

B I O M E T R I C S & C O M P U T E R V I S I O N

ZKT*ECO*

ZKTeco's Turnstiles

Mars Series & Mars Pro Series



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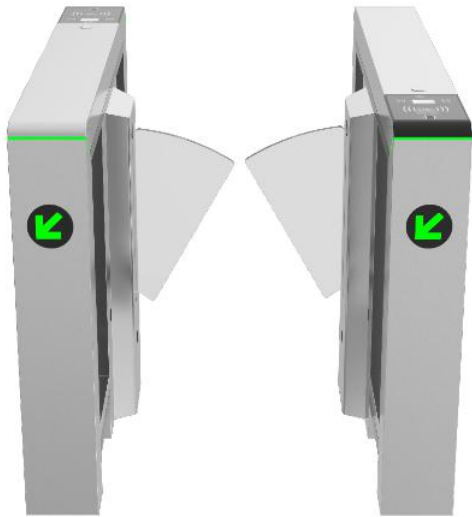
Introduction

- Mars Series:
 - B1000 Series, F1000 Series, S1000 Series
- Mars Pro Series:
 - F1000 Series, S1000 Series

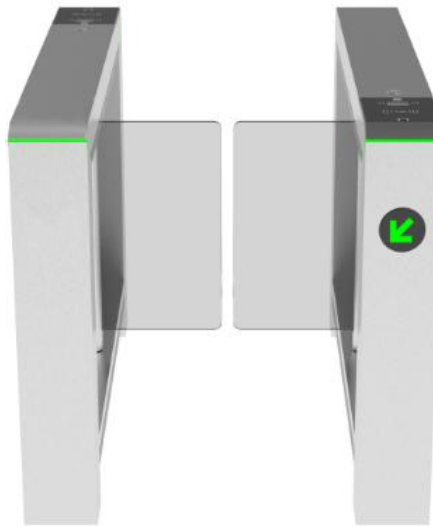
Mars Series of Turnstiles

Standard Version

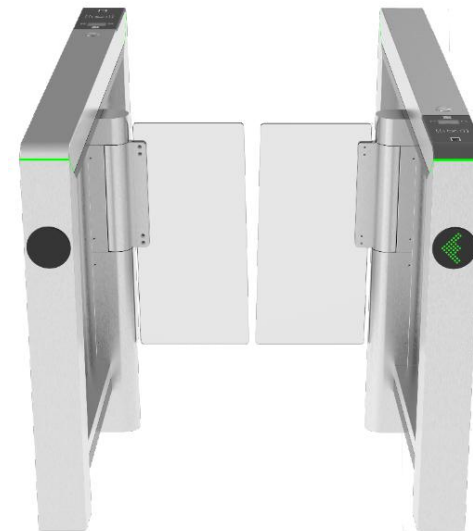
The standard version is made of stainless steel.



Mars-F1000 Series



Mars-B1000 Series



Mars-S1000 Series

Mars Pro Series of Turnstiles

Premium Version

The premium version is made of SPCC material with white color powder coating.



Mars Pro-F1000 Series



Mars Pro-S1000 Series

Positioning

Model Name	Description	Positioning
Mars-F1000	Single-lane, with master and slave devices.	Low-end
Mars-F1200	Dual-lane, an additional barrier turnstile to form multiple lanes.	Low-end
Mars-B1000	Single-lane, with master and slave devices.	Low-end
Mars-B1200	Dual-lane, an additional barrier turnstile to form multiple lanes.	Low-end
Mars-S1000	Single-lane, with master and slave devices.	Low-end
Mars-S1200	Dual-lane, an additional barrier turnstile to form multiple lanes.	Low-end
Mars Pro-F1000	Single-lane, with master and slave devices.	High-end
Mars Pro-F1200	Dual-lane, an additional barrier turnstile to form multiple lanes.	High-end
Mars Pro-S1000	Single-lane, with master and slave devices.	High-end
Mars Pro-S1200	Dual-lane, an additional barrier turnstile to form multiple lanes.	High-end

Naming Rules

Model Name	Description
Mars-F1 <u>000</u>	A single-lane flap barrier without readers and access controllers.
Mars-F10 <u>11</u>	A single-lane flap barrier with 2 RFID readers and 1 PGIC controller.
Mars-F10 <u>22</u>	A single-lane flap barrier with RFID and FP readers, plus 1 PGIC access controller.
Mars-F12 <u>00</u>	A dual-lane flap barrier without readers and access controllers.
Mars-F12 <u>11</u>	A dual-lane flap barrier with 2 RFID readers and 1 PGIC controller.
Mars-F12 <u>22</u>	A dual-lane flap barrier with RFID and FP readers, plus 1 PGIC access controller.

