

MARS-S100 Series

Compact optical turnstile



OVERVIEW

The MARS-S100 Series is a compact optical swing gate turnstile designed to provide secure, controlled pedestrian access in locations where space is limited. Its slim footprint, modern appearance, and reliable operation make it an excellent solution for offices, schools, fitness centers, museums, government facilities, and commercial buildings.

The MARS-S100 is a standalone lane designed for single-lane installations, while the MARS-S120 expansion lane is used to create multi-lane configurations.

Why choose the Mars-S100?

- Compact footprint
- Modern optical barrier design
- Up to 30 people per minute
- Brushless DC motor
- RFID & biometric compatible
- Emergency free-egress
- Indoor or sheltered outdoor installation
- ADA lane option available



DESIGN

The MARS-S100 combines a compact cabinet with a clean, contemporary design that complements modern building entrances. Constructed from welded steel with a durable finish, the cabinet is designed for years of dependable service in high-traffic environments.

Clear acrylic barriers provide smooth, quiet operation while maintaining an open and welcoming appearance.



PERFORMANCE

Designed for fast, secure pedestrian flow, the MARS-S100 helps prevent unauthorized entry and wrong-way passage. Integrated infrared sensors monitor each passage to ensure safe operation and accurate access control.

The turnstile integrates easily with most third-party access control systems, making it suitable for new installations or upgrades to existing entrances.



QUALITY

Every MARS-S100 Series turnstile is manufactured using high-quality components for long-term reliability. The welded steel cabinet, brushless DC motor, and durable electronic components are designed for continuous operation in demanding commercial environments.

The MARS-S100 Series complies with CE, FCC, UKCA, and RoHS standards.



KEY FEATURES

Compact, Modern Design

Slim cabinet design maximizes usable entrance space while maintaining an attractive, modern appearance.

Single or Multi-Lane Configurations

Available as the standalone MARS-S100 or MARS-S120 expansion lane for multi-lane installations.

Access Control Integration

Supports RFID card readers, facial recognition terminals, fingerprint readers, QR code scanners, NFC/mobile credentials, and other access control devices through standard integration interfaces.

High Throughput

Processes up to 30 people/minute (application dependent).

Advanced Safety Protection

Infrared detection and anti-pinch technology help protect pedestrians while ensuring smooth passage.

Unauthorized Entry Detection

Detects unauthorized entry, wrong-way passage, and tailgating attempts with audible and visual alarms.

Emergency Free Egress

Swing barriers automatically open during power loss or fire alarm activation to provide safe emergency exit.

Quiet, Reliable Operation

Brushless DC motor provides smooth, quiet operation with an MCBF of up to 5 million cycles.

Durable Construction

Cabinet crafted in stainless or cold-rolled steel with a durable powder-coated finish for long service life in demanding commercial environments.

Flexible Operating Modes

Supports bidirectional control, free exit, normally open/normally closed operation, passage memory, and configurable access modes.

Indoor or Sheltered Outdoor Installation

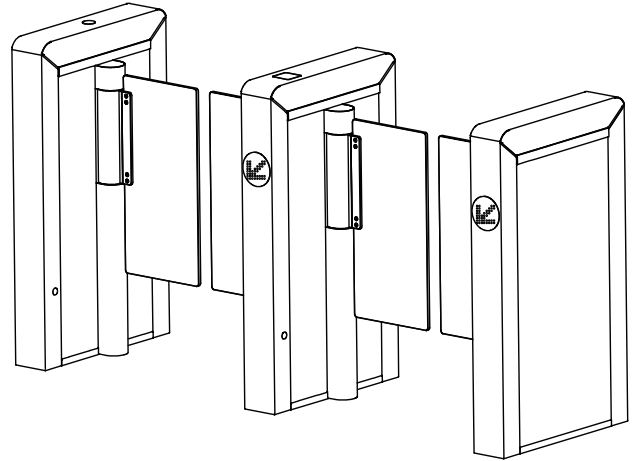
Designed for indoor use or outdoor installations protected from direct weather exposure.

SPECIFICATIONS

MODEL	MARS-S100	MARS-S120
Power Requirements	AC 100 ~ 120V/200 ~ 240V, 50/60Hz	
Working Temperature	-20°C~60°C/-4°F~140°F	
Working Humidity	5% ~ 95%	
Working Power	50W running/ 22W stand by	
Working Environment	Indoor/Outdoor (if shelter available)	
Throughput Rate	≤30 people/min ¹	
Lane Width	660mm(option≤900mm)/26in(option≤35in)	
Noise	<60dB	
Infrared Sensor	4 pairs	
Barrier Movement	Swing	
MCBF	≤5 million	
Drive Unit	DC brush-less motor	
LED Indicator	Red/green color	
Emergency Mode	Door open automatically ²	
Chassis Dimensions (L*W*H)	600*120*1040mm/23.6*4.7*40.9in	
Dimensions with Packaging (L*W*H)	762*730*1215mm/ 30*28.7*47.8in	762*362*1215mm/30*14.3*47.8in
Net Weight	50kg/110lbs	30kg/66lbs
Gross Weight	64kg/141lbs	40kg/88lbs
Cabinet Material	Cabinet: Cold Rolled Steel (Powder Coated) or Optional Stainless Steel Finish	
Lid Material	Cold rolled steel or stainless	
Color Number	Matte white RAL9003 (optional:matte black RAL9005, stainless steel color)	
Barrier Material	Acrylic	
Packing Material	Wooden case	

