

# PAB-E2 Economic

## Intelligent Barrier

**Dashou**<sup>®</sup>  
Parking System Expert



Anti-collision arm



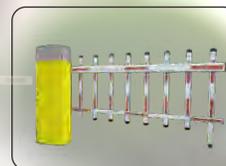
Color optional



90° Crank arm



180° Crank arm



Single fence arm



Double fence arm

CE  ISO9001:2008

## Features

New digital worm gear motor barrier PAB-E2 Economic is the right choice for your parking. It is durable, accurate, flexible and safe, and of course, you can afford it thanks to its economic design. It assembles with Aluminum Alloy octagonal boom with the Max. length of 6m, with the open / close time from 1.5 to 6 seconds.

- **Heavy-duty and simple-design cabinet**

The cabinet adopts 1.5mm precise machining cold-rolled plate and powder coated surface which is non-scale and unfading. Conformed to the IP54 dust proof and waterproof. Simple design also decorates your premises.

- **AC or DC motor optional**

90W/AC220V motor or 80W/DC24 motor is optional. DC version supports back-up battery.

- **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.

- **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: a air wave switch is required

- **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.

- **Safety---Anti-hit by 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.

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

While boom arm moving down a vehicle comes, if a open command is given by the push button or remoter transmitter, the arm will Immediately stop closing, and start opening immediately if an command is given .This will protect the vehicle not to be hit by boom arm.

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## Features

- **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.
- **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
- **Manual control in case of no power**  
Once power is off, just open the cabinet and manually control the barrier by a knob. 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**  
Antifreeze ensures the lubricant will not be frozen so that the barrier will keep working in frozen environment.  
No need to add more antifreeze within the lifetime of barrier
- **Perfect ventilation thanks to a fan**  
The fan which is integrated with the motor will work and reduce the inside temperature once the motor operates.
- **Overheat protection on motor**  
Once the working temperature is more than 80 degree, the motor will stop working. However, before that the barrier will finish current As long as the temperature return normal, the motor will recovery.
- **Control Board in a plastic box**  
Putting the Control Board into a plastic box makes Control Board water proof and dust proof, also protects operator.

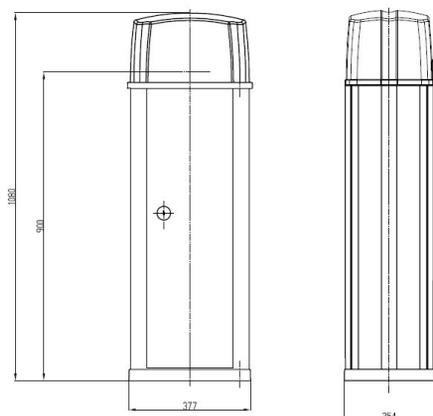
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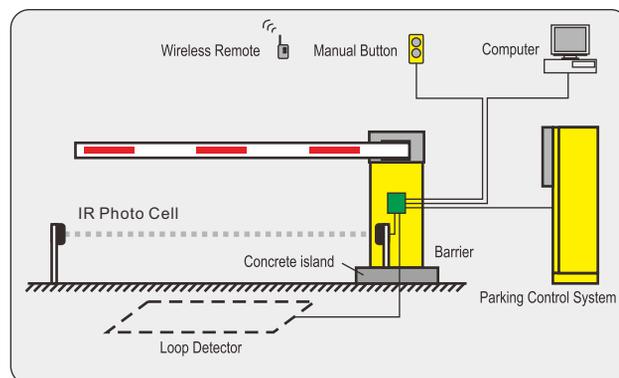
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# PAB-E2 Economic Intelligent Barrier

## Dimension (mm)



## Applications



## Technical Parameter (AC)

Power	220VAC 10%, 50/60HZ;110VAC 10%,50/60HZ
Motor	90W,220VAC
Motor rotation	2800r/min (6s); 1400r/min (1.5s/3s/4s)
Spring	Multi Spring Balance
Input interface	Photo cell, loop detector, parking system
Output interface	Motor, traffic lights
Wireless remoter(optional)	two button remote transmitter, distance>30m
Arm size	50×100mm Aluminum alloy, Max. 6m
Housing dimension	377mm×254mm×1080mm
Gross Weight	around 60 KG
Operating temperature	-20℃ -50℃
Humidity	10%-95%

