

Highway ultra speed boom barrier BLS-P09H



Features:

• Ultra-Fast Lifting & Lowering Response

Completes opening and closing in just 0.3–0.6 seconds (model-adjustable), greatly cutting down vehicle waiting time at busy checkpoints.

• High-Precision Servo Motor Drive

Uses brush-less servo or variable-frequency motors for stable, quiet running and precise arm control, with good voltage fluctuation resistance.

• Multi-Layer Safety Protection

Equipped with anti-crushing radar, loop detectors and obstacle rebound sensors; automatically stops or reverses to protect vehicles and pedestrians.

• Intelligent System Integration

Works seamlessly with LPR, ETC and IoT platforms, supporting remote control, automatic access approval and real-time status monitoring.

• Rugged Weather-Resistant Build

Lightweight yet strong aluminum alloy or carbon fiber boom; corrosion-resistant galvanized steel cabinet for outdoor use from -40°C to +70°C.

• Adaptive Traffic Flow Control

Features dynamic speed adjustment, optimizing operation speed based on real-time traffic to balance efficiency and safety.

• Low Power Consumption

Ultra-low standby power (<5W) and support for solar power enable energy-efficient and eco-friendly operation. + + + + +

• Easy Maintenance & Self-Diagnosis

Built-in self-detection system identifies and alerts faults such as motor overload or sensor failure, reducing maintenance time and cost.

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	338*313*945mm Carbon steel with yellow, black, golden optional
Boom Length	3000mm (customizable for lane width)
Boom Material	Carbon fiber (round , different colors optional)
Opening Speed	0.3-0.6s(savor motor high speed boom barrier, for highway and high traffic flow)
Closing Speed	0.3 - 0.8 s (adjustable to avoid collision)
Driving Mode	Electric motor (planetary servo motor) ; with manual override for emergency
Rated Voltage	AC 110V-240V \pm 10% / DC 12V/24V (for small-sized models)
Rated Power	400W - 500W (varies with boom length and model, DC motor: 80W-120W, AC motor 100W-180W, Servo motor 400-500W)
Max Load Capacity	\leq 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:

- High-Efficiency Traffic Management

Ultra-fast arm movement (0.3–0.6 seconds) reduces vehicle queuing, ideal for toll plazas and transport hubs.

- Authorized Vehicle Access Control

Verifies vehicles via LPR, ETC or RFID, allowing only approved access and blocking unauthorized entry.

- Multi-Layer Anti-Collision Protection

Radar, ground loops and infrared sensors detect obstacles; arm reverses or stops to protect vehicles and pedestrians.

- Dynamic Traffic Adaptation

Adjusts operation speed based on real-time traffic, balancing peak-hour efficiency and off-peak safety.

- Remote Monitoring & Automation

Supports remote control, real-time status monitoring and IoT-based centralized management.

- Seamless Payment Integration

Connects with toll or parking systems; arm lifts automatically after payment for smoother transactions.

- Emergency Passage Support

Backup power and manual release ensure barrier opens during outages or emergencies for safe evacuation.

- Zoned Access Permissions

Works with access platforms to set different rights for emergency, official and other vehicle types.

Applications:

- Suited for applications requiring high access and mid levels of security
- Used extensively in applications such as highway toll station, plaza, airports or railway stations, university, schools, high-end residential areas, commercial buildings etc all of vehicle access requirements sites

Dimensions: