

Saturn-S2000 Series

Secure and Spacious
Ultra Wide Lane Design for Motorcycle Access

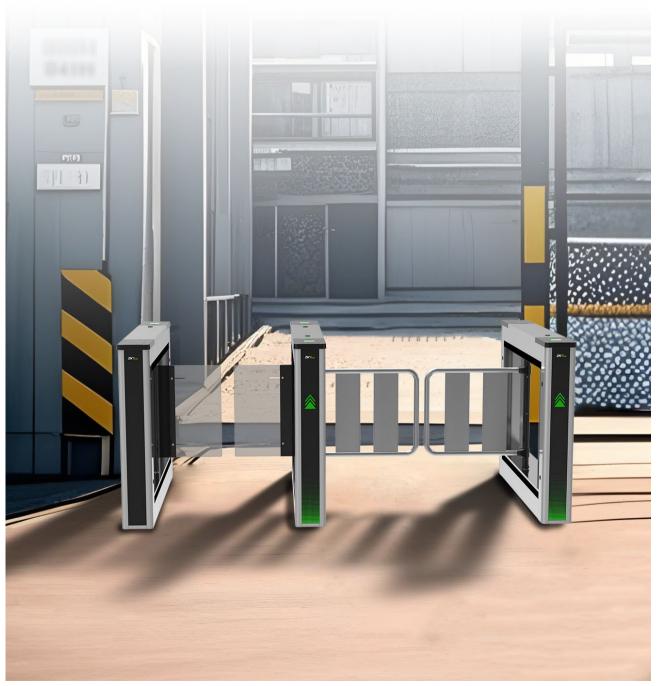












Introduction

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 IP56 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

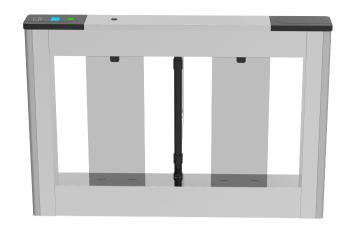
Both side pedestals can be removed, providing maximum convenience during installation.

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 IP56 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.

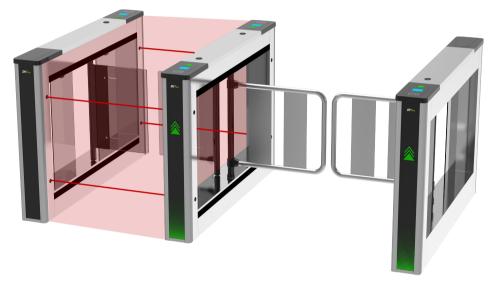
*When the lane width extends beyond 900mm to 1200mm, the barrier must be upgraded to stainless steel (replacing the acrylic material).



^{*}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.

