

# ProBG3000 Series

High Performance Barrier Gate  
with High-Speed



## **High Reliability, Long Product Lifetime, High Speed and Steady, Maintenance-free, High Safety**

The ProBG3000 series is a high performance and high speed barrier gate. It adopts high performance servo Motor, simple and reliable transmission structure, high temperature resistant control panel, human-friendly interactive appearance design and anti-collision protection's boom connector design.



# Key Features

- Human-friendly interactive appearance design. The chassis is standard for LED indicator light, and the boom is optional for LED light strip.
- The Mean Cycles Between Failures (MCBF) is up to 5 million times, and the product's lifespan is more than 10 times longer than the traditional barrier gate.
- The opening/closing speed of boom is fast (upto 0.9s). You can adjust the speed from 0.9s-8s by the vehicle flow and required boom length.
- It can operate normally at temperature as low as  $-45^{\circ}\text{C}$  and as high as  $75^{\circ}\text{C}$ .
- High reliability. Wear-resistant, and there is no mechanical impact and shock absorption during the movement.
- Automatically detects Power-off and lifts the Boom. The gate arm can also be pushed up manually by hand.
- High safety; when a vehicle hits the boom, it swings out to avoid further damage. It has impact-resistance rubber strip.
- The boom direction can be quickly interchanged according to different direction on site.
- Supports fleet mode and boom lifting time record function; the gate can be closed after the barrier sensor has detected specified number of vehicles passed.
- Supports boom angle adjustment function.
- Supports global standard voltage of 100-240V AC and 24VDC low voltage power supply.
- Supports delay automatic close function.
- Low power consumption and energy saving design. The barrier gate can save upto 500kWh of electricity a year.



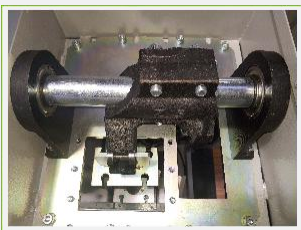


# Functions



## DC 24V Servo Motor

- With planetary gear reducer and PID closed loop control
- No noise
- No oil leakage
- Maintenance-free, mechanical life is very long
- High transmission efficiency, control precision
- Low motor heating, and no trigger heating protection under the continuous working conditions



## Transmission Structure

- Efficient and concise mechanical transmission structure, and failure rate is very low
- Keyless design that avoids abrasion troubles between keyway and key
- The spindle base adopts ductile iron technology so more durable



## Control Panel

- Using digital chip technology
- Extreme working temperature is up to 125°C
- Failure Detection; fault warning function when devices on control panel encounter failure.



## Balancing Spring

- High durable
- With user-friendly structural design, it's easy and convenient to adjust the spring tension



## Boom Connector

- Anti-collision protection function
- When a vehicle hits the boom, the boom can fall off to avoid damaging the vehicle and the barrier gate



Optional LED strip with color switching feature according to the Barrier gate state.  
Reflective stickers

Anti-Smash rubber to protect Vehicle from damage

Built-in LED indicator; the color and state can switch according the barrier gate's state

# Specifications

Model	ProBG3000	ProBG3100	ProBG3200
Motor Type	Servo Motor		
Boom Type	Straight boom	90° Folding boom	Fence boom
Boom Length	Supports 3m/3.5m/6m (adjustable)	3m	Support 3m/4m
Ingress Protection Level	IP54		
Operating Temperature	-40°C to +75°C		
Power Supply	24V DC, 100 to 240V AC / battery backup		
Frequency	50 to 60HZ		
Power Consumption	100W		
Metal loop detector	Loop detector- 2 pcs. / included interference filter with adjustable sensitivity		
Relay Output	1 relay stop work / 1 relay safety work with metal detector		
Case Size	360*330*1000mm		
Net Weight	43kg		

Model	Boom Length	Operating Speed	Boom with LED (options)	L / R
ProBG3000L	3m/3.5m/6m	0.9s/1.3s/4.5s	Y/ N	L
ProBG3000R	3m/3.5m/6m	0.9s/1.3s/4.5s	Y/ N	R
ProBG3100L	3m	1s	Y/ N	L
ProBG3100R	3m	1s	Y/ N	R
ProBG3200L	3m / 4m	2s / 3s	N	L
ProBG3200R	3m / 4m	2s / 3s	N	R

