SUNGATE





SmarT Park
Intelligent Parking System

Vehicle Access Control

SUNGATE

SmarT Park Intelligent Parking System

Electronic toll system has been widely applied to car parking solution nowadays in Hong Kong environment. **SmarT Park** intelligent parking system works and develops fully autonomously on Octopus card basis , with unique design , comprehensive application feature, user friendliness . The system has a modular structure, it can be configurated and extended to suit different requirement, providing optimum solutions for every application, from a small carpark to a large scales application.

Authorized Contractor of 八達通 OCTOPUS





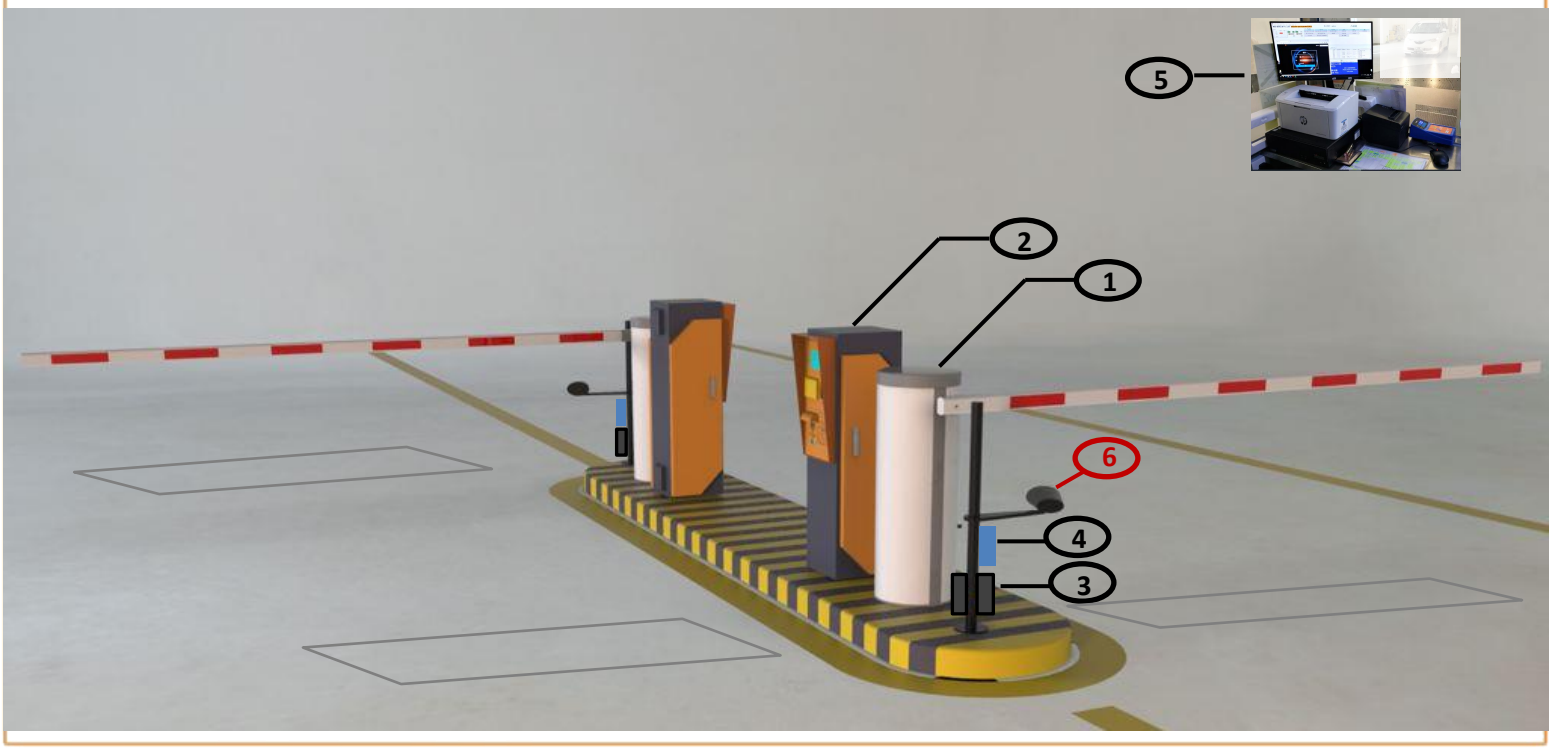
VISA mastercard 支付宝 ALIPAY 支付寶 微信支付

Main feature consists of :

