

Saturn Plus Series

Enhanced Safety, Simplified Installation



 **ZKBio** CVAcess

 **ZKBio** CVSecurity

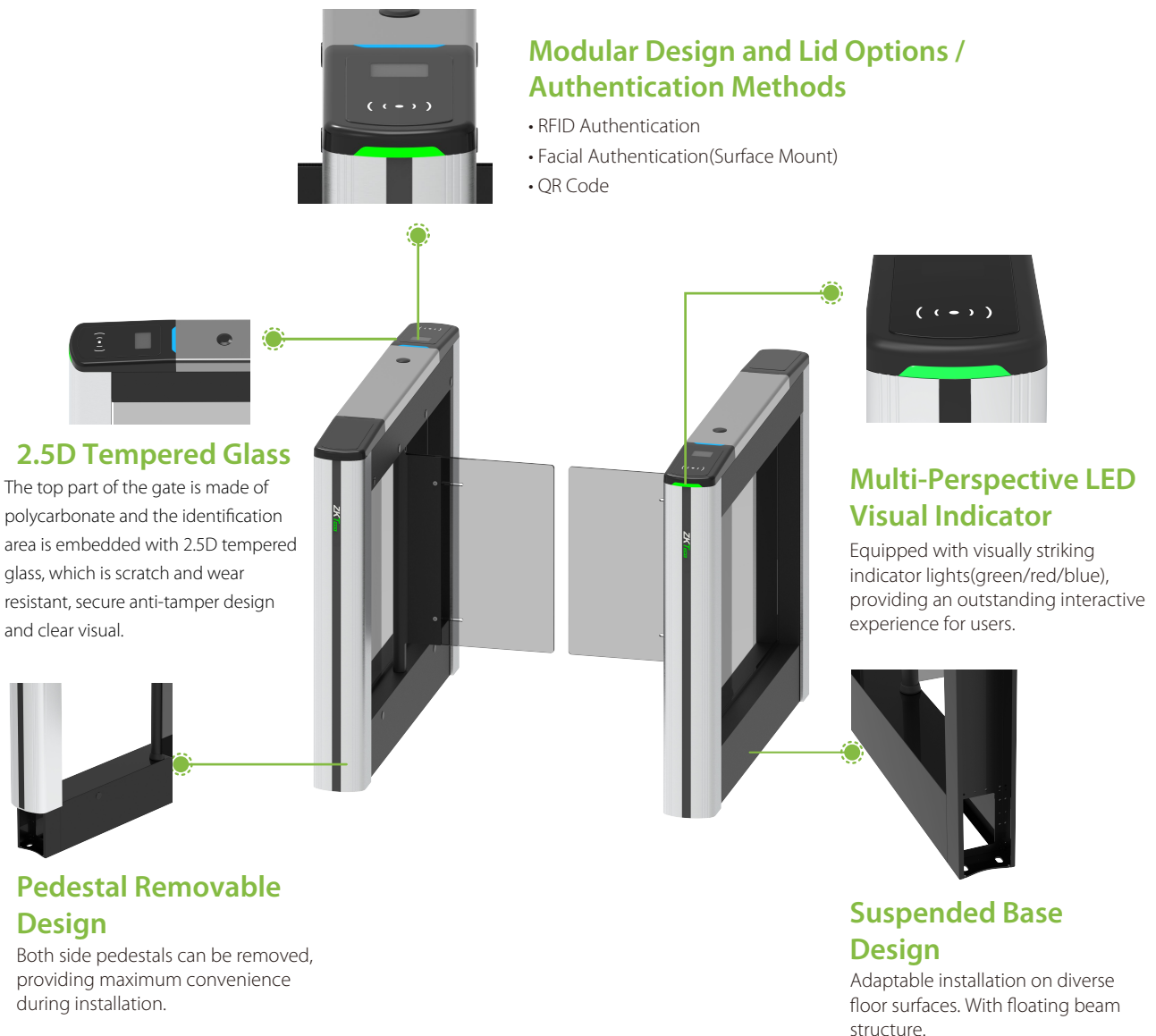


Introduction

Unveiling the ZKTeco Saturn Plus Series , an innovative swing barrier turnstile designed for an unparalleled passage experience. The Saturn Plus Series offers two models (S1000 Plus and S1200 Plus). Its chassis is made from cold-rolled steel SPCC (GB700), providing an IPX4 protection rating that ensures it can withstand water and dust.

