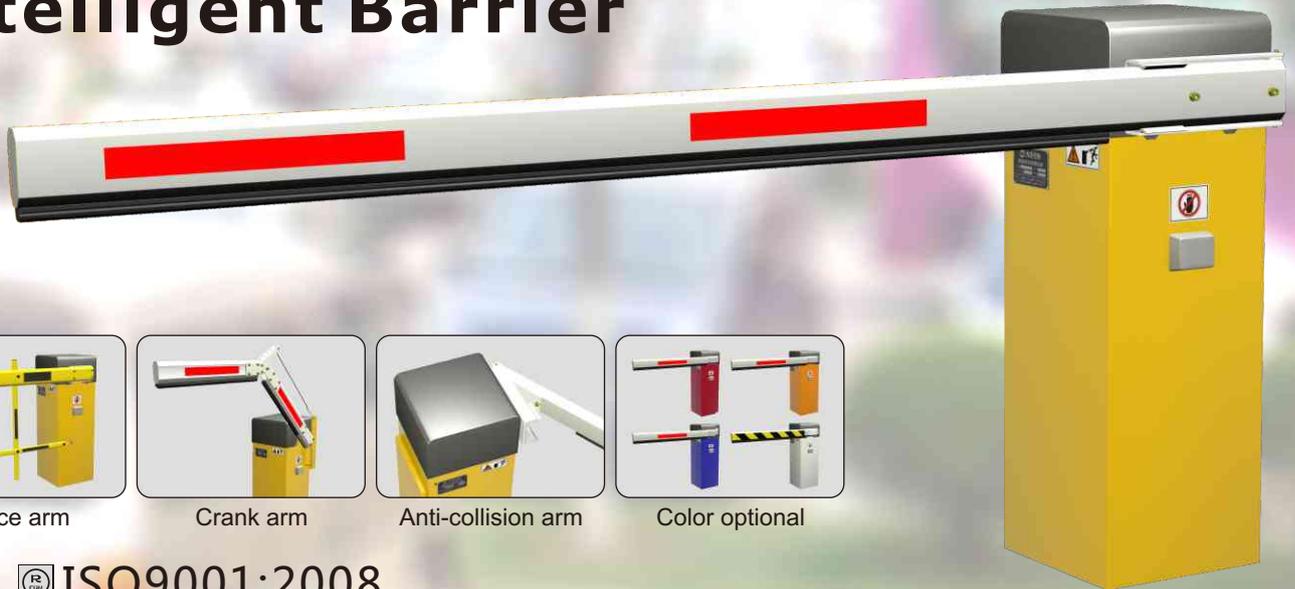


## Intelligent Barrier



Fence arm



Crank arm



Anti-collision arm



Color optional

CE ISO9001:2008

### Features

New digital barrier PAB-B series (BEYOND) is the first choice for your parking, no matter parking lots or high way toll gate. It is more Durable, accurate, flexible and safer. It can assemble with Aluminum Alloy octagonal boom with the maximum length of 6m, with the open / close time from 0.8s to 4s.

- **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.

- **Automatic error self-check & report**

The barrier itself automatically checks the operation status, and reports errors by showing different error code on LED tube

- **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.

- **Boom open up fully or close down in case of power failure**

If power is suddenly off while boom closing, boom will automatically close down fully if the angle between boom and vertical plane beyond 45 degree. If power failure occurs during boom opening, boom will automatically continue to open up fully if the angle between boom and level surface beyond 45 degrees.

- **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.

- **Automatically close after given time**

The barrier will automatically closes after given time (1-99 seconds adjustable) if there is no vehicle passed after barrier open. No loop detector and induction coil required

- **Anti-collision mechanism protects arm (optional)**

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

## Features

- **Safety---Anti-hit by pressure resistance bounce**

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.

Note: This function does not work when the angle is <9 both in vertical and horizontal position.

- **Safety— Anti-hit by Loop Detector (Optional)**

While barrier boom moving down, If a coming vehicle was detected to be existing on the ground induction coil, the barrier boom will go back to vertical position immediately until loop input was dismissed and then the barrier boom will go down immediately.

Note: This function does not work when barrier boom horizontal angle is <9.

- **Anti-hit----Infra Red Photo Cell (optional)**

While barrier boom moving down, If infrared transportation between transmitter and receiver is blocked by human or vehicle, the barrier arm will go back to vertical position immediately. The arm will automatically close once the infrared transportation recovers.

Note: This function does not work when barrier boom horizontal angle is <9.