02

Modularized Design

- Sandwich Structure
- Authentication Panel
- Reserved a Place for Facial Recognition, Temperature and Mask Detection Terminals
- Infrared Sensor Extension

Modularized Design

Highly Durable and Low Maintenance Costs

- Modularized structure design
- Exposed mounting holes for easy installation
- Mainly made of SPCC (option: SUS316 stainless steel)

PGIC Controller

- Equipped with a PGIC controller
- Access control
- General features and parameters settings on the controller's menu

LED Indicator

- Visual cues for correct walking direction
- Clear guidance with green and red illustration

Switchable Reader Panel

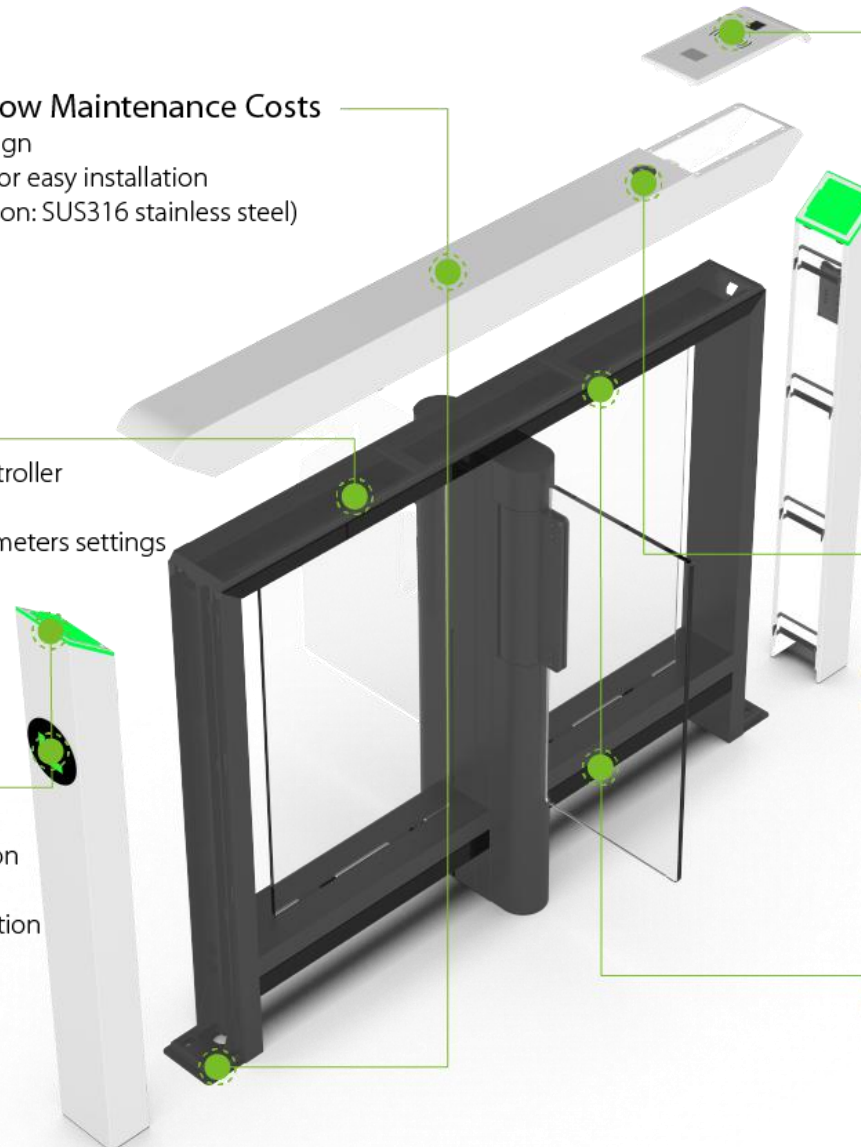
- Four panels available:
 - RFID only
 - RFID & Fingerprint
 - RFID & QR Code
 - RFID & Fingerprint & QR Code
- Reducing middlemen's inventory pressure
- Reducing installation time & expenses

Installation Place for Facial Recognition A&C Terminals

- Diameter: 34mm
- Integration with Facial Recognition, Temperature and Mask Detection Terminals

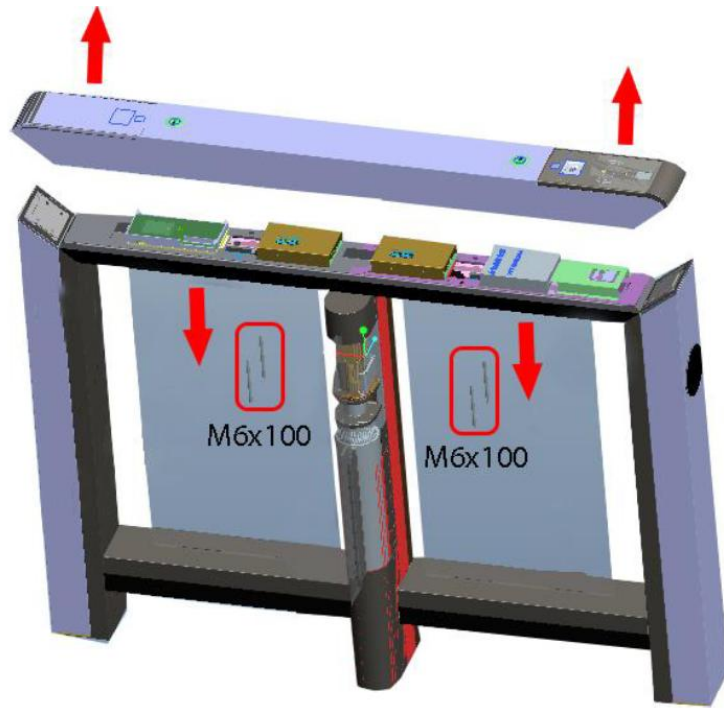
Infrared Sensors

- 20 pairs of infrared sensors for stronger tailgating detection

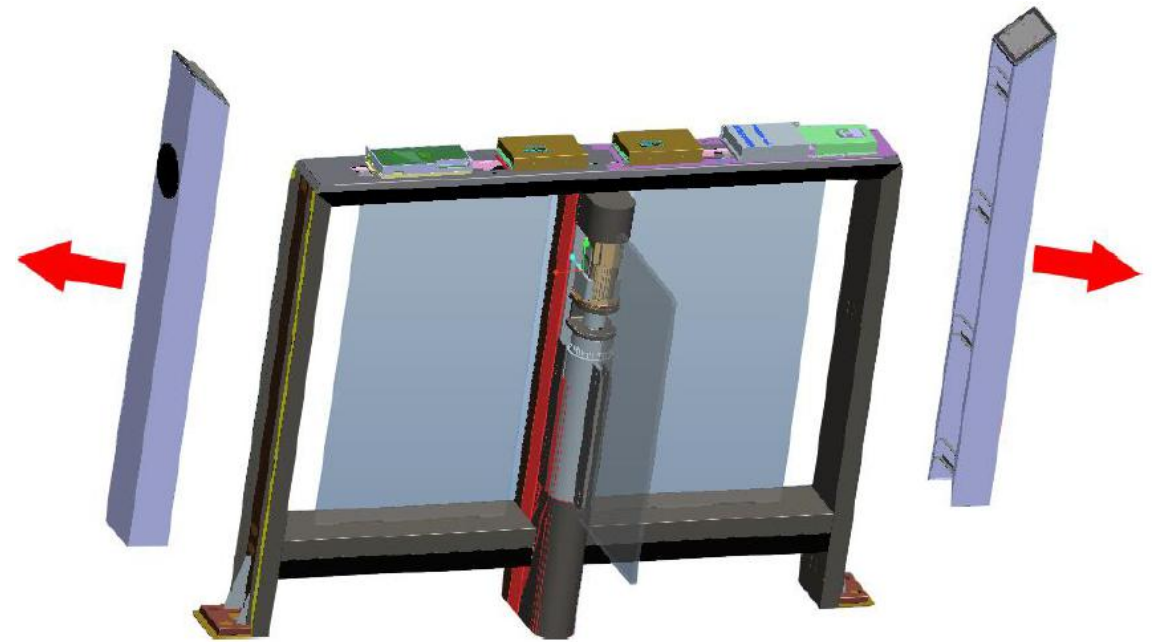


Modularized Design Sandwich Structure

Note: The Mars Series consists of the main base (dark grey) and the outside cover (light purple).
If you want to access the interior of the turnstile, please refer to the below.



Step 1



Step 2

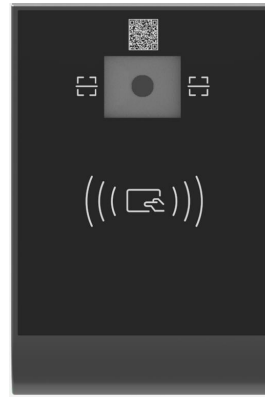
Modularized Design Authentication Panels

Biometric Technology

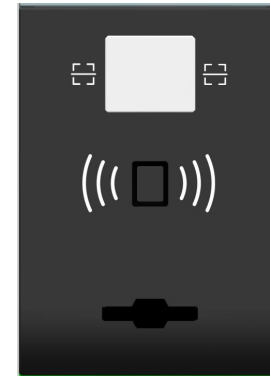
Up to 6 types of biometric authentication panels are available.



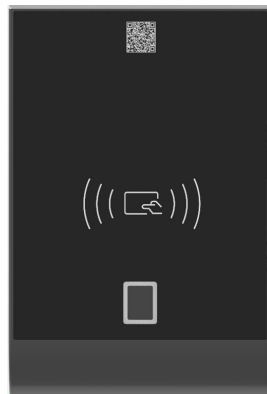
RFID only



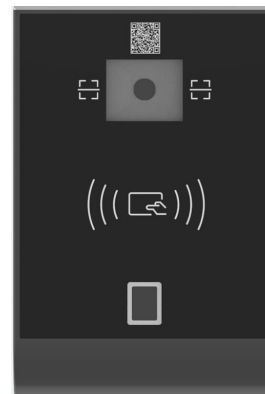
RFID & QR Code



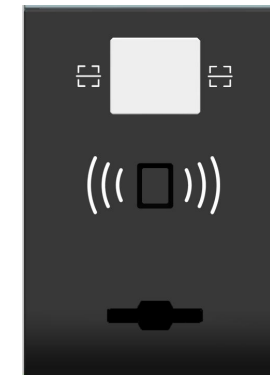
RFID & Card Slot



RFID &
Fingerprint



RFID & Fingerprint
& QR Code

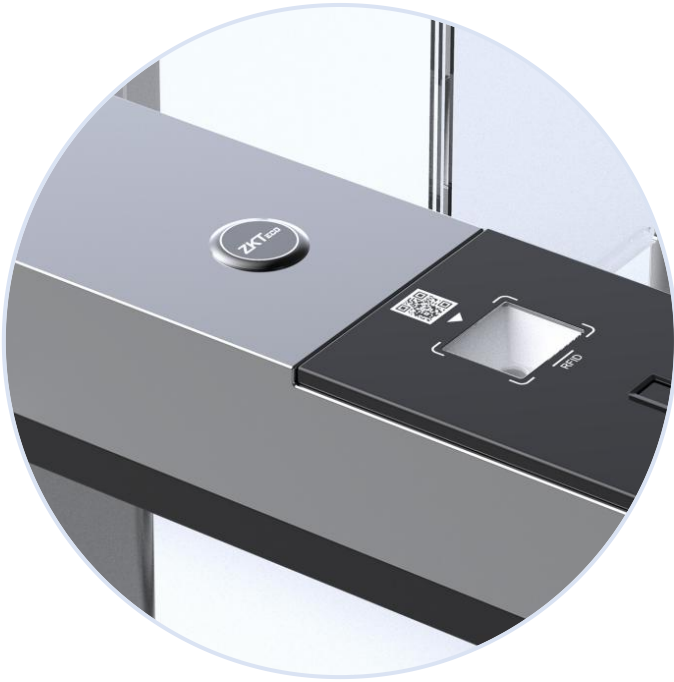


RFID & Card Slot
& QR Code

Modularized Design

Reserved a Hole

to Install a Comprehensive A&C Terminal



Reserved a hole with a diameter of 34mm and used a plastic cover to entirely cover this hole.

