深圳宝兰安防智能科技有限公司
Shenzhen Bolan Security Technology Co.,Ltd
Shenzhen Baolan Security Smart Technology Co.,Ltd

Vehicle access control boom barrier

BLS-P01S

Features

- **Diversified Stable Drives**
DC brushless, AC induction & servo motors
- **Durable Anti-Corrosion Structure**
IP54+ galvanized/powder-coated chassis; aluminum/flexible/folding arms for impact resistance and safety.
- **Multi-Layer Safety Protection**
Ground coils, infrared sensors & pressure wave modules prevent vehicle/pedestrian collisions and crushing.
- **Intelligent System Compatibility**
Integrates with LPR/RFID/fee systems; RS485/Mod bus for centralized device monitoring and management.
- **All-Weather Adaptability**
rain/dust/UV resistant for indoor and outdoor applications.
- **Modular Easy Maintenance**
Modular components with self-diagnosis and error codes, reducing maintenance time and costs.
- **Adjustable Operation Parameters**
Customizable arm speed (0.8–6s), closing delay and collision sensitivity for varying traffic densities

Solutions:

- Access Control System (ACS)
- CCTV Surveillance System
- License Plate Recognition (LPR) System
- Automatic Barrier Gate System
- Parking Lot Management System
- Perimeter Intrusion Detection System (PIDS)
- Fire Alarm & Emergency Linkage System
- Centralized Security Management Platform
- Remote control, exit button
- Traffic light

Technical Specifications

Parameter	Specification
Body size	350 *270 *980 mm Carbon steel with yellow, black, golden optional
Boom Length	3000mm - 6000mm (customizable for lane width)
Boom Material	Aluminum alloy(round and rectangle, different colors optional)
Opening Speed	1.5 - 6 s (full rotation from closed to open state) 0.3-0.6s(savor motor high speed boom barrier, for highway and high traffic flow)
Closing Speed	3 - 8 s (adjustable to avoid collision)
Driving Mode	Electric motor (AC/DC brushless, planetary savor motor) ; with manual override for emergency
Rated Voltage	AC 110V-240V ± 10% / DC 12V/24V (for small-sized models)
Rated Power	80W - 500W (varies with boom length and model, DC motor: 80W-120W, AC motor 100W-180W, Savor motor 400-500W)
Max Load Capacity	≤ 50kg (boom load; suitable for light-duty vehicle control)
Control System	PLC / Single-chip microcomputer; supports remote control, card swiping & access control, LPR systems etc linkage
IP Rating	IP54 - IP65 (suitable for outdoor use, dust & rain resistant)
Operating Temperature	-20°C to +60°C (adaptable to common outdoor environments)
Safety Device	Infrared photoelectric sensor, ground loop detectors, traffic light optional; auto-reverse when obstacle detected

Core function:

Authorized Access Control

Validate authorized vehicle credentials to permit entry, while denying unapproved vehicles and eliminating illegal parking issues.

· Traffic Order Regulation

Streamline vehicle entry and exit flow to maintain order, mitigating congestion, collisions and arbitrary parking incidents.

· Fee System Integration

Sync with automated payment platforms to activate barrier lifting immediately upon successful transaction completion.

· Vehicle & Pedestrian Safety Protection

Integrate anti-crush and anti-collision sensors to avert accidental vehicle damage and pedestrian injuries during barrier operation.

· Emergency Passage Guarantee

Enable manual or backup-powered barrier release to ensure unobstructed vehicle passage during power failures or emergencies.

· Remote & Automated Operation

Integrate with LPR and RFID systems for automated access control, and support remote monitoring and operation of barrier devices.

Applications:

• Suited for applications requiring high access and mid levels of security

• Used extensively in applications such as government institutions, prisons, airports or railway stations, university, schools, high-end residential areas, commercial buildings etc all of vehicle access requirements sites

Dimensions: