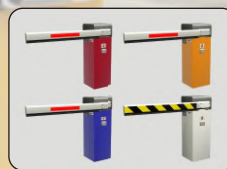
**10 Million MCBF  
DC Servo Motor**



**100% Duty Cycle  
7\*24 Hrs. Work**



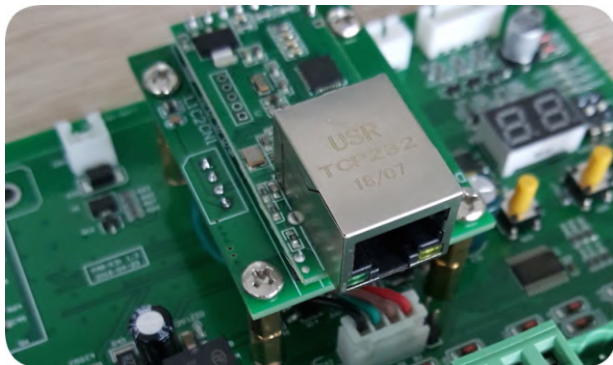
**Swing-off & alarm**



**Color optional**



PAB-BDS Springless parking barrier gate is a product of the post-industrial era. Based on heavy-load, long-life gear technology and high-efficiency, high-density rare earth motor technology, it eliminates springs and avoids the complex configuration and maintenance costs of spring-loaded barriers, and retains all the beneficial functions of barrier gates to date. The 300W DC servo motor has fast speed, large torque, small current. Incredible 10 million MCBF and 100% duty cycle makes it continuously work at 7\*24 hrs with long life span. Its boom direction is exchangeable in 30 seconds, boom type can be changed at site without replacing any parts. Opening/closing time is self-adaptive from 1.5~6s according to pole type and length. It can be controlled and monitored by any third party system via TCP/IP.



## **TCP/IP Interface for Easy Integration**

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

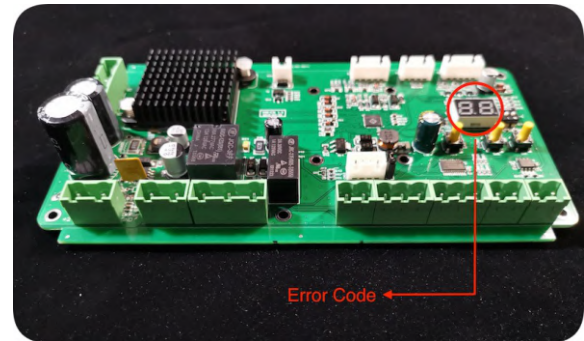


## **Free-maintenance DC Servo Motor & precision ground helical gears 10 million cycles MCBF & 100% duty cycle**

Free-maintenance DC servo motor & 20CrMnTi precision ground helical gears, ensures 10 million cycles MCBF long life span, high transmission efficiency and high torque bearing capacity etc.; 100% duty cycle makes barrier continuously work at 24\*7 hours; Max. 300W super power makes the barrier outputs super strong torque with high stability.

## 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. 100,000-line encoder signal transmission feedback control, high-speed computing speed of milliseconds for easy control



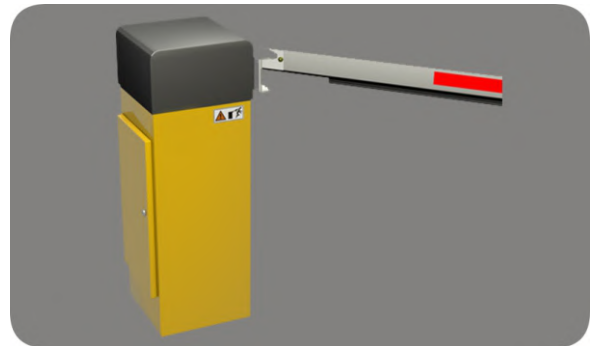
## Boom Auto-Reverse On Obstacle

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.



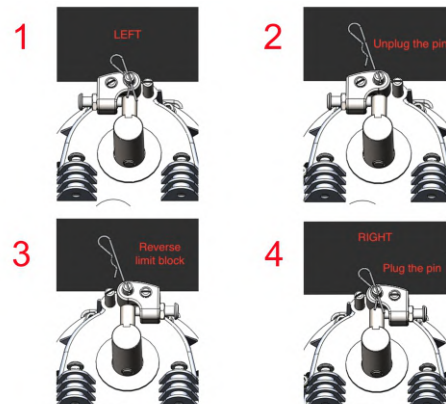
## Boom Swing-off Protects Boom and Vehicle

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 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 and without any tool **in 30 seconds**.





## 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.



## LED Illumination Makes Boom Visible In The Night

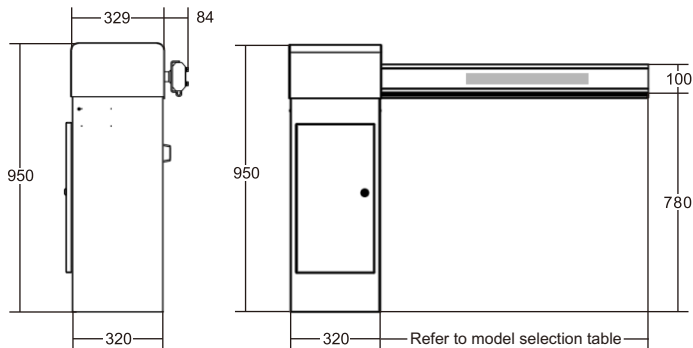
LED Illumination bar can be installed onto boom to make boom visible in the night, so that drivers can view barrier and boom clearly, this improve safety of both barrier and vehicle. Also LED decorates barrier gate.