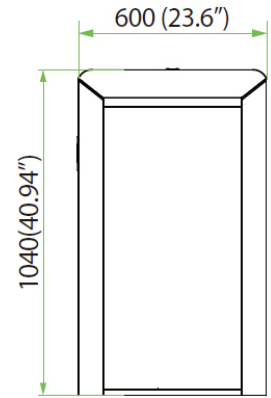
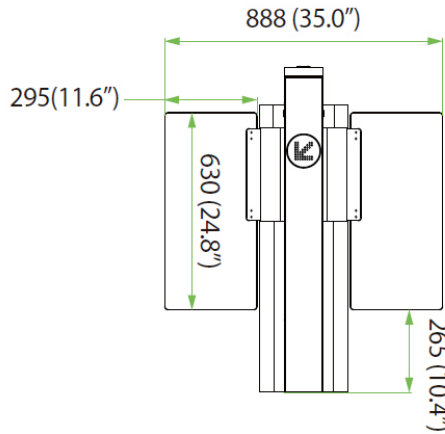
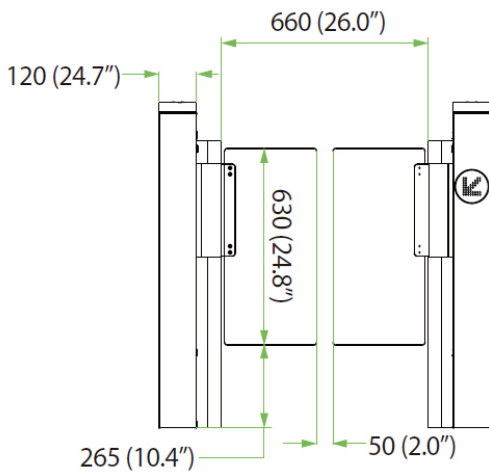
1: Depends on user situation on filed, using RFID faster than fingerprint.

2: Power off or fire signal activated on board, the door will open automatically.

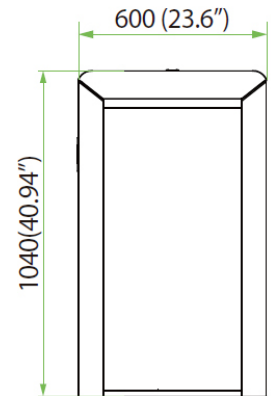
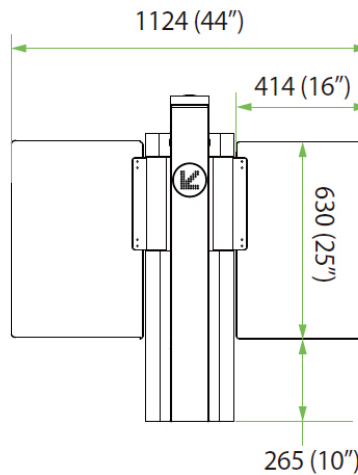
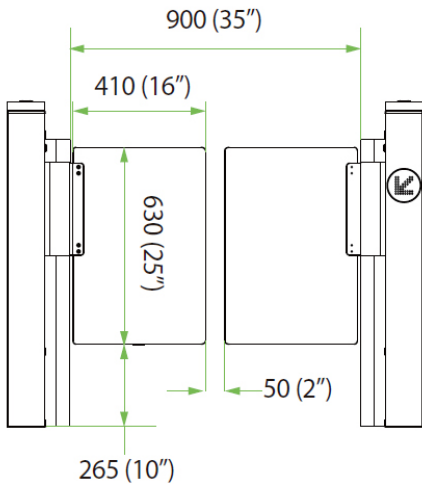


DIMENSIONS(MM/IN)

STANDARD BARRIERS



WIDE BARRIERS



COLOR OPTIONS



Matte Black

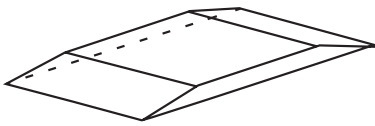


Stainless Steel

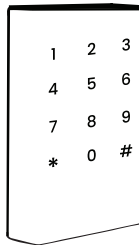


Matte White

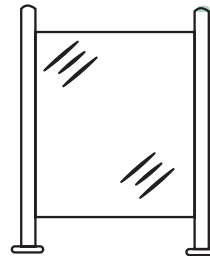
ACCESSORIES



BASE PLATE



READER



HAND RAIL

APPLICATION



SCHOOL



MUSEUM



FACTORY



GYM