- Entry & Exit access control station
- Payment gateway
- Vehicle Barrier access control gate
- Reporting system
- Centralized Software Management System
- Richful Application Programming Interface feature (API)

Basic System Configuration

1. Barrier Gate
2. Entry & Exit Control Terminal (Octopus , Proximity, Mifare, HID, card , QR code)
3. Loop Detector
4. Safety Sensor
5. Car Park Management System & Cashier Terminal
6. License Plate Recognition System (optional)



Specification subject to change without notice

SmarT Park Intelligent Parking System

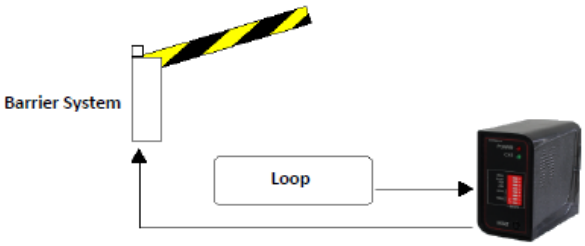
Equipment List



Entry / Exit Control Terminal SP-EN-03 / SP-EX-03
- 480L X 402W X 1200H (mm)
- 7” LCD Display
- Octopus Reader
- Smart Card /QR Code Reader
- Receipt printer
- Intercom with call button



Vehicle Barrier BL-15 : Entry & Exit
- 385 Dia x 1066 H (mm)
- Power supply : 230VAC Single phase
- Adjustable opening time
- IP55
- MCBF : 2.5 million cycle
- EU standard

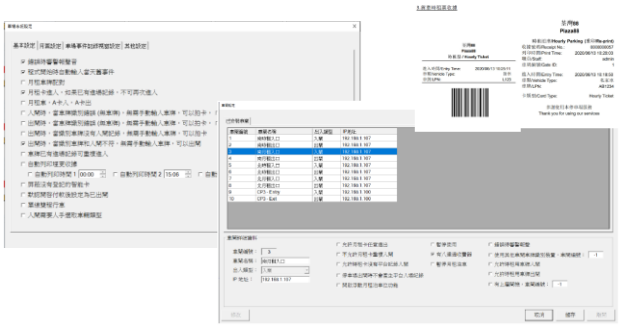


Vehicle Loop Detector : Nortech PD130



Safety sensor : Sick Photocell

Software Management System SP-MS-03
- Management System for Single Carpark solution



Cashier Terminal SP-CM-03
- Window 10 OS license desktop workstation
- Colour Operation LCD 21.5” monitor
- Multipurpose **Octopus** Processors (**MOPs**)
- Laser printer
- Receipt printer
- IP Master Intercom



SmarT Park Intelligent Parking System

Optional items

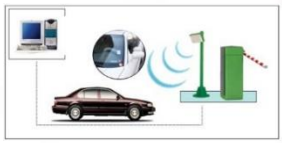
☐ **License Plate Recognition LPR-3X**



☐ **Large Display Stand**



☐ **Long Range Reader**







☐ **Self-service kiosk**



☐ **Digital Space board**





☐ **Other accessories**



Vehicle Height Sensor



Image capture camera

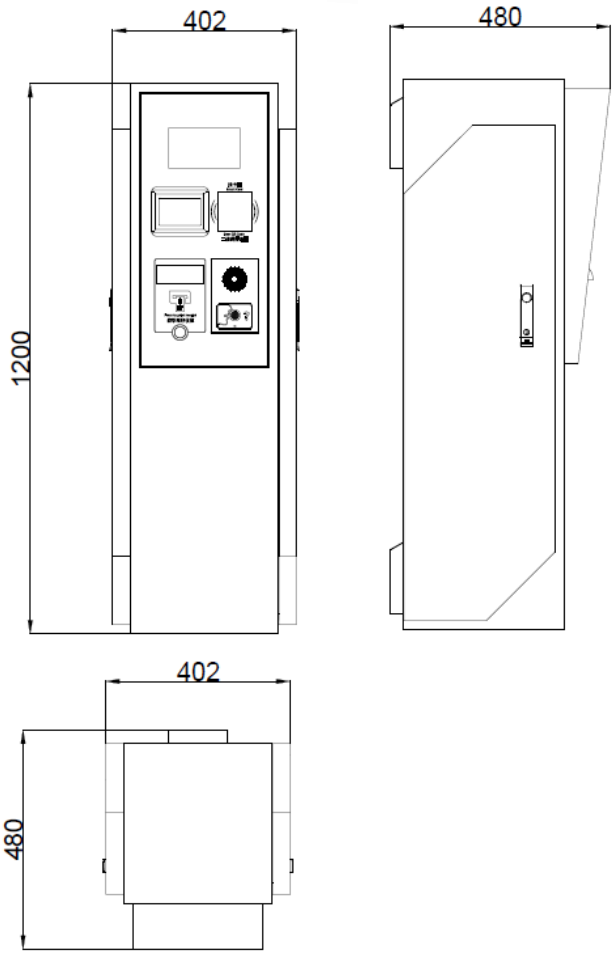
Entry & Exist Control Terminal Data Sheet