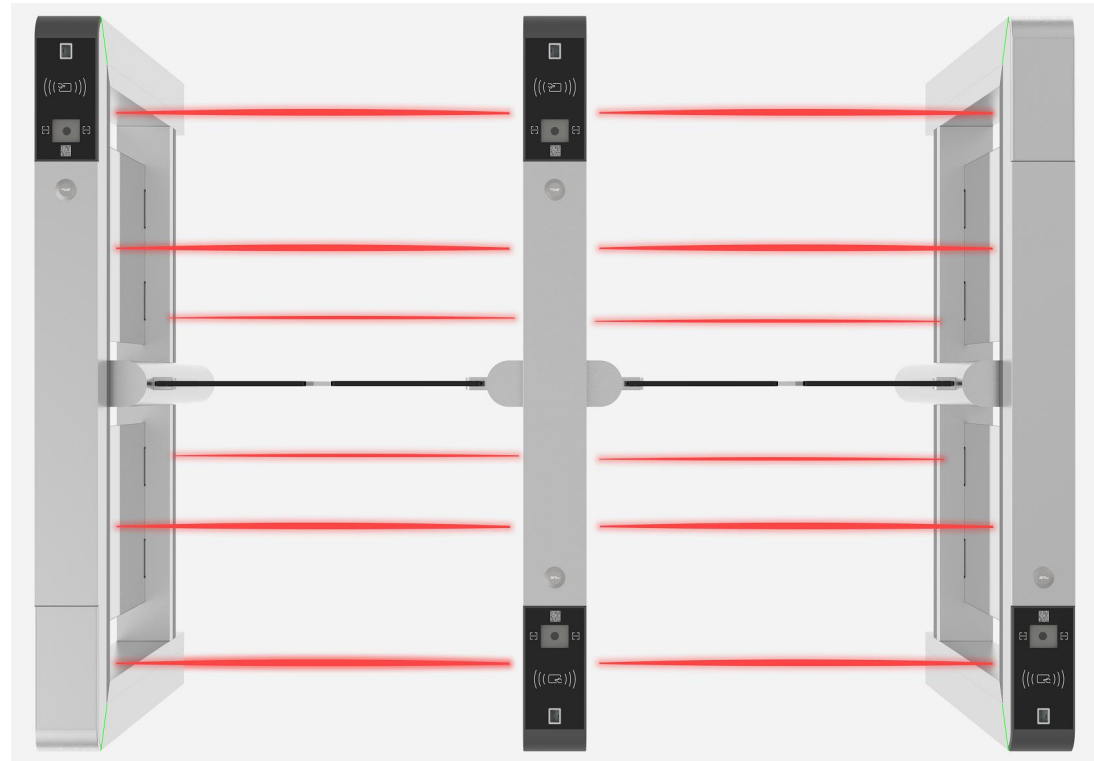


Clients could mount a facial recognition terminal with mask and temperature detection on the turnstile.

Modularized Design

Infrared Sensor Extension

The Series supports a maximum of 22 pairs of IR sensors, offering more accurate judgment and better anti-tailgating and anti-collision performance.



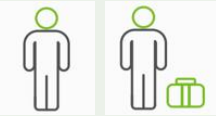
03

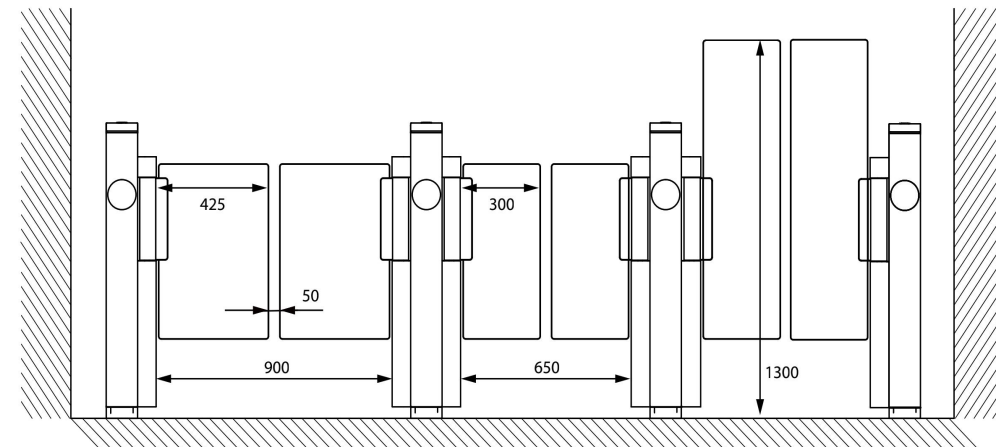
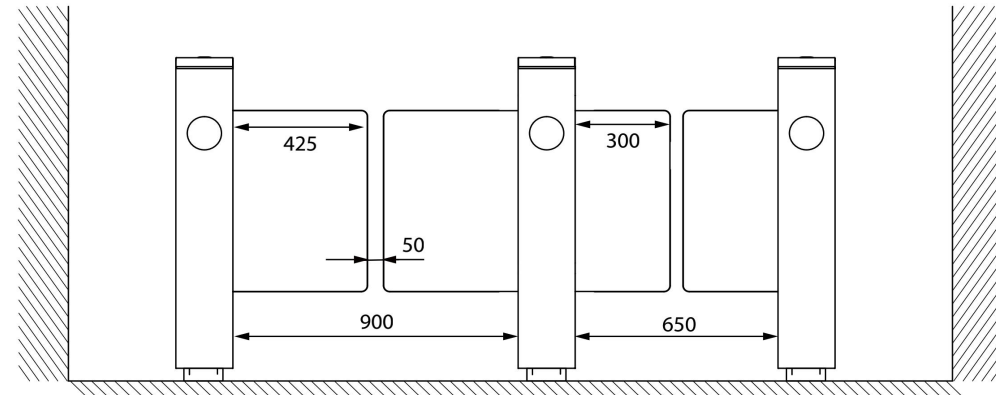
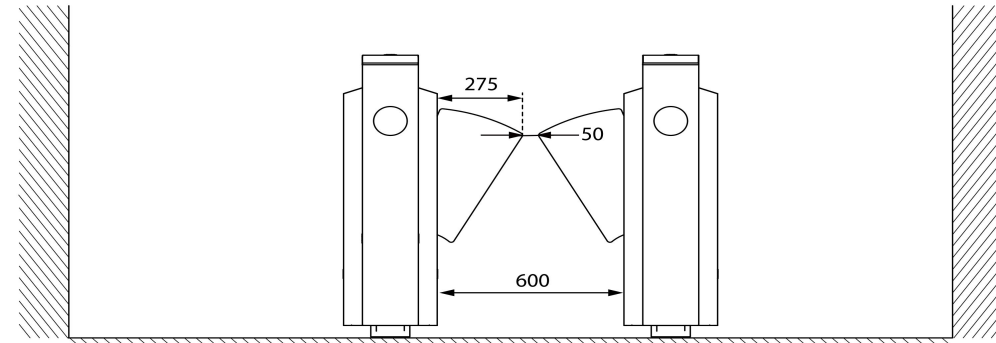
Installation

- Lane Width
- Base Plate

Installation Lane Width

Clients could choose the lane width as desired.

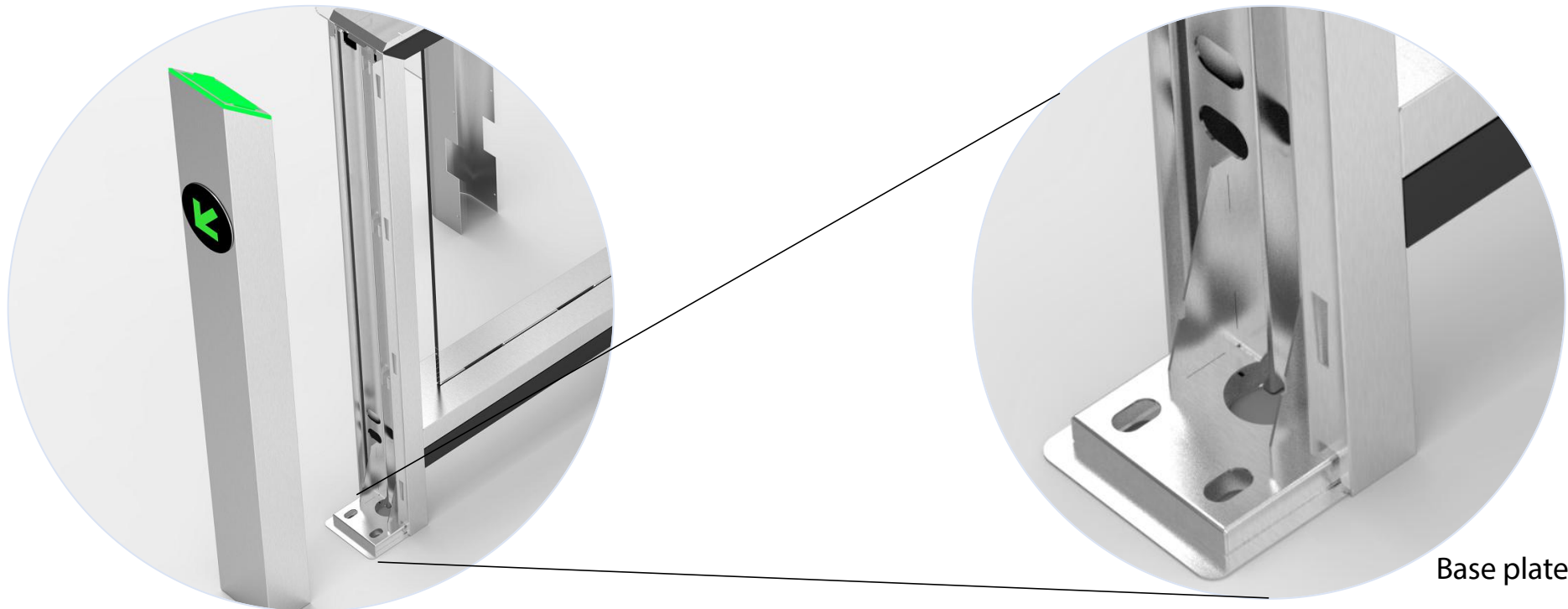
Model Name	Mars (Pro)-F1000 Series	Mars (Pro)-B1000 Series	Mars (Pro)-S1000 Series
Lane Width or Height	W: 600mm H: N/A	W: 650 to 900mm H: N/A	W: 650 to 900mm H: 1300 to 1600mm
Applications		   	



