

## **PBS-289 (PHYSICAL BARRIER SYSTEM)**



A product to secure parking bays indoors and outdoors while offering a better alternative to helping people park their cars. Can be applied in:

- Shopping malls
- Office buildings
- Airports
- Outdoor
- Universities
- Hospitals

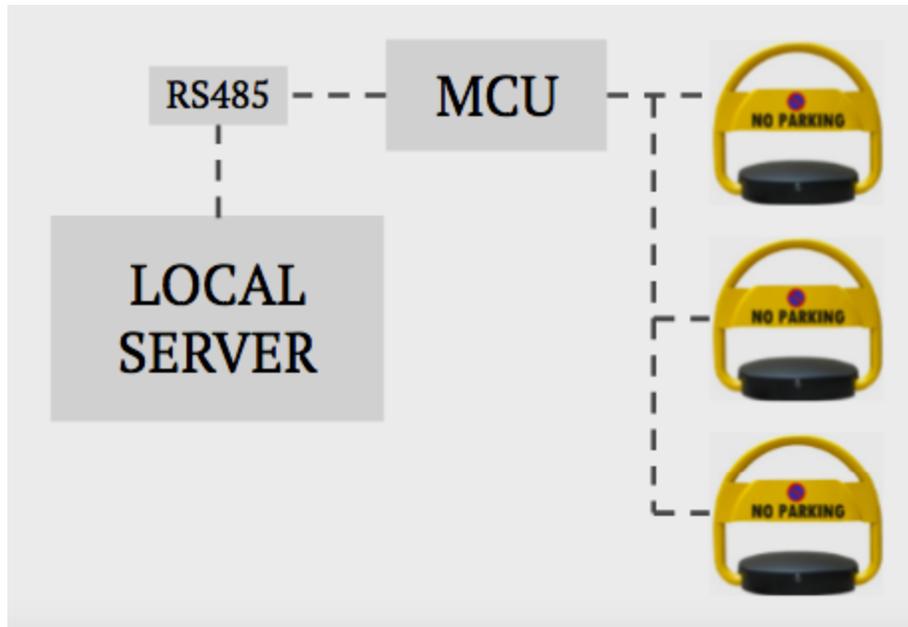
Without the need to barricade an area, the system offers flexibility and reliability with easy installation. With plenty of features to ensure that the PBS not only secures the bay but allows for easy maintenance, this new system is set to change the way people park.

## PBS TECHNICAL PARAMETER

ITEM	PHYSICAL BARRIER SYSTEM
Voltage	DC6V
Static Current	3.5MA
Working Current	3.5A
Running Time Rises or Fall	5 seconds
After Rising Altitude	420mm
After Dropping Altitude	75mm
Remote Controlled Distance	<50m
Environment Temperature	-40°C~80°C
Dimensions	460x460x75mm
Net Weight	8.5kg
Battery Life	28 days

## PBS SOFTWARE CAPABILITIES

- 1. Wireless**  
All barriers are able to communicate wirelessly to the local server through ZigBee which is used to create personal area networks.
- 2. Real Time Parking Availability**  
Attached within the barriers are ultrasonic sensors which are able to detect objects that pass over the barrier when parking and enables real time parking availability data.
- 3. Easily Adaptable**  
Any party will be able to use the barrier to connect with their preferred system according to the protocol that we provide that enables communication with the MCU (Master Controller Unit).
- 4. System Infrastructure Provided**  
The MCU is able to connect with the local server on site through RS485 which is a system created by ParkEasy to help manage the barriers. The system architecture can be viewed below:



## PBS FEATURES

1. Pressure Resistance  
The parking lock can endure a pressure of 500kg without damage under declining condition.
2. Self Locking  
The parking lock can not be distorted permanently by external force except by the owner.
3. Sealing  
The IP protection grade is 65, which can fully prevent the dust and the lock can be rinsed with water without causing any damage. Dust proof and rain proof.
4. Auto Alarm  
When external force is applied to the barrier, an alarm will sound which will automatically turn off once the external force has been removed. The barrier will reset after 5 to 10 seconds.
5. Customisable Timer  
The timing set for unlocking and locking if a vehicle is not parked at the bay can be customised.
6. Theft Protection

The position of the foundation for parking lock and ground installation shall be out of the large external cover. The cover can be opened with the key by the user only.

