

Saturn-S2000 Series

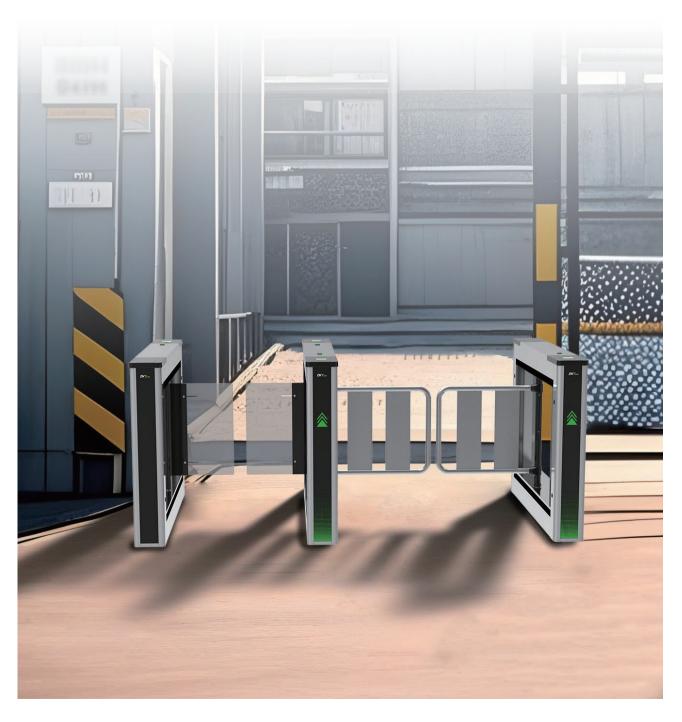
Secure and Spacious
Ultra Wide Lane Design for Motorcycle Access











Introduction

Unveiling the ZKTeco Saturn-S2000, an innovative swing barrier turnstile designed for an unparalleled passage experience. The Saturn-S2000 offers two models (S2000 and S2200). Its chassis is mainly made from stainless steel material(SUS304), providing an IP54 protection rating that ensures it can withstand water and dust. Also, Saturn-S2000 is equipped with a clutch to enhance security.

The Saturn-S2000 has been upgraded with a notable feature: a standard 12 pairs of infrared sensors (expandable to 18 pairs) with integrated dual-zone pinch protection. It ensures enhanced safety and improved obstacle detection. Also, the authentication area is enhanced with 2.5D tempered glass for scratch resistance.

Saturn-S2000 maintains its multi-authentication flexibility as before, with facial, QR code and RFID card verification. Additionally, Saturn-S2000 features an expanded 900-1200mm channel width with stainless steel swing barrier, specifically engineered to accommodate both pedestrians and two-wheeled motorcycles. The robust design maintains security while allowing smooth transit for authorized vehicles.



Pedestal Removable Design

Both side pedestals can be removed, providing maximum convenience during installation.

Floating Base System

For flexible installation and it is compatible with various floor surfaces. With floating beam architecture.

Durability

The lid is made using an integrated molding process, achieves an IP54 protection rating, offering robust defense against water and dust. The product is designed to thrive in extreme conditions, maintaining functionality after an 8-hour period in sub-zero temperatures as low as -30°C.



Material Innovation

The outer surface is treated with stainless steel brushing, steel surfaces with unique, uniform, and delicate filament - like textures, adding a sense of sophistication and a high - end look. The resulting soft luster is more comfortable to the eye compared to the intense reflection of mirror - finished stainless steel. In terms of durability, it significantly improves scratch and wear resistance, and also enhances corrosion resistance to some extent by optimizing the surface microstructure. The identification area is elegantly embedded with 2.5D tempered glass, which is resistant to scratches and wear, enhancing the clarity of the identification process.



DC Brushless Motor

The Saturn-S2000 uses DC brushless motors, which are stable and reliable, and the movement life reaches 5 million MCBF.

The barrier material is made of acrylic and the default lane width is 600mm, and an optional lane width 900mm is available.

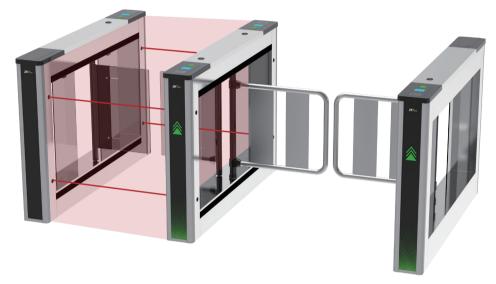
*When the lane width extends beyond 900mm to 1200mm, the barrier must be upgraded to stainless steel (replacing the acrylic material).



^{*}Stainless steel barrier material required for lane widths exceeding 900mm.

Safety and Security

The safety features include opening the gate when power is cut, multiple anti-pinch functions, and the product has an emergency door - opening function. Whether there is a power outage or a fire incident, the device can be activated to the normally open mode. Regarding the anti - pinch feature, it not only has multiple pairs of infrared sensors to prevent pinching people, but also an internal clutch that can respond immediately to stop the device from further operation. It provides a standard of 12 pairs of infrared sensors, expandable to 18 pairs for enhanced coverage. This comprehensive detection system precisely identifies unauthorized access attempts including tailgating, reverse passage, and crawling incidents.