Entry & Exit Control Terminal : SP-EN-03 / SP-EX-03



Standard Configuration

1. **Welded Steel Cabinet**
   - Dimension : 480L X 402W X 1200H (mm)
2. **Side swing access panel with lock** (both sides)
3. **7" LCD Display**
4. **Octopus Reader**
5. **Smart Card /QR Code Reader**
6. **Receipt printer**
7. **Intercom with call button**

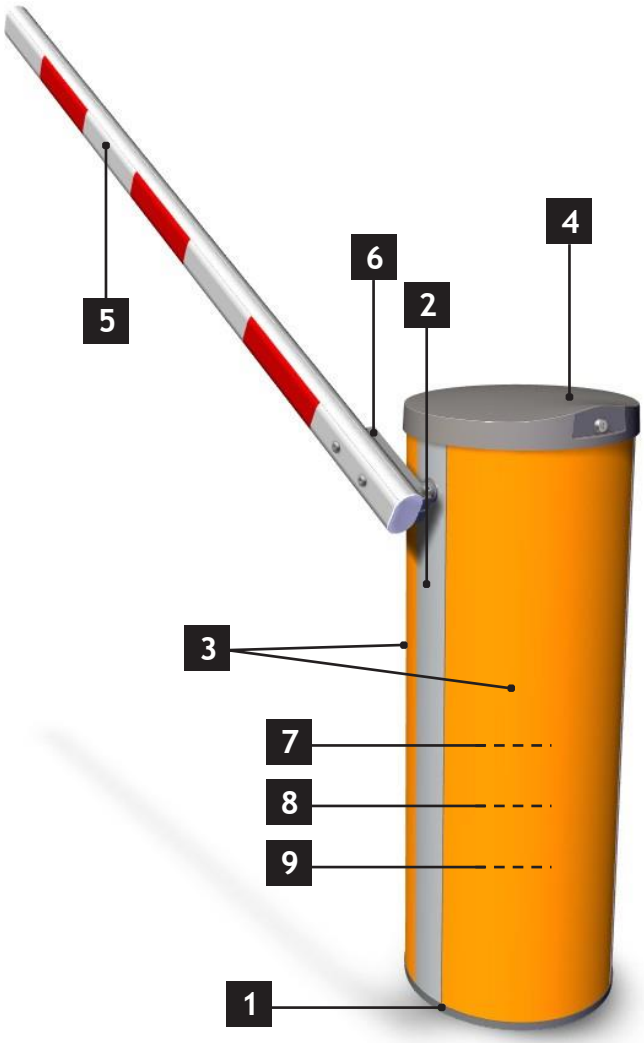


Main Functions :

- Parking Access and Revenue Control (PARC) in verifying levels of functionality and complexity.
- Access management : manage the access in and out of a parking facility , the parker must present a valid parking credential
- Revenue systems allow parking owners and operators to control access and collect parking revenues from users. Revenue control involves monthly and hourly parking management and includes payment at the time of parking.
- Available in varying types of equipment platforms, PARC systems, when combined with policy and procedure, can speed entry and exit from a facility and secure revenues through audit records.

BL-015 Vehicle barrier Data Sheet

BL-015 Vehicle Barrier



Combining speed, ease of use and reliability, the **BL 15** is the rising barrier designed for the access control of public environment.