## Technical Parameter (DC)

Power	220VAC 10%, 50/60HZ;110VAC 10%,50/60HZ
Motor	80W / 24VDC
Motor rotation	2800r/min
Spring	Multi Spring Balance
Input interface	Photo cell, loop detector, battery,parking system
Output interface	Motor, traffic lights
Wireless remoter(optional)	two button remote transmitter, distance>30m
Arm size	50×100mm Aluminum alloy, Max. 6m
Housing dimension	377mm×254mm×1080mm
Gross Weight	around 60 KG
Operating temperature	-20℃ -50℃
Humidity	10%-95%

## Accessories



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



Remoter: two button transmitter, inner antenna, distance>30m



Motor: AC or DC optional



Transformer



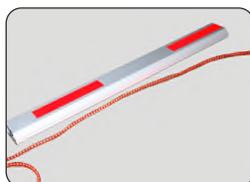
Boom arm bracket



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



Stell springs



Loop Detector



Loop Coil



Photocell

# PAB-E2 Economic Intelligent Barrier

## Model Selection

Photo	Item	Description	Remarks
	PAB-E2-NSN	1) Normal-speed of open / close: 4/6 sec. optional 2) Straight arm, Max.length following: . 6m for 6 sec. . 4.5m for 4 sec 3) Inclusive of <u>remoter transmitter ×2</u> and <u>boom bracket ×1</u> 4) Exclusive of anti-collision mechanism: need to buy additionally 5) Housing color optional: yellow(default) / light yellow / white / red / blue 6) Arm direction optional: leftward / rightward	NSN N: Normal speed S: Straight arm N: w/o LED bar
	PAB-E2-HSN	1) High-speed of open / close: 1.5/3 sec. optional 2) Straight arm, Max. length following: . 3 m for 1.5 sec. . 4 m for 3 sec 3) Inclusive of <u>remoter transmitter ×2</u> and <u>boom bracket ×1</u> 4) Exclusive of anti-collision mechanism: need to buy additionally 5) Housing color optional: yellow(default) / light yellow / white / red / blue 6) Arm direction optional: leftward / rightward	HSN H: High speed S: Straight arm N: W/o LED bar
	PAB-E2-NCN	<i>The right barrier for parking lots(Underground)</i> 1) Normal-speed of open / close: 6 sec. 2) 90 degree Crank arm, Max. length 5 m for 6 sec. 3) Inclusive of <u>remoter transmitter ×2</u> and <u>boom bracket ×1</u> 4) Can't be equipped with anti-collision mechanism 5) Housing color optional: yellow(default) / light yellow / white / red / blue 6) Arm direction optional: leftward / rightward	NCN N: Normal speed C: Crank arm N: W/o LED bar
	PAB-E2-NCN2	<i>The right barrier for parking lots(Underground)</i> 1) Normal-speed of open / close: 6 sec. 2) 180 degree Crank arm, Max. length 5 m for 6 sec. 3) Inclusive of <u>remoter transmitter ×2</u> and <u>boom bracket ×1</u> 4) Can't be equipped with anti-collision mechanism 5) Housing color optional: yellow(default) / light yellow / white / red / blue 6) Arm direction optional: leftward / rightward	NCN N: Normal speed C: Crank arm N: W/o LED bar
	PAB-E2-NFN	1) Normal-speed of open / close: 6 sec. 2) Single fence arm, Max. Length 5 m for 6 sec. 3) Inclusive of <u>remoter transmitter ×2</u> and <u>boom bracket ×1</u> 4) Can't be equipped with anti-collision mechanism 5) Housing color optional: yellow(default) / light yellow / white / red / blue 6) Arm direction optional: leftward / rightward	NFN N: Normal speed F: Fence arm N: W/o LED bar
	PAB-E2-NFN2	1) Normal-speed of open / close: 6 sec. 2) Double fence arm, Max. Length 5 m for 6 sec. 3) Inclusive of <u>remoter transmitter ×2</u> and <u>boom bracket ×1</u> 4) Can't be equipped with anti-collision mechanism 5) Housing color optional: yellow(default) / light yellow / white / red / blue 6) Arm direction optional: leftward / rightward	NFN N: Normal speed F: Fence arm N: W/o LED bar