## **PBS INSTALLATION**

1. Drill three holes (12mm of diameter and 50mm of depth) and install M8 expansion bolts according to the locations of three installation holes on the parking lock foundation.
2. Cover three foundation spaces on the expansion bolts and then cover parking lock foundation, install and tighten the bolts to finish installation.

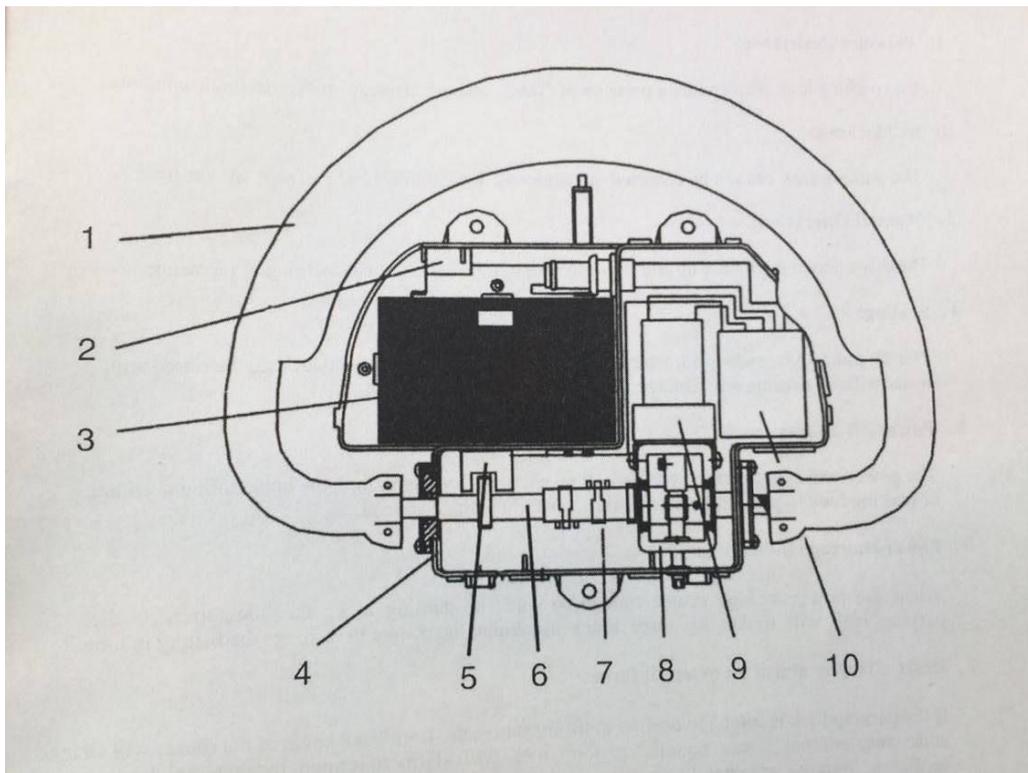
### Installation notes:

- a. It is recommended to provide wiring underground to power the PBS instead of using a battery.
- b. PBS is required to be installed on level and dry cement ground.
- c. The position of the PBS on the bay can be anywhere as long as it can secure the bay from being accessed by unauthorised users.
- d. The PBS can also be used as a means to secure an authorised user from having their car moved by placing it at the front of the bay.

## **PBS MAINTENANCE**

1. Clean the dust and trash on the surface of the body often to ensure the cleanness and dryness of the parking lock as possible.
2. If battery operated, the PBS battery will need to be charged every month to ensure functionality (which is why wiring is preferred)

## PBS STRUCTURE SCHEMATIC DESIGN



1. Rocker Assembly
2. Alarm
3. Battery
4. Box Body Assembly
5. Photoelectric Sensor
6. Drive Shaft
7. Anticollision Device
8. Gearbox
9. Electrical Motor
10. Control Board