STANDARD RAL COLORS

RAL 2000 (*)	RAL 3020	RAL 7016	RAL 9010
Orange	Traffic red	Anthracite grey	Traffic white

(*) Standard color. All other colors must be specified when ordering.

Note: These RAL references are available for free.

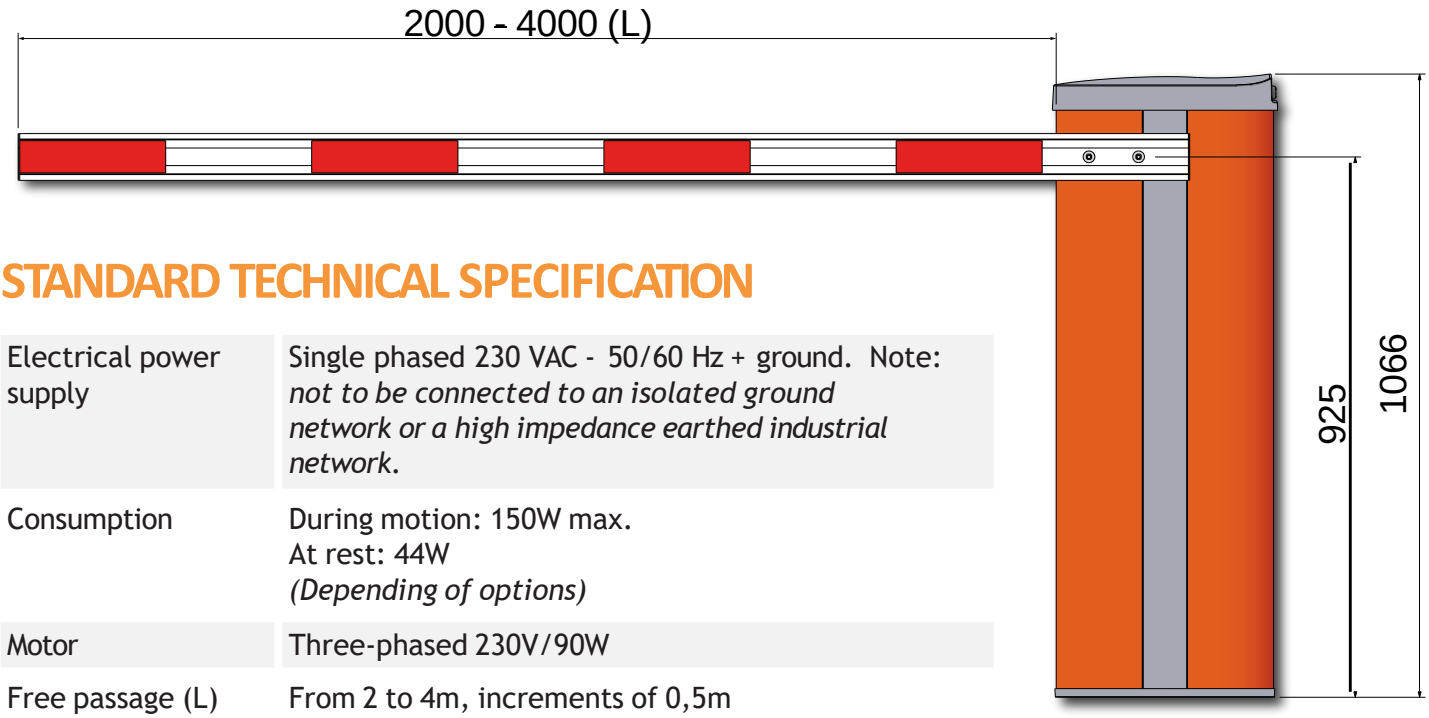
Standard Configuration

1. **Aluminum cast sole plate**.
2. **Anodized aluminum frame**.
3. **Lacquered aluminum housing panels** (selection of 5 colors). «**Qualicoat**» lacquering providing an excellent protection against corrosion.
4. **Aluminum cast hood**, locked by key.
5. **Oval aluminum arm** of section 80 x 54 mm, **lacquered white** *(RAL 9010)* **with red reflective strips**.
6. **Drive shaft**, diameter 30 mm, fitted on a geared motor and a lifetime lubricated bearing.
7. **Automatic opening in case of power failure** *(AVR)*.
8. **Electromechanical assembly** including:
   - **Reversible three-phase asynchronous gear motor**, ensuring protection of the mechanism in case of forced lifting of the arm due to fraudulent action. Maintaining the arm in its 2 extreme positions *(open and closed)*, is achieved by the frequency converter.
   - **Frequency converter** ensuring progressive acceler- ations and dampened decelerations, for movement without vibrations, reversal of direction without jolts *(reopening)* and increased protection of the mechanism.
   - **Electronic limitation of the electromechanical assembly torque allowing** immediate stopping of the arm during closing in case of an obstacle
   - **Analog position sensor** indicating the high and low positions and allowing control of the gear motor.
   - **Balancing of the arm by means of a compensating spring**, according to the weight of the arm.
9. Varnished **electronic control board** offering inputs, outputs and relays adjustable:
   - Adjustable opening and closing speed.
   - Arm position status *(open or closed)*.
   - Swing-off arm sensor.