Installation Base plate

It is easy to fix or uninstall the turnstile on the site with a base plate provided.

For details, please refer to the Installation Guide.



Base plate of one side

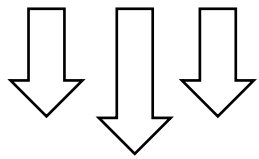
Installation

Key Specifications

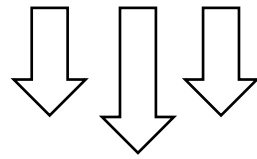
Model Name	MCBF	Dimensions (mm)	Barrier Material	Emergency Mode	Working Environment	IR Sensor (QTY)
Mars-F1000 Series	3M	1360*180*1010	Acrylic	Y	Indoor	5 pairs
Mars-B1000 Series	5M	1360*180*1010	Acrylic	Y	Indoor	6 pairs
Mars-S1000 Series	5M	1355*120*1020	Acrylic	Y	Indoor	8 pairs
Mars Pro-F1000 Series	10M	1360*180*1010	Acrylic	Y	Indoor	16 pairs
Mars Pro-S1000 Series	10M	1355*120*1020	Acrylic	Y	Indoor	20 pairs

Installation Key Features

COST Delivery



Modularization: Prices are more competitive, and products could be shipped and delivered more quickly



Easy installation

Only removing 4 pcs screw, you can access all the interior components.

Flexibility



Access reader panels *reduces middlemen's or users' inventory pressure and installation time & expenses*

Reliability

MCBF of the standard version device is proven to be over 2M, while what of the premium version is proven to be up to 10M. The Series supports 5-year warranty.

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Market Positioning Analysis

- Comparison with ZKTeco's Similar Products
- Comparison with Competitors' Similar Products

Comparison within ZKTeco



Model Name (new ver.)	Model name (old ver.)	Comparison Results
Mars-F1000 Series 1. Brushless motor driver 2. Full modularization 3. More competitive pricing	FBL6000 Pro 1. DC Brush motor 2. Partial modularization 3. Higher costs	Mars-F1000 Series • Using brushless motor which has longer life cycle • Full modularization design is easy for maintenance • More competitive pricing
Mars-B1000 Series 1. Brushless motor driver 2. Full modularization 3. More competitive pricing	SBTL5000/6000 1. DC Brush motor 2. Partial modularization 3. Higher costs	Mars-B1000 Series • Using brushless motor which has longer life cycle • Full modularization design is easy for maintenance • More competitive pricing
Mars-S1000 Series 1. Brushless motor driver 2. Full modularization 3. SUS304 material 4. 8 pairs of IR sensors	SBTL7000 1. Brushless motor driver 2. Full modularization 3. SPCC with powder coating 4. 6 pairs of IR sensors	Mars-S1000 Series • SUS304 material is more durable • 2 more pairs of IR sensors
Mars Pro-F1000 Series 1. Brushless motor driver, 10M MCBF 2. Full modularization 3. More competitive pricing	FBL5000 Pro 1. DC Brush motor driver 2. Full modularization 3. More competitive pricing	Mars Pro-S1000 Series • 10M of MCBF, 5-year warranty • Full modularization design is easy for maintenance • Powder coating with white color
Mars Pro-S1000 Series 1. Servo motor driver, 5 years of warranty 2. Full modularization 3. SPCC material with powder coating	SBTL8000 1. Servo motor driver 2. Partial modularization 3. SUS304 cabinet material	Mars Pro-S1000 Series • 10M of MCBF, 5-year warranty • Full modularization design is easy for maintenance • Powder coating with white color