The Saturn Plus Series has been upgraded with a notable feature: the addition of six pairs of infrared sensors for dual 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 Plus Series maintains its multi-authentication flexibility as before, with facial, QR code and RFID card verification. Additionally, the pedestal removal design makes it easier to installation.



Durability

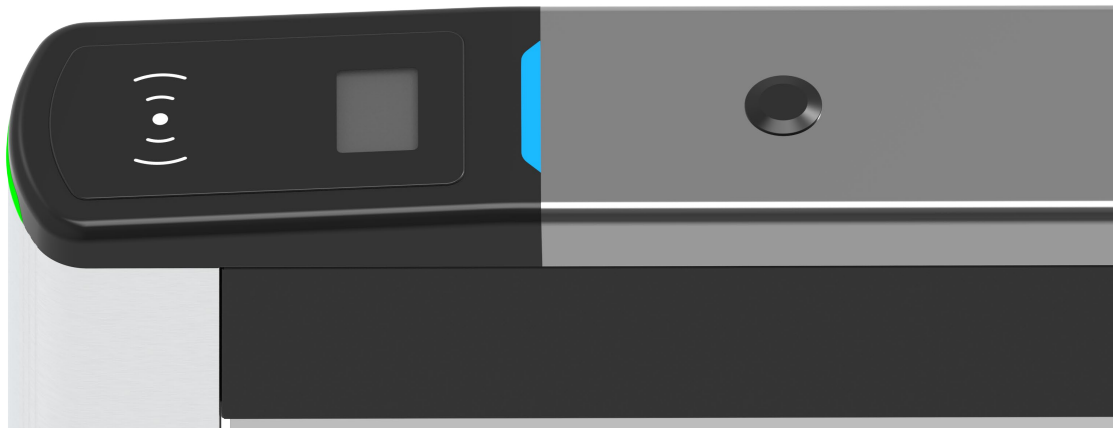
The lid is made using an integrated molding process, achieves an IPX4 protection rating, offering robust defense against water and dust.

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 electrostatic spraying, which ensures excellent adhesion and prevents paint from dripping. This treatment also aids in thermal regulation, preventing surface burns due to high temperatures. 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

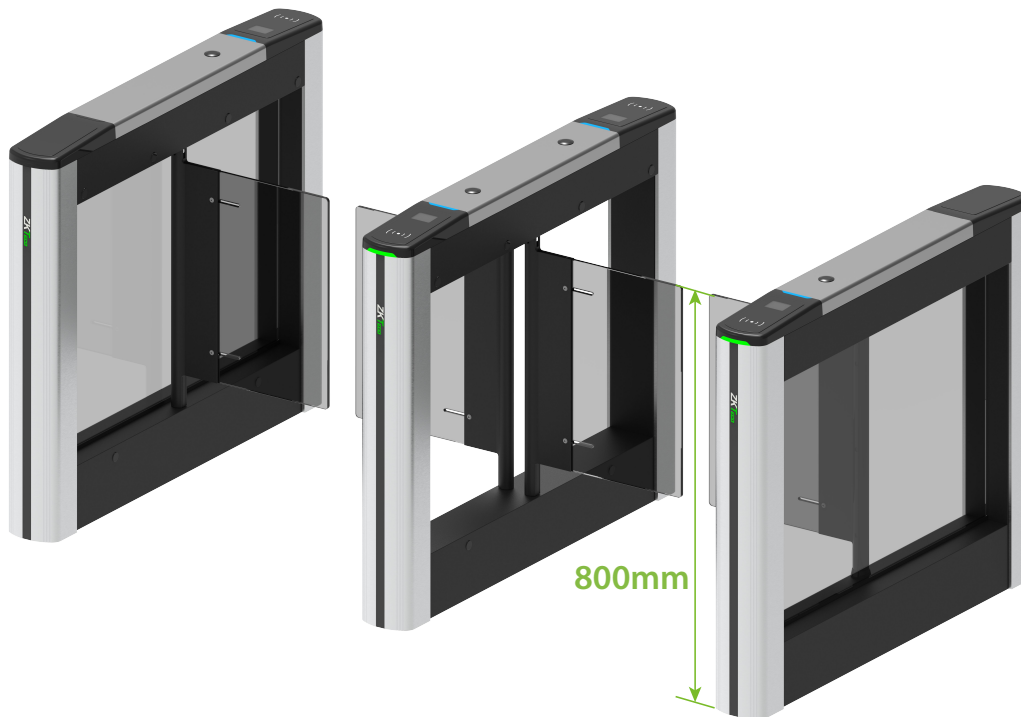
The Saturn Plus Series uses DC brushless motors, which are stable and reliable, and the movement life reaches 3 million MCBF.