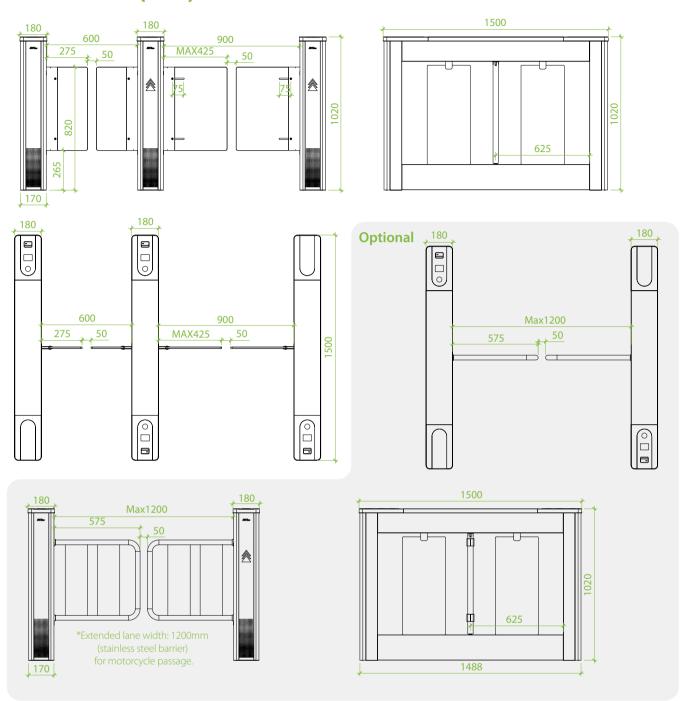


Specifications

Model	Saturn-S2000	Saturn-S2200	
Audio Indicator	Internal speaker		
Visual Indicator	Top LED indicator: Blue=Door closed/stand by Green=Door opening Red=Door closing/alarm	Side LED indicator y 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 Goy(Sandard) Barrier Material Light gray transparent acrylic (305/55110mm) (standard) / Light gray transparent acrylic (305/55110mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (880/55510mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (880/55510mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (880/55510mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (880/55510mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (880/55510mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (880/55510mm) (optional) When the law worth is 900-120mm) (optional) When the law worth is 900-120mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (980/55510mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (980/55510mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (980/55510mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (980/55510mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (980/55510mm) (optional) When the law worth is 900-120mm, which worth is 900-120mm, stanless steel barriers are required. (980/55510mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (980/55510mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (980/55510mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (980/55510mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (980/55510mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (980/55010mm) (optional) When the law worth is 900-120mm, stanless steel barriers are required. (980/55010mm) (optional) When the l	Lid Options Authentication Methods	Streamlined under mount options: QR Code / RFID Surface mount option: Facial Authentication		
Barrier Material Light gray transparent acrylic (305*555*10mm) (standard) / Light grey transparent acrylic (380*555*10mm) (optional) When the lane worth is 900-1200mm, stainless steel barriers are required. If Sensors 12 pairs (standard) 15 pairs (Optional) Motherboard Communication System configuration, access control File alarm port (relay)*1, ISMS port*1, Controller Compatible with C3/1865 Series or 3rd-party controller. Under mount RRID reader (support model- Pro ID Series, IM Series) Under mount fingerprint reader-IM 1700/RR 1900s Facial Authentication: 15 passengers per minute OR Code 30 passengers per minute Accessibility Adult, children (with carc), Disability (with carc) Power Supply 110V 220V ±10% AC (e50Hz/60Hz) Power Rating 20VA (standby) 40VA (Operation) Fire Signal Input for voitage fine contact Loss than 00dB MTTR Less than 60 minutes MCBF 5 million MCBF 100Kg (Net weight) 110Kg (Gross weight) Dimension (L*W*H) Dimension (L*W*H) Dimension (L*W*H) Dimension (L*W*H) Operating Femperature Operating Femperature -30°C to 70°C Operating Hunidity System contact input for file alarm tall state automatic swing barrier open automatically Power Supply Application Environment Indoor / outdoor if shetered) Facility Access of the service of the serv	Chassis Material	Stainless steel (SUS304) (Chassis Body) / Aluminum Alloy (Gate Column)		
(380°555°10mm) (optional) When the lane width is 9001-1200mm, stainless stee barriers are required. It Sensors	Chassis Colour	Gray(Standard)		
Motherboard Function Motherboard Communication Fire alarm port (relay)*1, RS485 port*1, Controller Compatible with C3 / inBio Series or 3rd-party controller. Credential Options Under mount RFID reader (support model: Pro ID Series, KR Series) Under mount fingerprint reader: RRI 1200/FRI 1500S Flow Rate Flow Rate Plow Rate RFI 200 (Code: 30 passengers per minute QR Code: 30 passengers per minute QR Code: 30 passengers per minute Accessibility Adult, children (with care), Disability (with care) Power Supply 110V / 220V ± 10% AC @50Hz/60Hz Power Rating 20VA (Standby) 40VA (Operation) Fire Signal Input for voltage free contact Noise Level Less than 60 minutes MCBF Smillion Weight 100kg (Net veright) 140kg (Gross veright) Dimension (L*W*H) Dimension (L*W*H) Dimension (L*W*H) Dimensions With Packing (L*W*H) Operating Temperature Operating Humidity Silo to 900 RH (Non-condensing) Certifications Ingress Protection Rating Supported Software ZKBio CVAccess / ZKBio CVSecurity (Depends on equipped access controller) Safety Features Anti-taligating, anti-princh Pro acceptation Silo Preparation Support (swing barrier open automatically)	Barrier Material			