Comparison with Competitors’ Products



Type Brand	Flap barrier	Flap barrier	Swing barrier	Swing barrier	Swing barrier
ZKTeco	F1000 MCBF>3m, brushless motor, 5 pairs of IR sensors	Pro F1000 MCBF>10m, brushless motor, 8 pairs of IR sensors	B1000 MCBF>5m, brushless motor, 6 pairs of IR sensors	S1000 MCBF>5m, brushless motor, 8 pairs of IR sensors	Pro S1000 MCBF>10m, Servo motor, 12 pairs of IR sensors
A	1 MCBF>5m, brushless motor, 5 pairs of IR sensors		2 MCBF>5m, brushless motor. 4 pairs of IR sensors		3 MCBF>5m, brushless motor, 10 pairs of IR sensor
B	1 MCBF>3m, brushless motor			2 MCBF>3m, brushless motor	
C		1 MCBF>6M, Servo motor, 12 pairs of IR sensors	2 MCBF>6M, Servo motor, 12 pair of IR sensors	3 MCBF>6M, Servo motor, 12 pairs of IR sensors	4 MCBF>6M, Servo motor, 24 pairs of IR sensors
D			1 MCBF>5M, Servo motor, 12 pairs of IR sensors	2 MCBF>5M, Servo motor, 12 pairs of IR sensors	3 MCBF>5M, Servo motor, 20 pairs of IR sensors
E		1 MCBF>15M, brushless motor, 13 pairs of IR sensors			2 MCBF>15M, brushless motor, 8 pairs of IR sensors

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Applications

- Sports Halls
- Elevator Lobbies
- Offices

Applications Sport Halls

Device recommended: Mars-B1000 Series

- Obvious indicator guidance
- Anti-collision for core mechanism
- Wide lane width of 900mm
- IR sensors that detect abnormal situation and trigger alarm



Applications

Elevator Entrances

Device recommended: Mars-S1000 Series

- Obvious indicator guidance
- Faster opening/closing speed
- Wide lane width of 900mm
- Different multi-biometric identification reader panels available



Applications Office Areas

Device recommended: Mars-F1000 Series

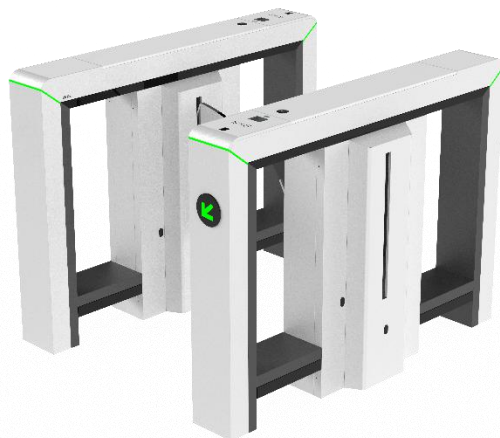
- Obvious indicator guidance
- Faster opening/closing speed
- Automatic opening during emergency
- Different multi-biometric identification reader panels available



Applications Stations

Device recommended: Mars Pro-F1000 Series

- Obvious indicator guidance
- Faster opening/closing speed
- Automatic opening during emergency
- Different multi-biometric identification reader panels available
- MCBF up to 10 millions



Applications Exhibition Centers

Device recommended: Mars Pro-S1000 Series

- Obvious indicator guidance
- Faster opening/closing speed
- Wide lane width of 900mm
- Different multi-biometric identification reader panels available
- MCBF up to 10 millions



THANK YOU!