The barrier material is made of acrylic and the default lane width is 600mm, an optional 900mm lane width is also available. The modular design offers greater convenience when it comes to replacement and maintenance, while also delivering cost savings.



Safety and Security

Safety features include a swing arm with the upper edge is more than 800mm from the ground and the lower edge is less than 200mm, allowing normal operation even when submerged in water up to 800mm , effectively preventing unauthorized crossings. Additionally, the Saturn Plus Series is fortified with 6 pairs of infrared sensors for double anti-crushing protection and a leakage protection switch to protect against electrical hazards.

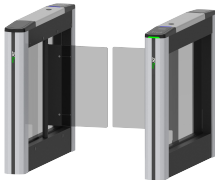
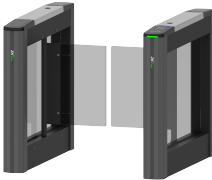
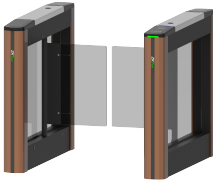
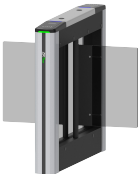
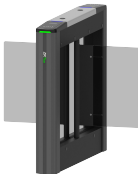
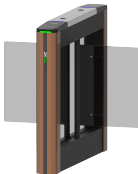


Specifications

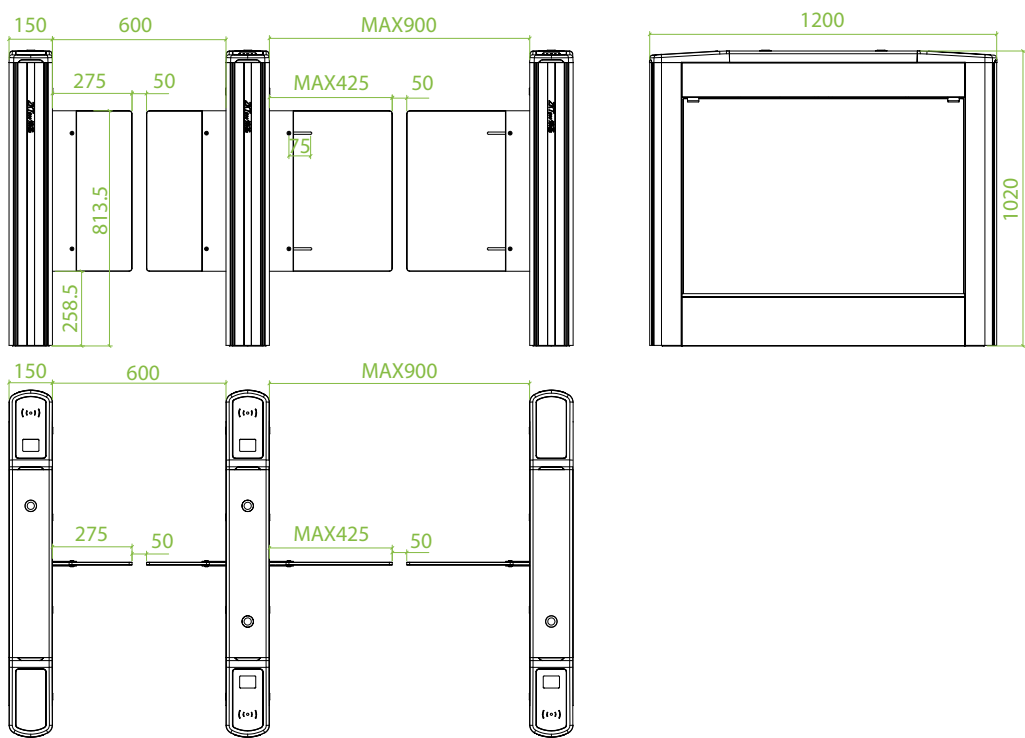
Model	Saturn-S1000 Plus	Saturn-S1200 Plus
Audio Indicator	Internal speaker	
Visual Indicator	Top LED indicator: Blue=Door closed/stand by Green=Door opening Red=Door closing/alarm	Side LED indicator Green=Lane available Red=Lane unavailable
Display	NA	
Lane Type	Single lane	Dual Swing (for additional lane)
Lane Width	600mm (Standard) Max 900mm (Optional)	
Barrier Movement Type	Swing	
Motor	DC brushless motor	
Movement Speed	Average 1s per movement (Adjustable open/close timing)	
Movement Accuracy	NA	
Clutch	NA	
Lid Material	Stainless steel & Polycarbonate	

