

# PAB-B Series



## Intelligent Barrier



Fence arm



Crank arm



Anti-collision arm



Color optional

ISO9001:2000

### Features

New digital barrier PAB-40B standard is the first choice for parking management system. It is more durable, accurate, flexible and safer. It can assemble with Aluminum Alloy octagonal boom with the maximum length of 6m, with the opening / closing time from 1-4 sec.

#### Anti-collision protects boom arm (optional)

Anti-collision protects the boom arm not to be damaged once boom Arm was collided by a vehicle.

#### Self-adjust operation smoothness of boom arm

Self-adjusting the operation smoothness of the boom arm, and Saving optimal point, it optimizes the working status of the motor and Mechanical structure so that their lifetime will be prolonged.

#### Heavy-duty and simple-design cabinet

The cabinet adopts 2mm precise machining cold-rolled plate and static electricity sprayed anti-UV surface which is non-scale and unfading, conformed to the IP54 dustproof and waterproof. Simple design also decorates your premises.

#### Sine lever drive mechanism ensures smooth landing of boom without shaking

The patented precise casting sine lever drive mechanism enables the boom arm moves from slow to fast when it starts, and fast to slow when it stops. This will effectively reduce the shaking of the boom arm and allay the burden of the electrical motor, so that the lifetime of the motor and mechanical components will be greatly prolonged.

#### Maintenance-free 70W torque motor 100% duty cycle

The 70W integrated decelerating torque motor is environmentally friendly, energy-saving, and maintenance-free. No current shock and overheating while working, it protects the controller and prolong its lifetime. Also it is 100% duty cycle.

#### Anti-hit ---Prior to opening

If a vehicle is coming while boom arm moving down, the boom arm will immediately go back to vertical position once loop detector is triggered by the vehicle or manual commands is given by guard, which protect the vehicle not to be hit by boom arm.

#### Anti-hit---Rebound in case of pressure resistance

While moving down, boom arm will immediately go back to vertical position once it is obstructed by an imposed force, which protects the vehicle or person not to be hit by boom arm. The sensitivity is adjustable.

#### Anti-hit----Infra Red (optional)

While moving down after vehicle passed, boom arm will immediately go back to vertical position once the IR transmission between the receiver and transmitter was blocked by a vehicle or person, which protects the vehicle or person not to be hit by boom arm.

#### Optional controlling way

There are three ways to control the barrier's movement, namely, external button, remote-control and RS485 serial command.

#### Always-open mode

If 'open' command keep working (by continuously pressing "open" button) or RS485 command was set at always-open mode, the barrier will ignore all 'close' command and stay at the vertical position, unless the status changed.

#### Automatically check

Automatically check the operation status and report errors according to different level

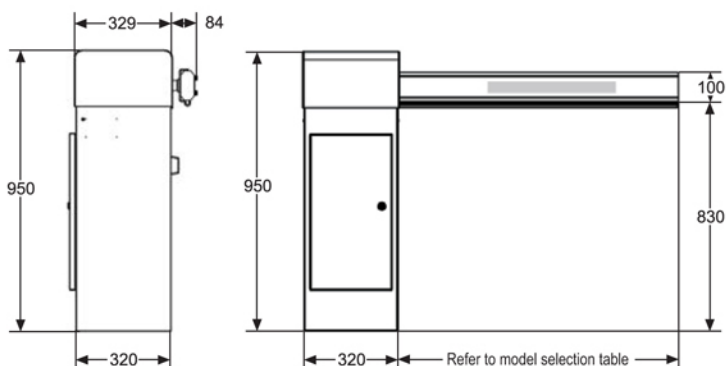
#### Manual control in case of no power

Once power is off, just open the cabinet and manually control the Barrier by a gear mechanism.

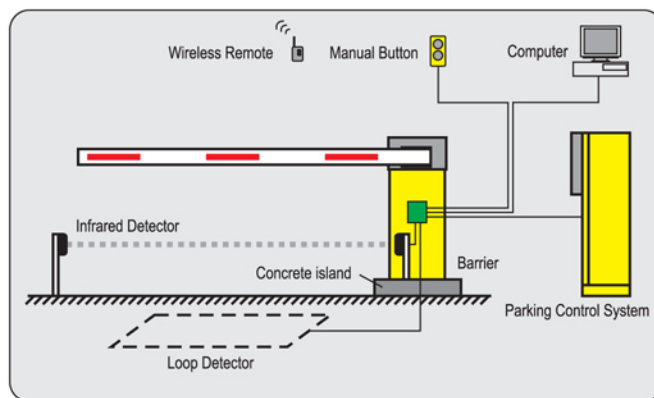
#### Anti-condensation in cold climate

The barrier remains low power consumption even without closing and opening input, which will keep the motor in normal temperature. The lubricant will not be frozen so that the barrier will keep working in frozen Environment.

## Dimension (mm)



## Application



## Technical Parameter

Standard	GA/T761-2008 Technical Specification of Parking Lots Security Management System
Power	AC220V+, 10% 50-60Hz Max 0.5A
Operating Temperature	-25°C~55°C
Operating Humidity	10%~95%
Housing	2mm cold-roller sheet, IP54 Level
Boom	45mm×100mm Aluminum alloy octagonal arm, maximum 6m
Speed	1s, 1.5s, 2s, 3s, 4s optional
Motor	70W Concrete decelerating torque motor
Boom side	Barrier arm can be either assembled on left or right side
Spring	Multi-spring balance

Controller	Intel 80C51 MCU, 40MHz, Controlled silicon motor control
Loop detector Input	Pulse width > 100ms
Infrared detector Input	Pulse width > 100ms
Up&Down Input	Pulse width > 100ms
Traffic Light Output	Relay Output, Current maximum 1A
Loop Detector Svn. Output	Relay NO Output, AC220V/0.5A, DC12V/1A
DC12V Aux. Power Output	DC12V, Maximum 300mA
Wireless Remote(Optional)	Two Button Remote Transmitter, distance>20m
RS485 Interface	9600bps, ASCII decimal encoded
Dimension	330mm 345mm 950mm, Weight about 60kg

## Accessories



Control board: Intel 80C51 MCU, Controlled silicon Motor control. Parameter



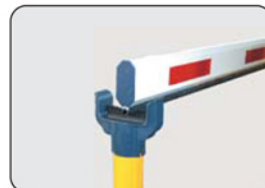
Remoter: two button transmitter, inner antenna, distance>20m



Motor: 70W Concrete decelerating torque motor, no current shock and overheating



Capacitor: 4.7uF



Boom arm bracket



Normal arm: 45 100mm Aluminum Alloy octagonal



Anti-crush arm: 45 100mm Aluminum Alloy octagonal arm with rubber



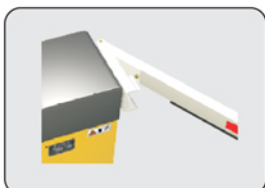
Arm LED light bar: Dual color LED bar, DC12V power in, power



Crank arm



Fence arm



Anti-collision









Pulse angle sensor

# PAB-B Series



## Model Selection

Photo	Item	Description	Remarks
	PAB-B-HSL	1) High-speed: 1 / 1.5 sec. optional 2) Straight arm with rubber bar, Max. length following: 2.5m for 1 sec. 3m for 1.5 sec. 3) With LED light bar 4) Housing color: yellow[default] / orange / white / red / blue optional 5) Arm direction: leftward / rightward optional 6) W/o anti-collision, w/o remoter, w/o arm bracket, need to buy these additionally	HSL H: High speed S: Straight arm L: With LED bar
	PAB-B-HSN	1) High-speed: 1 / 1.5 sec. optional 2) Straight arm with rubber bar, Max. length following: 3m for 1 sec. 3.5m for 1.5 sec. 3) W/o LED light bar 4) Housing color: yellow[default] / orange / white / red / blue optional 5) Arm direction: leftward / rightward optional 6) W/o anti-collision, w/o remoter, w/o arm bracket, need to buy these additionally	HSN H: High speed S: Straight arm N: W/o LED bar
	PAB-B-NSL	1) Normal-speed: 2 / 3 / 4 sec. optional 2) Straight arm with rubber bar, Max. Length following: 3m for 2 sec. 4m for 3 sec. 4m for 4 sec. & with anti-collision 5m for 4 sec. & w/o anti-collision 3) With LED light bar 4) Housing color: yellow[default] / orange / white / red / blue optional 5) Arm direction: leftward / rightward optional 6) W/o anti-collision, w/o remoter, w/o arm bracket, need to buy these additionally	NSL N: Normal speed S: Straight arm L: With LED bar
	PAB-B-NSN	1) Normal-speed: 2 / 3 / 4 sec. optional 2) Straight arm with rubber bar, Max. length following: 4m for 2 sec. 4m for 3 sec. & with anti-collision 5m for 3 sec. & w/o anti-collision 4m for 4 sec. & with anti-collision 6m for 4 sec. & w/o anti-collision 3) W/o LED light bar 4) Housing color: yellow[default] / orange / white / red / blue optional 5) Arm direction: leftward / rightward optional 6) W/o anti-collision, w/o remoter, w/o arm bracket, need to buy these additionally	NSN N: Normal speed S: Straight arm N: W/o LED bar
	PAB-B-NCN	1) Normal-speed: 2 / 3 / 4 sec. optional 2) Crank arm with rubber bar, Max. length following: 3m for 2 sec. 4m for 3 sec. 4.5m for 4 sec. 3) W/o LED light bar 4) Housing color: yellow[default] / orange / white / red / blue optional 5) Arm direction: leftward / rightward optional 6) W/o remoter, w/o arm bracket, need to buy these additionally	NCN N: Normal speed C: Crank arm N: W/o LED bar
	PAB-B-NFN	1) Normal-speed: 4 sec. only 2) Fence arm, Max. length 4m 3) W/o LED light bar 4) Housing color: yellow[default] / orange / white / red / blue optional 5) Arm direction: leftward / rightward optional 6) W/o remoter, w/o arm bracket, need to buy these additionally	NFN N: Normal speed F: Fence arm N: W/o LED bar