## Boom Direction Interchangeable



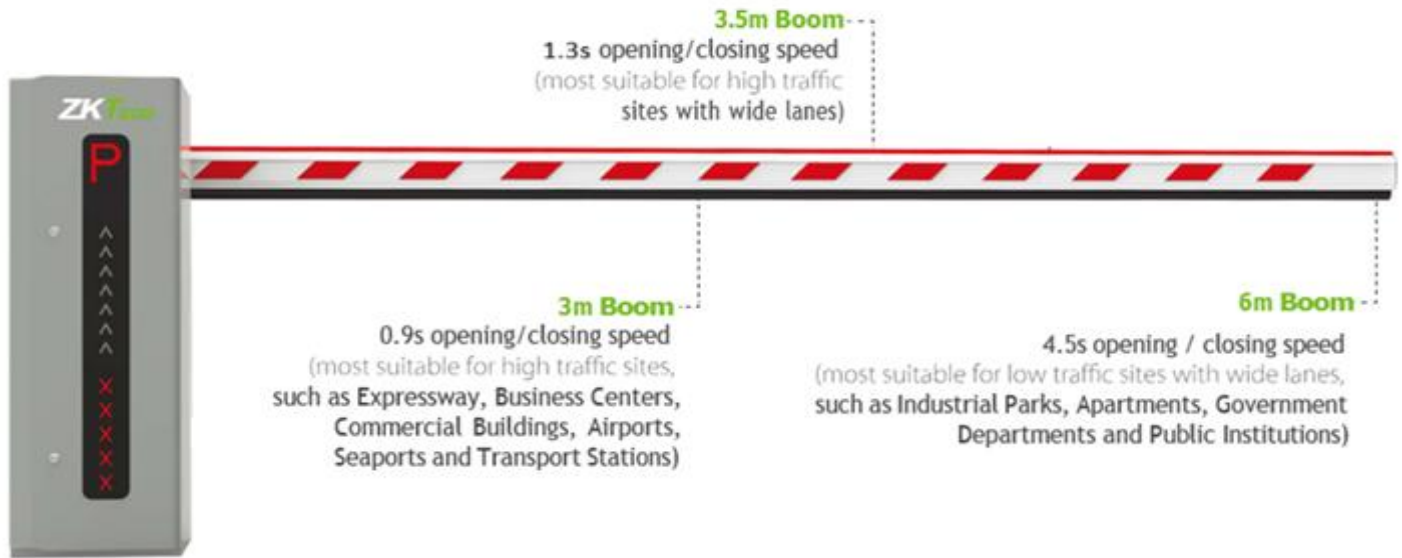
L: Case on the left side, and boom on the right side



R: Case on the right side, and boom on the left side

# Application

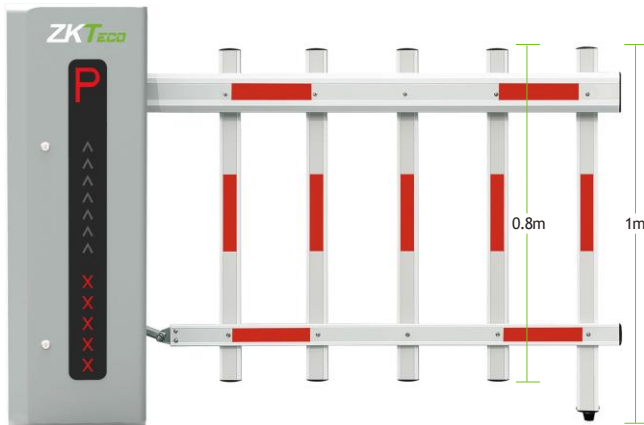
## ProBG3000 Series



## ProBG3100 Series



## ProBG3200 Series



2s/ 3s opening and closing speed,  
supports 3m and 4m boom length.

## Dimensions (mm)