   - Technical fault information report.
   - Human/Machine interface to change or adjust the electronic control board parameters.
   - HTML interface via Ethernet connector.
   - Socket for presence detector *(2 loops)*.

BL-015 Vehicle barrier Data Sheet

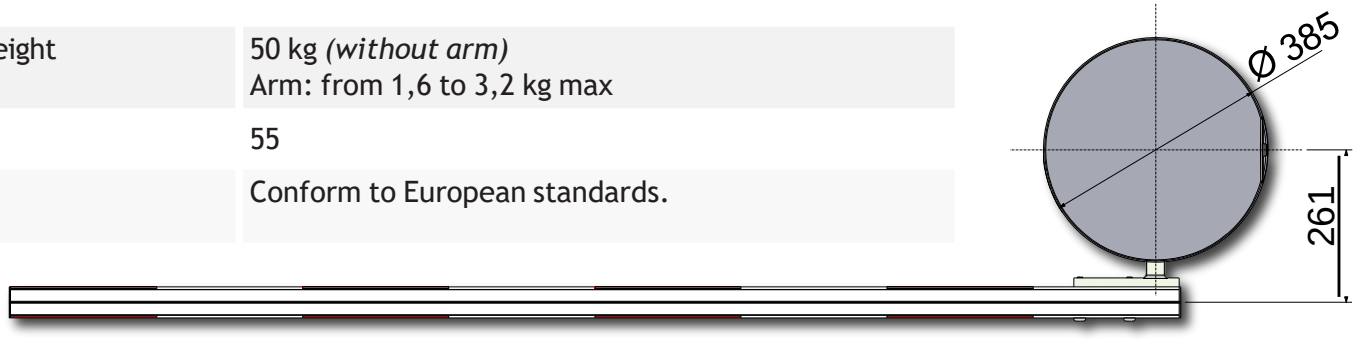
BL-015 Vehicle Barrier

STANDARD DIMENSIONS (MM)



STANDARD TECHNICAL SPECIFICATION

Electrical power supply	Single phased 230 VAC - 50/60 Hz + ground. Note: *not to be connected to an isolated ground network or a high impedance earthed industrial network.*
Consumption	During motion: 150W max. At rest: 44W *(Depending of options)*
Motor	Three-phased 230V/90W
Free passage (L)	From 2 to 4m, increments of 0,5m
Opening time	Adjustable between 1,2 and 3s *(Allowing the passage of 1500 vehicles/h)*
Operating temperature	Between -10 and +60°C.
Relative humidity	95% max, without condensation.
MCBF	Mean cycles between failures - 2.500.000, when respecting recommended maintenance.
Weight	50 kg *(without arm)* Arm: from 1,6 to 3,2 kg max
IP	55
	Conform to European standards.



Software Management System Data Sheet

Car Park Management System : SP-MS-03

Main Function

- System management
- Parameter configuration
- Equipment configuration and administration
- Season parker and contract management
- Data media management
- Revenue collation and management
- System time control and synchronization
- Tariff programming
- System and facility monitoring and control
- Alarm management
- Revenue control and counting
- Occupancy control
- Data base management
- Reports and statistics
- Data backup and export





Cashier Terminal : SP-CM-03



Standard Configuration

- Window 10 O/S license desktop workstation
- Colour Monitor LCD 21.5”
- Multipurpose Octopus Processor (MOP) (210L x 109W x 45H bottom/ 63H top in mm)
- Laser printer for reporting
- Receipt printer
- IP Master Intercom