Mars-S100 Series
Compact swing barrier turnstile

Mars-S100 swing barrier turnstile series from ZKTeco is constructed from durable cold-rolled steel SPCC (GB700) with a powder coating, offering a contemporary design. The turnstile provides single lane or dual lane, and the lane which can be extended up to 900mm for for very high-traffic areas such as bus terminals, government institutions and stadiums.

Mars-S100 Series has installed four pairs of IR sensors for accurate people counting and to avoid collisions with the barrier. The barriers can be locked in a closed position, and an integrated clutch mechanism engages if the barrier is forced, protecting the turnstile from damage.

Additionally, this compact speed gate can integrate with access control system.

Upon a valid verification of user's credentials (Fingerprint / Face / Palm / RFID Card / QR code), the barriers automatically swing to the open position, allowing passage. Essential safety functions include automatic barrier opening in the event of power loss or a fire alarm signal activation, ensuring unimpeded egress in emergencies.

Features

Reliability

- The powder coating provides a protective finish that helps to prevent the cabinet from rusting.
- Adopt a high-quality DC brushless motor which extends the operation lifespan.

Safety

• Automatically door open during emergency.

• Built-in clutch kit to prevent unauthorized users from forcibly opening the barrier.

• Comprises 4 pairs of infrared sensors that detect the pedestrians status.

• (Optional) Support Multiple Biometric Authentications, including facial recognition/ fingerprint/ Palm/ QR Code/ RFID card verification for controlled access.
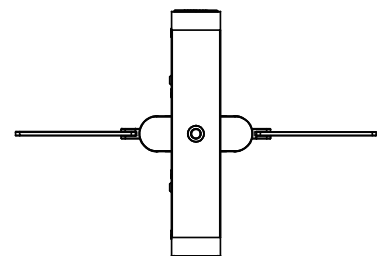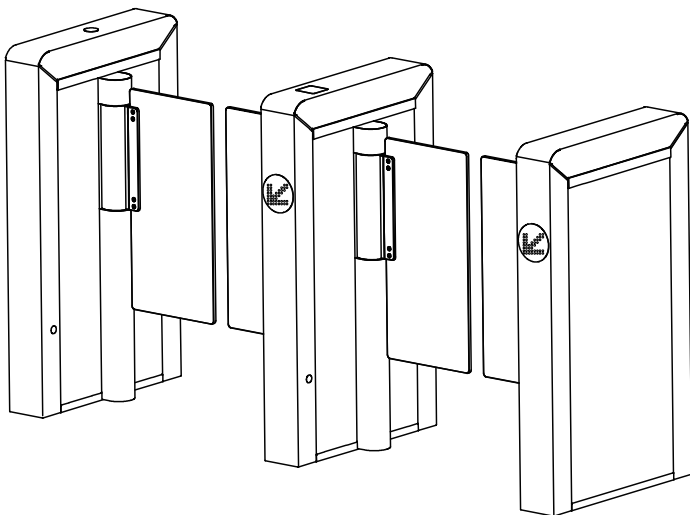
An Ergonomic Design

• Streamlined installation and maintenance.

• Compact design with versatility.

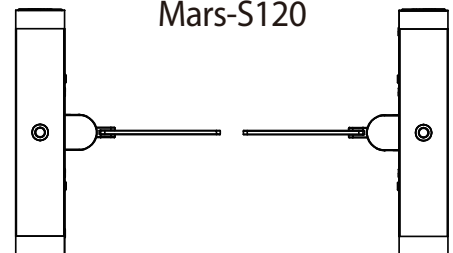--

Specifications

Model	Mars-S100	Mars-S120
Visual Indicator	Steady green = normal use Steady red= door closed	
Audio Indicator	Internal buzzer	
Lane Type	Single lane	Dual Lane (Consists of 2 single-core swing barrier turnstile and 1dual-core swing barrier turnstile)
Lane Width	660mm (optional: 900mm)	
Barrier Movement Type	Swing	
Motor	DC brushless motor	
Movement Speed	0.8s per movement (open/close timing)	
Movement Accuracy	± 2 Degrees	
Clutch	Mechanical clutch for anti-panic/anti-collision	
Lid Material	Cold-rolled steel SPCC (GB700) (optional: SUS304 stainless steel)	
Lid Options Authentication Methods	Streamlined under mount options: Fingerprint / RFID / Palm Recognition / QR Code Surface mount options: Facial Recognition	
Chassis Material	Cold-rolled steel SPCC (GB700) (optional: SUS304 stainless steel)(T=1.2mm)	
Chassis Color	White (standard)/silver-gray (optional)	
Barrier Material	Acrylic, 295x630mm (standard) / Acrylic, 425x630mm (optional)	
IR Sensors	4 Pairs (standard) (high&low position)	
Motherboard Function	System configuration, access mode configuration, anti-pinch configuration, etc.	
Motherboard Communication	Fire alarm port (relay)*1, RS485 port *1	
Controller	C3-200&InBio260 Pro (recommended) other depends on dimensions fitting in (optional)	
Credential Options	Under mount RFID reader: (support model: ProID Series, KR Series) Under mount fingerprint reader: FR1200/FR1500 Facial Recognition: Proface X, G4 Pro Palm: Omni AC30	
Flow Rate	QR Code/RFID: 30 passengers per minute Fingerprint/Palm: 20 passengers per minute	QR Code/RFID: 30 passengers per minute Fingerprint/Palm: 20 passengers per minute
	Face: 15 passengers per minute	Face: 15 passengers per minute