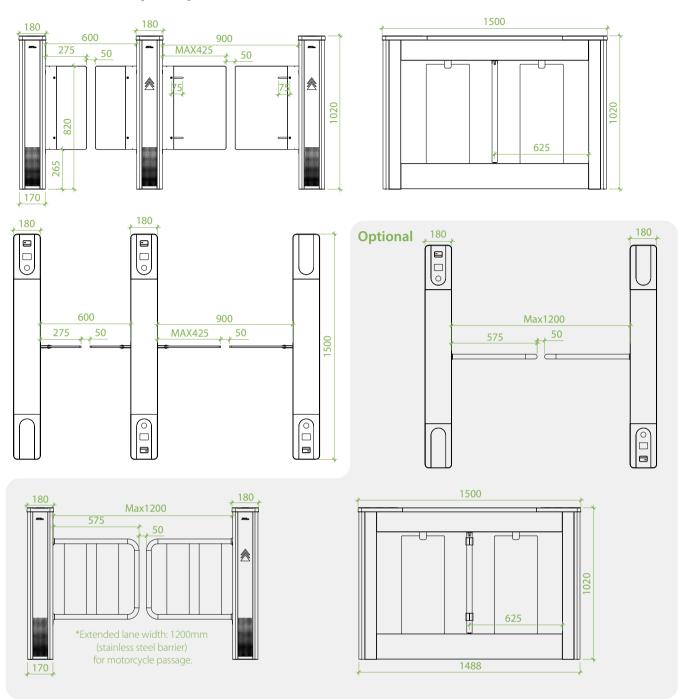


Specifications

Model	Saturn-S2000	Saturn-S2200
Audio Indicator	Internal speaker	
Visual Indicator	Top LED indicator: Blue=Door closed/stand b Green=Door opening Red=Door closing/alarm	Side LED indicator by Green=Lane available Red=Lane unavailable
Display	NA	
Lane Type	Single lane	Dual Swing (for additional lane)
Lane Width	600~900mm (Optional) (Acrylic) Maximum 1200mm (Optional) (Stainless steel) (For two-wheeled motorcycle access)	
Barrier Movement Type	Swing	
Motor	DC brushless motor	
Movement Speed	Average 1s per movement (Adjustable open/close timing)	
Movement Accuracy	Middle	
Clutch	Equipped	
Lid Material	Stainless steel & Polycarbonate	

Chassis Material Chassis Colour Cay(Sandard) Barrier Material Motherboard Function Motherboard Function Motherboard Communication File alarm port (#alay**1, PS-4485 port*1, Controller Communication File alarm port (#alay**1, PS-4485 port*1, Controller Communication Barrier Material Barrier Barrie	Lid Options Authentication Methods	Streamlined under mount options: QR Code / RFID Surface mount option: Facial Authentication		
Barrier Material Barrier Mate	Chassis Material	Stainless steel (SUS304) (Chassis Body) / Aluminum Alloy (Gate Column)		
(380°555'10mml (optional) When the lane width is 900-1200mm, stainless steel barriers are required. It Sensors 12 pairs (standard): It a pairs (Stothonal) Motherboard Function System configuration, access control Motherboard Communication Fire alarm port (relay)*1, RS485 port*1, Controller Compatible width (Sympton model: fron D Series, R4 Senes) Under mount R7ID reader (support model: fron D Series, R4 Senes) Under mount Engaperint reader (R1200/ER1500S) Flow Rate Plow Rate Plow Rate Plow Rate Power Supply 110V / 220V ±10% AC @50Hz06Hz Power Supply 110V / 220V ±10% AC @50Hz06Hz Power Rating 20VA (Standby) 40VA (Operation) Fire Signal Input for voltage free contact Noise Level Less than 60 minutes MCBF MCBF Weight 100Vg (Net weight) 140Vg (Cross weight) 100Vg (Cross weight) 1500*180*100mm Dimension (L*W*H) 1500*180*100mm Jiso0*180*100mm Jiso0*180*100mm Jiso0*180*100mm Jiso0*180*100mm Certifications CE, FCC Under mount Fire Signal Supported Software Voltage free contact Voltage free contact Noise Level Less than 60 minutes 1500*180*100mm 1500*180*100mm 1500*180*100mm 1500*180*100mm 1500*180*100mm 1500*180*100mm 1500*180*100mm 1500*180*100mm Jiso0*180*100mm Jiso0*180*100mm Jiso0*180*100mm Accepting Temperature Operating Temperature Operating Temperature Voltage free contact input for fire alarm fail state automatic awing barrier open during power off Anti-talligating, anti-pinch Product Delivery Preassembled Application Environment Site Preparation Security Features Product Delivery Application Environment Site Preparation Security Features Emergency Mode	Chassis Colour	Gray(Standard)		
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Credential Options	Controller	Compatible with C3 / InBio Series or 3rd-party controller.		
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Application Environment Indoor / outdoor (if sheltered) Flat & level finished floor (base plate in options for unfinished floor) Security Level Medium Emergency Mode Support (swing barrier open automatically)	Security Features	Anti-tailgating, anti-pinch		
Site Preparation Flat & level finished floor (base plate in options for unfinished floor) Security Level Medium Emergency Mode Support (swing barrier open automatically)	Product Delivery	Pre-assembled		
Site Preparation (base plate in options for unfinished floor) Security Level Medium Emergency Mode Support (swing barrier open automatically)	Application Environment	Indoor / outdoor (if sheltered)		
Security Level Medium Emergency Mode Support (swing barrier open automatically)	Site Preparation			
Emergency Mode Support (swing barrier open automatically)	Security Level			
	Emergency Mode	Support (swing barrier open automatically)		
	Packing Material	Wooden		

Dimensions (mm)



Acrylic material: The standard lane width is 600mm, and it can be extended to 750mm. The maximum wide lane width is 900mm, and it can be reverted back to 750mm if peeded

Application Scenarios









Scenic area

Factory

Hospital

Transport Terminal