## More Features

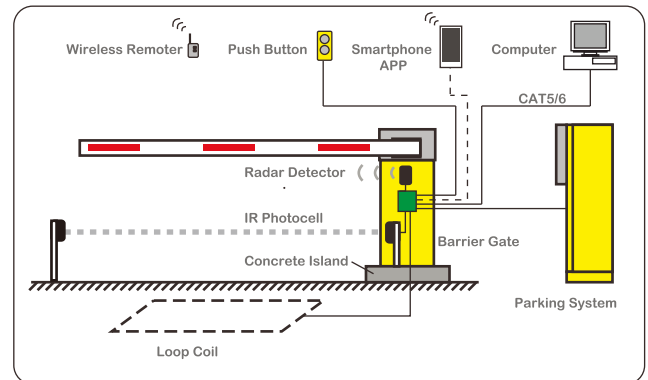
1. Boom automatically open up fully in case of power failure
2. Suitable for various pole types: straight pole within 6 meters, folding arm pole within 5 meters, two-rail fence pole within 5 meters. Different types of pole can be changed without replacing any parts
3. The speed of the raising and lowering is 1.5~6 seconds adjustable, which is self-adaptive according to the pole type and length: the lighter the pole, the faster it is. For example: the adaptive speed of a straight pole within 4 meters is 1.5 seconds, and the adaptive speed of a 5 meter fence pole is 6 seconds. If the adaptive effect is not ideal, it can be set manually.
4. Variable frequency controller automatically detects and optimizes boom moving, ensures smooth moving without shake
5. Barrier decelerates in the end of opening and closing to avoid shaking
6. Simplified design, easy installation and maintenance reduces your labor cost
7. Manually control in case of power failure
8. When there is no power, the motor brake device will lock itself to prevent the arm from falling down and hitting the car due to gravity.
9. Mechanical self-locking the boom, can not lift up the boom by hand
10. Alarm when boom swing-off (Optional)
11. Safety for vehicle--- Anti-hit by Loop Detector (Optional)
12. Safety for vehicle & pedestrian— Anti-hit by IR photocell (Optional)
13. Safety for vehicle & pedestrian— Anti-hit by "Opening Priority"
14. Automatically close in given time (Programmable)
15. Automatically close or open by loop detector (Optional)
16. Enable or disable "Always-open mode" on remote (Optional)
17. Count opening & closing times totally, or count opening or closing times only
18. Fire linkage signal input function
19. Loop detector normally open and normally closed function



## Dimension (mm)



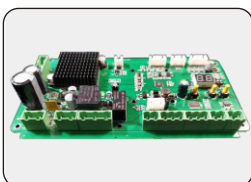
## Application



## Technical Parameter

<b>Opening/closing time</b>	1.5~6 sec. adjustable	<b>Communication Interface</b>	RS-485 or TCP/IP RJ45
<b>Boom</b>	4~6mtr. Aluminum alloy octagonal boom	<b>Wireless Remote</b>	Two Remoters, distance>20m
<b>Boom Direction</b>	Leftward / rightward exchangeable	<b>Housing Material</b>	2mm cold-roller sheet
<b>Power Supply</b>	AC100~240V, 50/60Hz, Max.0.5A	<b>Housing Painting</b>	Powder coating last 10 years
<b>Motor</b>	300W DC servo motor	<b>Protection Rating</b>	IP 54
<b>Duty Cycle</b>	100% duty cycle	<b>G.W / N.W</b>	50/48KG
<b>MCBF</b>	10 Million Cycles (Mean Cycles Before Failure)	<b>Package Dimension</b>	1100×480×430mm
<b>Max. frequency</b>	15,000 operation cycles per day	<b>Dimension</b>	950×320×329mm (H*W*D)
<b>Controller</b>	40MHz 80C51 Core Frequency Conversion Servo Controller	<b>Operating Temperature</b>	-40°C~70°C
		<b>Operating Humidity</b>	10% ~ 95%

## Accessories



PWM variable frequency servo controller board



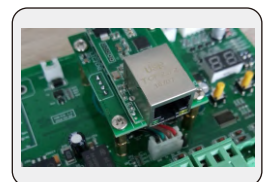
Remoter: transmitter, distance>20m



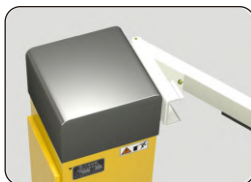
300W DC Servo Motor Alloy steel helical gear



Auto-open Module in case of power failure



Ethernet Module  
Make your system control our barrier



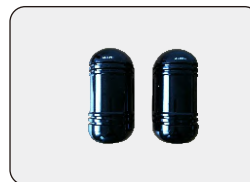
Swing-off and alarm



Ground Induction



Loop Detector



Photocell



Aluminum round arm  
Aluminum octagonal arm