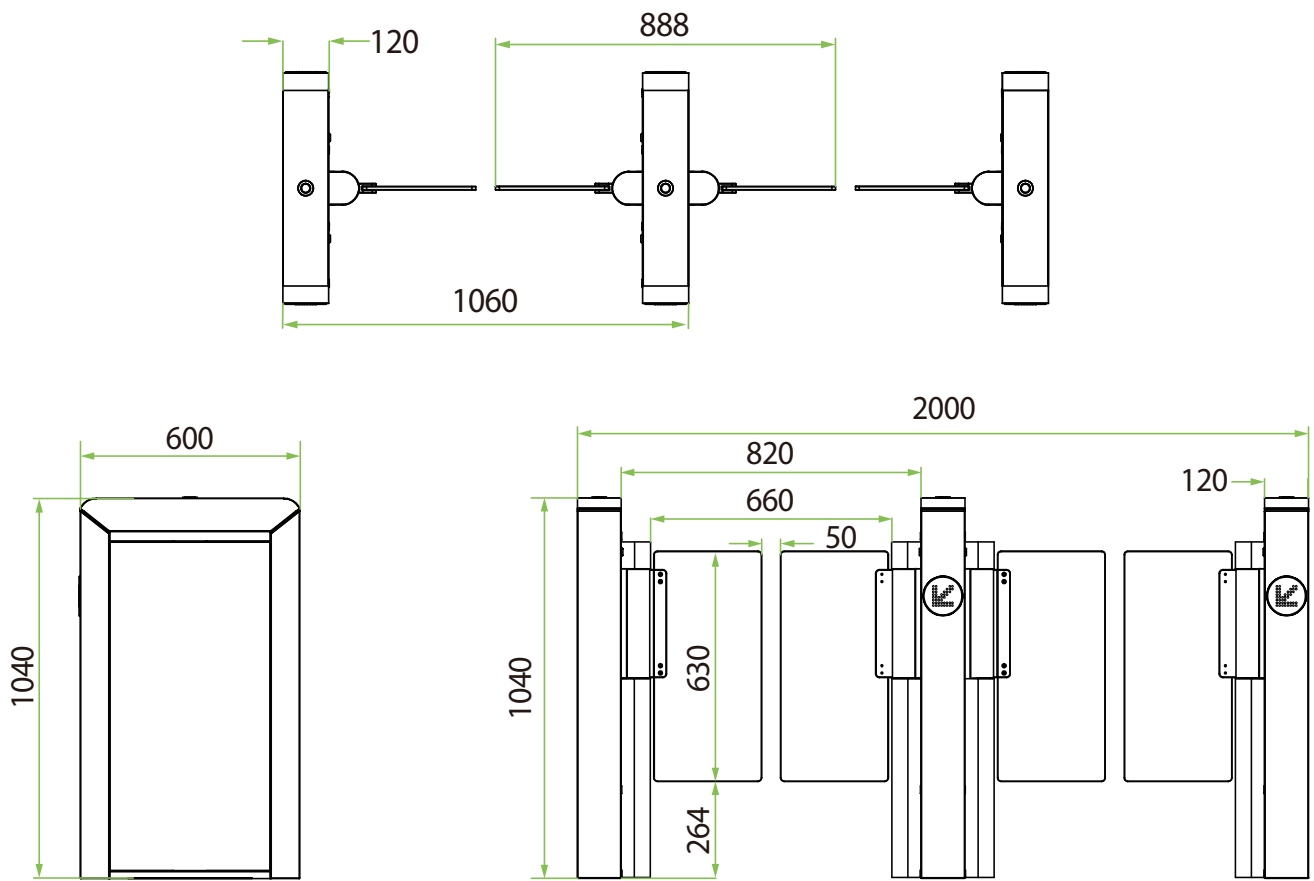|	
Barrier Width	660mm (standard for single pedestrian access) 900mm (optional for trolley or pedestrian with luggage access)
Power Supply	110V / 220V AC@50 to 60 Hz, DC 24V
Power Rating	22VA (Standby) 50VA (Operation)
Fire Signal	Input for voltage free contact
Noise Level	Less than 60dB
MTTR	Less than 60 minutes
MCBF	5 million
Weight	Gross weight 32kg (±5kg) (2boxes) Gross weight 40kg (±5kg) (1boxes) Net weight 25kg (±5kg) (2boxes) Net weight 30kg (±5kg) (1boxes)
Dimension	600*120*1040mm(L*W*H)
Operating Temperature	-20℃ to 70℃
Operating Humidity	0% to 85% RH (Non-condensing)
Certifications	CE, FCC, ISO9001
Supported Software	ZKBio CVAccess/ZKBio CVSecurity (depends on equipped access controller)
Safety Features	Voltage free contact input for fire alarm fail state automatic barrier open during power off
Security Features	Infrared Anti-Clamping, Mechanical Anti-Clamping, Power-Off Fail-Safe, Emergency Escape Function
Product Delivery	Pre-assembled
Application Environment	Indoor
Site Preparation	Flat&level fnished floor (base plate in options for unfinished floor)
Dimensions With Packing	762*362*1215mm (L*W*H) (2 boxes) 762*362*1215mm (L*W*H) (1 box)
Security Level	Low
Emergency Mode	Support (barrier open automatically)
Packing Material	Wooden (standard)

Dimensions (mm)

Mars-S120

Mars-S100

Optional Color Available: Silver- Gray