Lid Options Authentication Methods	Streamlined under mount options: QR Code / RFID Surface mount option: Facial Authentication	
Chassis Material	Cold-rolled steel SPCC (GB700) (Chassis Body) / Aluminum Alloy (Gate Column)	
Chassis Colour	Sliver(standard), Gray(optional), Brown(optional)	
Barrier Material	Light gray transparent acrylic(635*300mm)(standard)/Tempered glass(635*300mm)(optional)	
IR Sensors	6 pairs	
Motherboard Function	System configuration, access control	
Motherboard Communication	Fire alarm port (relay)*1, RS485 port*1,	
Controller	Not equipped, allowing optional from C3/InBio Series or customization.	
Credential Options	Under mount RFID reader: (support model: Pro ID Series, KR Series) Under mount fingerprint reader: FR1200/FR1500S	
Flow Rate	Facial Authentication: 15 passengers per minute QR Code: 30 passengers per minute RFID: 35 passengers per minute	
Accessibility	Adult, children(with care), Disability(with care)	
Power Supply	110V / 220V ±10% AC @50Hz/60Hz	
Power Rating	10VA(Standby) 40VA(Operation)	
Fire Signal	Input for voltage free contact	
Noise Level	Less than 60dB	
MTTR	Less than 60 minutes	
MCBF	3 million	
Weight	50kg	30kg
Dimension (L*W*H)	1200 * 150 * 1020 mm	
Dimensions With Packing(L*W*H)	Carton(standard): 1265*220*1070 mm(2 boxes) Wooden box(optional): 1300*480*1224mm(1 box)	Carton(standard): 1265*220*1070mm(1 box) Wooden box(optional): 1300*260*1224mm(1 box)
Operating Temperature	-30 °C to 70 °C	
Operating Humidity	5% to 90% RH (Non-condensing)	
Certifications	CE, FCC	
Ingress Protection Rating	IPX4	
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	Pre-assembled	
Application Environment	Indoor / outdoor (if sheltered)	
Site Preparation	Flat & level finished floor (base plate in options for unfinished floor)	
Security Level	Low	
Emergency Mode	Support (swing barrier open automatically)	
Packing Material	Carton(standard) / Wooden(optional)	

Color Options

	Sliver	Gray(optional)	Brown(optional)
Saturn-S1000 Plus			
Saturn-S1200 Plus			

Dimensions (mm)



Application Scenarios



Corporate Premise



Conference Venue



Hotel



Transport Terminal