- **Double safety--- Anti-hit by Loop Detector & IR photocell (Optional)**

To double protect a vehicle by installing a loop detector and a IR photocell.

While barrier boom moving down, if the infrared transportation between transmitter and receiver was blocked by a coming vehicle, or the coming vehicle was detected to be existing on the ground induction coil, or both happened, the barrier arm will go back to vertical position immediately. The arm will automatically & immediately close once the infrared transportation recovers and at the same time the vehicle has already passed through the ground induction coil.

- **Safety— Anti-hit by “Opening Priority”**

If a vehicle is coming while boom arm moving down, the boom arm will immediately go back to vertical position once a manual open command is given by guard by the push button or remoter transmitter, which protect the vehicle not to be hit by boom arm.

- **Closing Priority**

While arm moving up, the boom arm will immediately go down once a manual close command is given by guard by the push button or remoter transmitter

- **Automatically Close by 1# loop detector (Optional)**

If 1# loop detector is installed, after vehicle passed the barrier will automatically close once the loop input was triggered

- **Automatically open by 2# loop detector (Optional)**

If 2# loop detector is installed, when arm is in horizontal position, the barrier arm will go up immediately once loop input was triggered

- **Always-open mode**

Keep continuously pressing “Stop” button of remote transmitter for 4 seconds, arm will go up to vertical position and stay there until again keep pressing “Close” button of remoter transmitter for 4 sec. to finish always-open mode.

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.

- **Manual control in case of no power**

Once power is off, just open the cabinet and manually control the barrier by a gear mechanism. Also barrier boom can be manually locked in any position between horizontal and vertical, the lock status will remain until unlock manually.

- **Anti-condensation in cold climate**

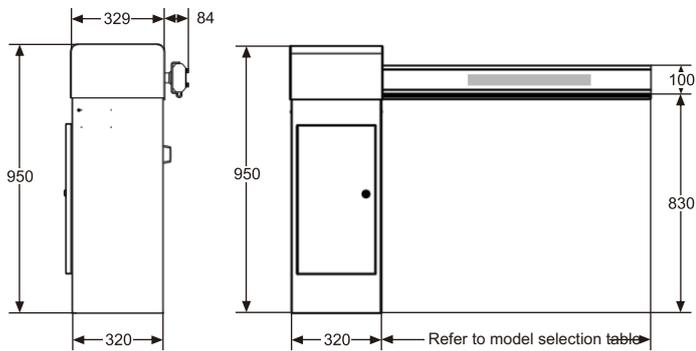
The barrier remains low power consumption even without closing and opening input, which will keep the motor in normal temperature. the lubricant will not be frozen so that the barrier will keep working in frozen environment.

- **Transparent plastic covers on Control Board**

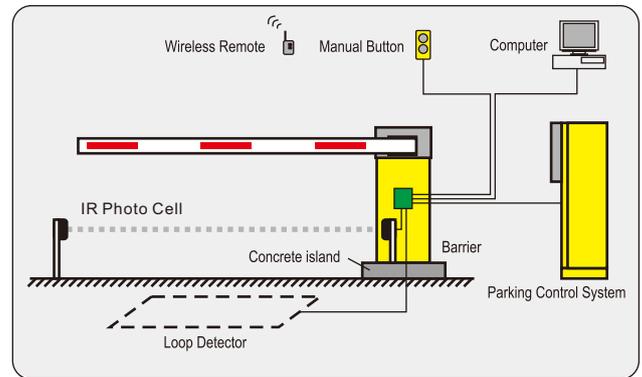
A transparent plastic covers on the Control Board to makes Control Board water proof and dust proof, also protects operator.

CE  ISO9001:2008

## Dimension (mm)



## Application



## Technical Parameter

Standard	GA/T761-2008 Technical Specification of Parking Security Management System	Controller	Intel 80C51 MCU, 40MHz, Controlled silicon motor control
Power	AC220V±10%, 50/60Hz, Max. 0.5A	Loop detector Input	Pulse width > 100ms
Operating Temperature	-25°C~55°C	Infrared detector Input	Pulse width > 100ms
Operating Humidity	10%~95%	Up&Down Input	Pulse width > 100ms
Housing	2mm cold-roller sheet, IP54 Level	Traffic Light Output	Relay Output, Current maximum 1A
Boom	45mm×100mm Aluminum alloy octagonal arm, maximum 6m	Loop Detector Syn. Output	Relay NO Output, AC220V/0.5A, DC12V/1A
Speed	0.8s,1.5s,2s,3s,4s optional	DC12V Aux. Power Output	DC12V, Maximum 300mA
Motor	70W Concreted decelerating torque motor	Wireless Remote(Optional)	Two Button Remote Transmitter, distance>20m
Boom side	Leftward or rightward	RS485 Interface	9600bps, ASCII decimal encoded
Spring	Multi-spring balance	Dimension	330mm×345mm×950mm,N.W about 50kg

