

# 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°C and as high as 75°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.

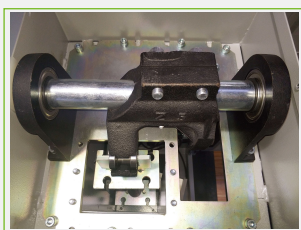


# Functions



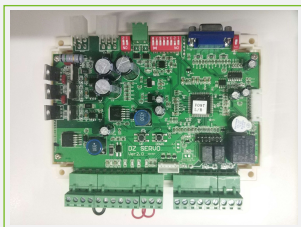
## DC 24V Servo Motor

- 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



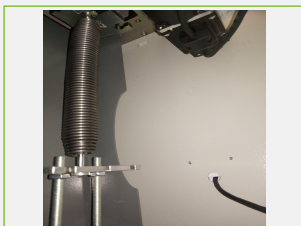
## Transmission Structure

- 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



Anti-Smash rubber to protect Vehicle from damage

Optional LED strip (Replace original rubber)

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/4.5m/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		
Frequency	50 to 60HZ		
Power Consumption	100W		
Case Material	Powder coated steel		
Case Size	360*330*1000mm		
Net Weight	43kg		
MCBF	5 Million		

Model	Boom Length	Operating Speed	Boom with LED (options)	L / R
ProBG3000L	3m/4.5m/6m	0.9s/2.5s/4.5s	Y/ N	L
ProBG3000R	3m/4.5m/6m	0.9s/2.5s/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



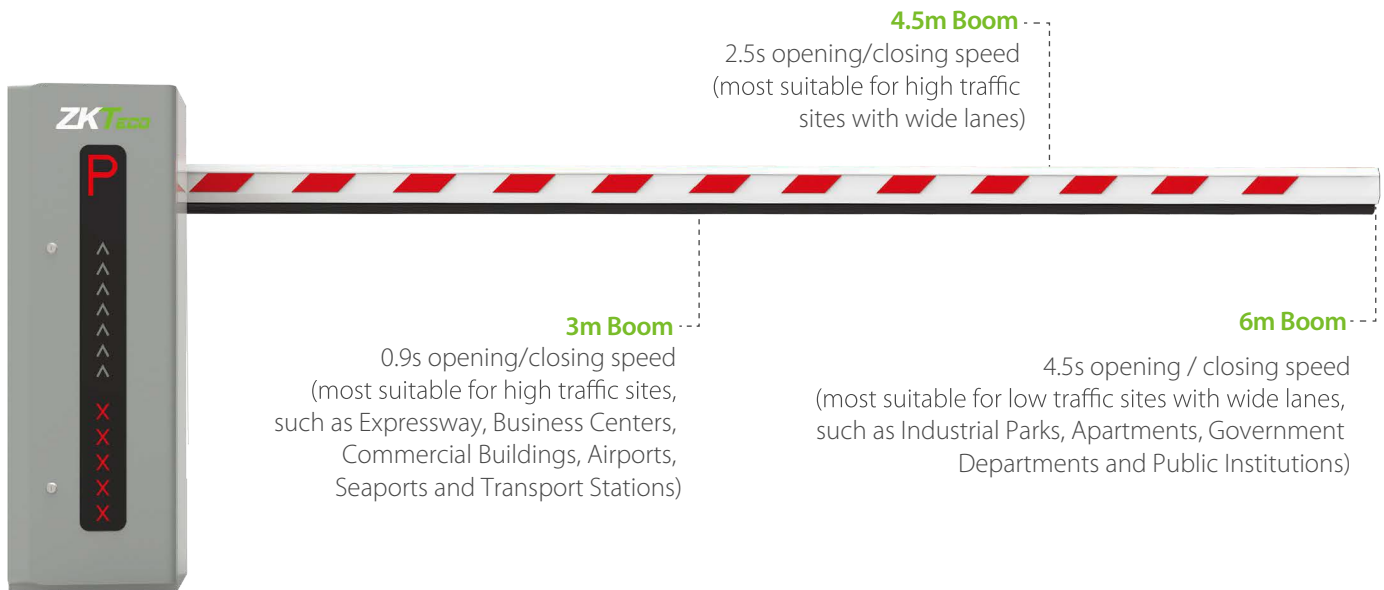
L: Case on the left side,  
and boom on the right side



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

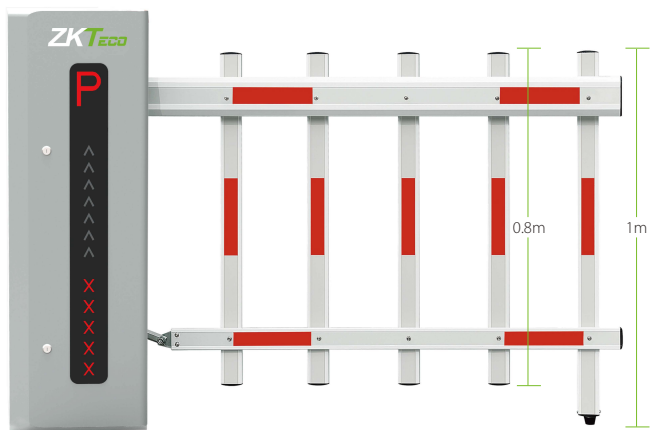
# Application

## ProBG3000 Series



## ProBG3100 Series





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

## System Products



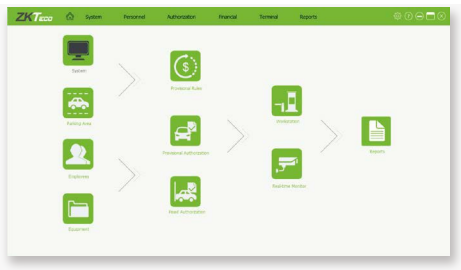
UHF Products



Bluetooth Products



LPR Products



ZKParking & ZKBioSecurity

## Dimensions (mm)

