ZKTeco

SBTL8000 Series
Reliable Swing Barrier
Elegance Meets Endurance

Introduction

The ZKTeco SBTL8000/SBTL8200 series swing barrier provides advanced access control, blending robust security with an efficient passage experience. The transparent acrylic swing barriers and full aluminium top cover with tempered glass lid create a modern, premium aesthetic, and the SUS304 stainless steel chassis ensures durability and long-term stability.

What sets this series apart is its comprehensive integration of safety and deployment efficiency. Driven by a high-precision servo motor, the swing barrier provides smooth movement with an adjustable opening and closing time of 0.3 to 0.6 seconds, enabling efficient passenger flow while maintaining strict access control. The SBTL8000/SBTL8200 series is equipped with 12–18 pairs of infrared sensors for precise pedestrian detection and provides an adjustable lane width of 660 mm (standard) to 1000 mm (optional), accommodating diverse accessibility needs. The swing barrier is pre-assembled for rapid installation and integrates seamlessly with ZKBio CVAccess or ZKBio CVSecurity to form a comprehensive access control solution.

Key Features

Multiple Biometric Authentication Methods
Equipped with flexible under mount and pole mount authentication options, including facial recognition, RFID, and QR code (dynamic/static), the swing barrier delivers secure, touchless access control tailored to your operational needs.

Rugged All-Weather Durability
Achieved IPX4 water-resistant protection rating fits for all-weather conditions. The swing barrier delivers robust durability with a Mean Cycles Between Failures (MCBF) of up to 10 million, and ensures minimal downtime with a Mean Time To Repair (MTTR) of less than 60 minutes.

High Performance Servo Motor
Designed for high-traffic environment, 0.3 to 0.6 second opening and closing time, enabling seamless passenger flow of up to 35 users per minute. Experience the perfect balance of speed and security, maintaining precise access control at every entry point.
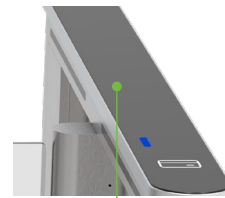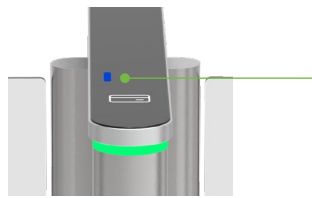
Safety and Security
Barriers auto-unlock on power outage or fire alarm, switching to normally open for rapid egress. The swing barrier also supports manual emergency door release to ensure unobstructed evacuation. It features anti-tailgating and anti-pinch protection enhance user safety.

IR Sensors for Enhanced Detection
The swing barrier integrates 12 pairs of infrared sensors (up to 18 pairs, optional) for full-area pedestrian detection, enhancing anti-pinch and anti-tailgating safety. An internal clutch engages instantly to halt swing barrier operation, protecting users and preventing device damage.

Multiple Under mount Biometric Authentication Methods
Offers versatile under mount plates supporting facial authentication, QR code, RFID verification to meet diverse credential requirements.
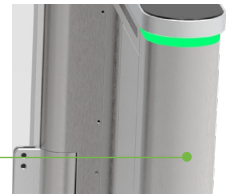
Built with Tempered Glass & Full Aluminum Cover
Scratch-resistant, abrasion-proof and for years of reliable, intensive use.

Infrared Sensor
Up to 18 pairs of IR sensors provide full-area coverage for enhanced accuracy and safety.

Stainless Steel Chassis
Rust-proof and corrosion-resistant for enhanced durability.

Elevated Swing Arm
Supports elevated barrier height with a maximum of 1,800mm ground clearance, preventing unauthorized entry or reverse flow.

IPX4 Water Resistant
Features an inverted motor with waterproof design, delivering stability and reliable performance in outdoor.

Specifications

Model	SBTL8000 Series	SBTL8200 Series
Audio Indicator	Internal buzzer	
Visual Indicator	Top LED indicator: Blue=Door closed / standby Green=Door open Red=Door close/alarm	
Display	N/A	
Lane Type	Single Lane	Dual Lane
Lane Width	660mm (Standard) / 1000mm (Optional)	
Barrier Movement Type	Swing	
Barrier Material	Transparent Acrylic	
Barrier Size	715mm * 295mm (L*W)	
Motor	Servo motor	
Movement Speed	Average 0.3s to 0.6s per movement (Adjustable open/close timing)	
Movement Accuracy	N/A	
Clutch	Equipped	
Lid Material	Full aluminium top cover with tempered glass	
Lid Options Authentication Methods	Undermount options: QR Code (Dynamic/ Static)/ RFID Post mount options: Facial Authentication	
Chassis Material	SUS304 stainless steel	
Chassis Colour	Metallic gray	

IR Sensors	12 pairs (Standard); 18 pairs (Optional)	
Motherboard Function	System configuration, access mode configuration	
Motherboard Communication	Fire alarm port (Relay)*1, RS485 port*1	
Controller	Not equipped, C3 series controller/ InBio series controller (optional). 3rd-party controller subject to turnstile chassis space.	
Credential Options	Post mount RFID reader: (support model: Pro ID Series, KR Series) Post mount QR code reader: QR500	
Flow Rate	Facial Authentication: 30 passengers per minute QR Code(Dynamic/ Static): 30 passengers per minute RFID: 35 passengers per minute	
Accessibility	Adult, children and elderly (with care), Disability (with care)	
Power Supply	AC 100V–220V,50/60 Hz	
Power Rating	40VA (Standby); 120VA (Operation)	
Fire Signal	Input for voltage-free contact	
Noise Level	Less than 60 dB	
MTTR	60 minutes	
MCBF	10 million	
Weight	220kg	130kg
Dimensions(L*W*H)	1613*134*1017.5mm (standard ;IPX4 protection rating) 1613*134*1031.5mm (optional ; IP65 protection rating)	
Dimensions with Packaging(L*W*H)	1770*370*1125mm (2 boxes)	1770*370*1125mm (1 box)
Operating Temperature	−20℃ to 70℃	
Operating Humidity	0% to 95% RH (non-condensing)	
Certifications	CE, FCC	
Ingress Protection Rating	IPX4 for water resistant(standard); IP65 for dustproof and waterproof(internal componenets customized upon customer request) Note: Please be aware that selecting the IP65 ingress protection rating will increase the overall device height by 14mm compared to the standard IPX4 configuration.	
Supported Software	ZKBio CVAccess / ZKBio CVSecurity (depends on equipped access controller)	
Safety Features	Power off unlock device/ Fire alarm active door release	
Security Features	Anti-tailgating, anti-pinch	
Product Delivery	Pre-assembled for easy installation	
Application Environment	Indoor/outdoor	
Site Preparation	Flat and level finished floor (optional base plate for unfinished floors)	
Security Level	Middle	
Emergency Mode	Swing barrier unlocks automatically	
Packing Material	Wooden Box	

Dimensions(mm)