## Accessories

Control board: Intel 80C51 MCU, Controlled silicon Motor control. Parameter	Remoter: two button transmitter, inner antenna, distance > 20m	Motor: 70W Concreted decelerating torque motor, no current shock	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 Mechanism	Pulse angle sensor			

CE ISO9001:2008

## Model Selection

Photo	Item	Description	Remarks
	PAB-B-HSL	The right barrier for high way toll gate (similar to MAGNETIC MIB-10) 1) High-speed of open / close: 0.8/1.5 sec. optional 2) Straight arm with rubber bar, Max. Length: 2.5m for 0.8 sec.; 3 m for 1.5 sec. 3) Inclusive of one arm with LED light bar, one push button which opens/closes barrier 4) Exclusive of remoter, boom bracket, anti-collision: need to buy extraly 5) Housing color optional: yellow(default)/orange/white/red/blue 6) Arm direction optional: leftward/rightward	HSL H: High speed S: Straight arm L: With LED bar
	PAB-B-HSN	The right barrier for high way toll gate (similar to MAGNETIC MIB-10) High-speed of open / close: 0.8/1.5 sec. optional 2) Straight arm with rubber bar, Max. Length: 3m for 0.8 sec. ; 3.5 m for 1.5 sec. 3) Inclusive of arm×1 and push button×1 which opens/closes barrier 4) Exclusive of LED light bar, remoter, boom bracket, anti-collision: need to buy extraly 5) Housing color optional: yellow(default) / orange / white / red / blue 6) Arm direction optional: leftward / rightward	HSN H: High speed S: Straight arm N: W/o LED bar
	PAB-B-NSL	The right barrier for parking lots 1) Normal-speed of open / close: 2/3/4 sec. optional 2) Straight boom arm with rubber bar, Max. Length following: . 5m for 4 sec. (w/o anti-collision) . 4m for 4 sec. (wtih anti-collision) . 4m for 3 sec. . 3m for 2 sec. 3) Inclusive of arm ×1 with LED light bar, push button ×1 which opens/closes barrier 4) Exclusive of remoter, boom bracket, anti-collision: need to buy extraly 5) Housing color optional: yellow(default) / orange / white / red / blue 6) Arm direction optional: leftward / rightward	NSL N: Normal speed S: Straight arm L: With LED bar
	PAB-B-NSN	The right barrier for parking lots 1) Normal-speed of open / close: 2/3/4 sec. optional 2) Straight arm with rubber bar, Max. length following: . 6m for 4 sec. (w/o anti-collision) . 4m for 4 sec. (with anti-collision) . 5m for 3 sec. (W/o anti-collision) . 4m for 3 sec. (with anti-collision) . 4m for 2 sec. 3) Inclusive of arm ×1 and push button ×1 which opens/closes barrier 4) Exclusive of LED light bar, remoter, boom bracket, anti-collision: need to buy extraly 5) Housing color optional: yellow(default) / orange / white / red / blue 6) Arm direction optional: leftward / rightward	NSN N: Normal speed S: Straight arm N: W/o LED bar
	PAB-B-NCN	The right barrier for parking lots (underground) 1) Normal-speed of open / close: 2/3/4 sec. optional 2) Crank arm with rubber bar, Max. Length: 4.5m for 4 sec., 4m for 3 sec, 3m for 2 sec. 3) Inclusive of arm ×1 and push button ×1 which opens/closes barrier 4) Exclusive of remoter, boom bracket: need to buy extraly 5) Can't be equipped with LED light bar and anti-collision mechanism 6) Housing color optional: yellow(default) / orange / white / red / blue 7) Arm direction optional: leftward / rightward	NCN N: Normal speed C: Crank arm N: W/o LED bar
	PAB-B-NFN	The right barrier for parking lots 1) Normal-speed of open / close (4 sec. only) 2) 2-Fence arm, Max. length 4m 3) Inclusive of arm ×1 and push button ×1 which opens/closes barrier 4) Exclusive of remoter, boom bracket: need to buy extraly 5) Can't be equipped with LED light bar and anti-collision mechanism 6) Housing color optional: yellow(default) / orange / white / red / blue 7) Arm direction optional: leftward / rightward	NFN N: Normal speed F: Fence arm N: W/o LED bar