Motherboard Communication Controller Compatible with C3 / IniBo Series or 3rd party controller. Credential Options Under mount IRID reader: (support model: Pro ID Series, IRI Series) Under mount IRID reader: (support model: Pro ID Series, IRI Series) Under mount IRID reader: (support model: Pro ID Series, IRI Series) Under mount IRID reader: (support model: Pro ID Series, IRI Series) Under mount IRID reader: (support model: Pro ID Series, IRI Series) Under mount IRID reader: (support model: Pro ID Series, IRI Series) Under mount IRID reader: (support model: Pro ID Series, IRI Series) Under mount IRID reader: (support model: Pro ID Series, IRI Series) Under mount IRID reader: (support model: Pro ID Series, IRI Series) Under mount IRID reader: (support model: Pro ID Series, IRI Series) Under mount IRID reader: (support model: Pro ID Series, IRI Series) Under mount IRID reader: (support model: Pro ID Series, IRI Series) Under mount IRID reader: (support model: Pro ID Series, IRI Series) Under mount IRID reader: (support model: Pro ID Series, IRI Series) Under mount IRID reader: (support for IRI Series) Under Mother for IRI Series U	IR Sensors	12 pairs (standard) ;18 pairs (Optional)		
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Under mount RTID reader, (support model: Pro ID Series, KR Series) Under mount fingerprint reader: FR1200/FR15005 Facial Authentication: 15 passengers per minute QR Code: 30 passengers per minute RTID: 35 passengers per m	Motherboard Communication	Fire alarm port (relay)*1, RS485 port*1,		
Credential Options	Controller	Compatible with C3 / InBio Series or 3rd-party controller.		
Flow Rate CR Code: 30 passengers per minute RPID: 35 passengers per minute RPID: 36 passengers per minute Power Supply TID: 36 passengers per minute RPID: 36 passengers per minute Power Supple PiD: 36 passengers per minut	Credential Options			
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Power Rating 20VA (Standby) 40VA (Operation) Fire Signal Input for voltage free contact Noise Level Less than 60dB MTTR Less than 60 minutes MCBF 5 million Weight 100Kg (Net weight) 100Kg (Gross weight) Dimension (L*W*H) 1500*180*1020mm Dimensions With Packing (L*W*H) 1580 * 340 * 1270 (mm) (2pcs) 1580 * 340 * 1270 (mm) Operating Temperature Operating Humidity S% to 90% RH (Non-condensing) Certifications CE, FCC Ingress Protection Rating Supported Software Voltage free contact input for fire alarm fail state automatic swing barrier open during power off Security Features Anti-tailgating, anti-pinch Product Delivery Application Environment Indoor / outdoor (if sheltered) Site Preparation Security Level Medium Emergency Mode Support (swing barrier open automatically)	Accessibility	Adult, children (with care), Disability (with care)		
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MCBF MCBF S million Weight 100Kg (Net weight) 100Kg (Gross weight) 1500*180*1020mm Dimension (L*W*H) 1500*180*1020mm 1580 * 340 * 1270 (mm) (2pcs) 1580 * 340 * 1270 (mm) Operating Temperature -30 °C to 70 °C Operating Humidity S% to 90% RH (Non-condensing) Certifications CE, FCC Ingress Protection Rating IP56 (water & dust proof) Supported Software ZKBio CVAccess / ZKBio CVSecurity (Depends on equipped access controller) Safety Features Voltage free contact input for fire alarm fail state automatic swing barrier open during power off Security Features Anti-tailgating, anti-pinch Product Delivery Application Environment Indoor / outdoor (if sheltered) Site Preparation Security Level Medium Emergency Mode Support (swing barrier open automatically)	Fire Signal	Input for voltage free contact		
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Certifications CE, FCC Ingress Protection Rating IP56 (water & dust proof) Supported Software ZKBio CVAccess / ZKBio CVSecurity (Depends on equipped access controller) Voltage free contact input for fire alarm fail state automatic swing barrier open during power off Security Features Anti-tailgating, anti-pinch Product Delivery Pre-assembled Application Environment Indoor / outdoor (if sheltered) Site Preparation Site Preparation (base plate in options for unfinished floor) Security Level Medium Emergency Mode Support (swing barrier open automatically)	Operating Temperature	-30 °C to 70 °C		
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Safety Features Voltage free contact input for fire alarm fail state automatic swing barrier open during power off Security Features Anti-tailgating, anti-pinch Product Delivery Pre-assembled Application Environment Indoor / outdoor (if sheltered) Site Preparation Site Preparation (base plate in options for unfinished floor) Security Level Medium Emergency Mode Support (swing barrier open automatically)	Ingress Protection Rating	IP56 (water & dust proof)		
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Product Delivery 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)	Safety Features			
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			
	·	Support (swing barrier open automatically)		
	Packing Material			

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

Application Scenarios









Scenic area Factory

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