SERVO MOTOR TURNSTILE GATE

Manual

2M® TECHNOLOGY

REV10082020

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Swing Turnstile Gate Description and Specifications

Features:

1. The intelligent flap gate is an upgraded version of the intelligent tripod turnstile gate and swing gate. The intelligent flap gate is a high-tech product for intelligent management of personnel channels. The product has better processing, added functions and higher efficiency.

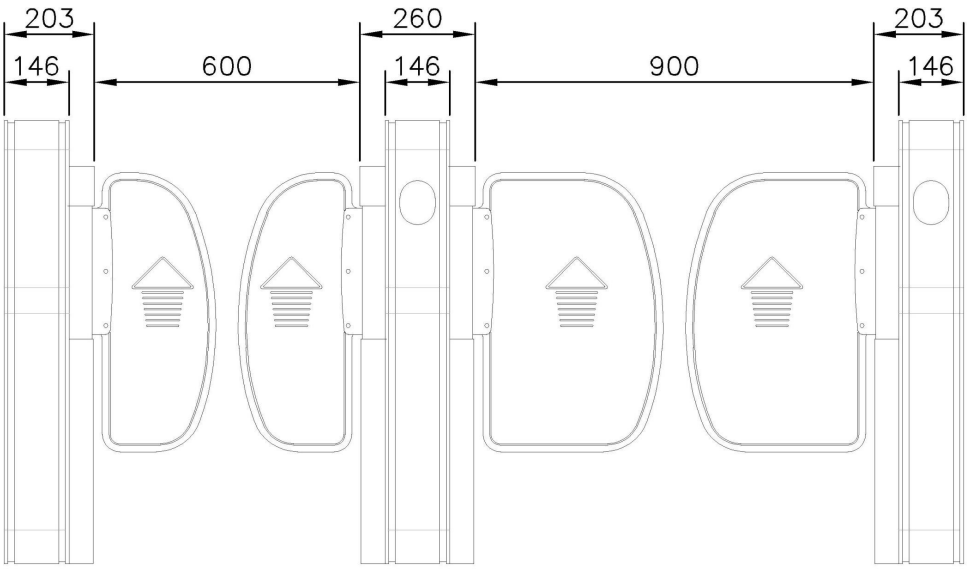
2. Smart turnstile gates are mainly used in high-end residential areas, office buildings, hotels, sea ports, subways and other areas where security is required. The transmission of the intelligent flap gate has no mechanical friction parts which makes for a longer operating life of the machine. Elegant appearance, anti-rust, durable, and external standard electrical interface, flap gate can easily be integrated with Mifare card, QR code, fingerprint, face recognition and other card readers on the turnstile for security of access control. The turnstile is equipped with an intelligent system and safety protection devices such as alarms, direction indications, etc. This system also coordinates the flap gates to maintain a consistent and fast flow while preventing the access to unauthorized personnel. During an emergency the flap gate will open automatically to ensure unobstructed passage and facilitate the timely evacuation of personnel.

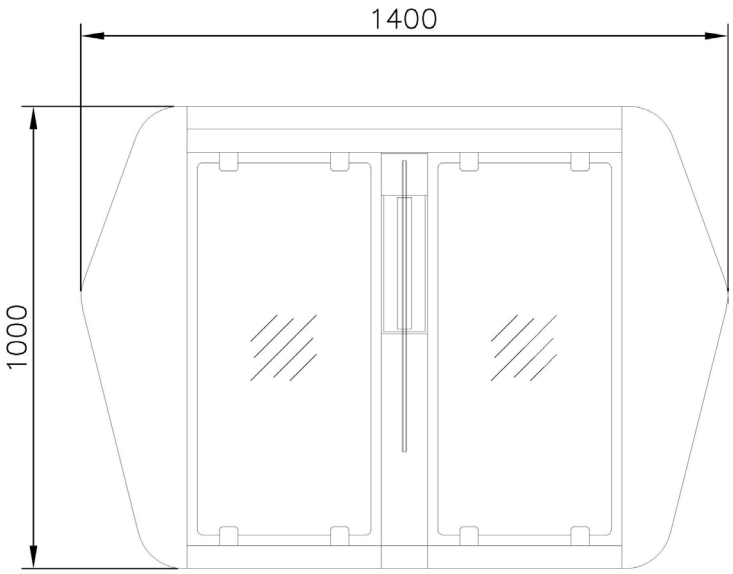
Technical Parameters

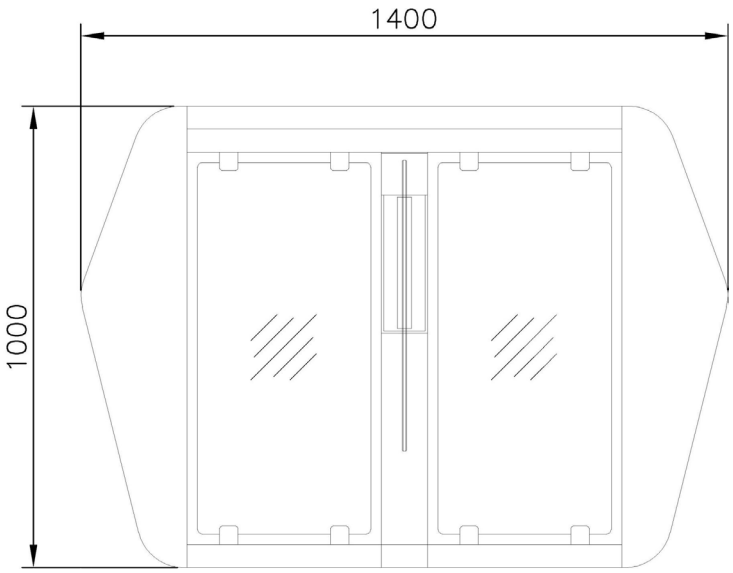
Dimensions:	L1400mm*203mm*1000mm
Material	SU304 stainless steel
Process:	Bright brushed material
Thickness	1.2mm/1.5mm/2.0mm optional
Channel Width:	Standard 600mm, 900mm for disable
Traffic Mode:	Single directional/bidirectional
Control Software	Access control attendance system/electronic ticketing system/consumption system, etc. Its depend on whats controller install
Read And Write Method:	ID card/IC card/National ID card/fingerprint, face recognition/QR code/static tester
Working Environment:	Indoor/outdoor (recommended for shelter)
Power Supply:	AC200V/AV110V (optional) 50HZ
Working Environment Temperature:	-25°C -65°C
Working Humidity:	< 95%, non-condensing
Traffic Speed:	40/min
Input Interface:	Digital signal
Communication Interface:	RS485/TCPIP
Extensible:	Personnel counting function, voice alarm function, camera snapshot function, etc.

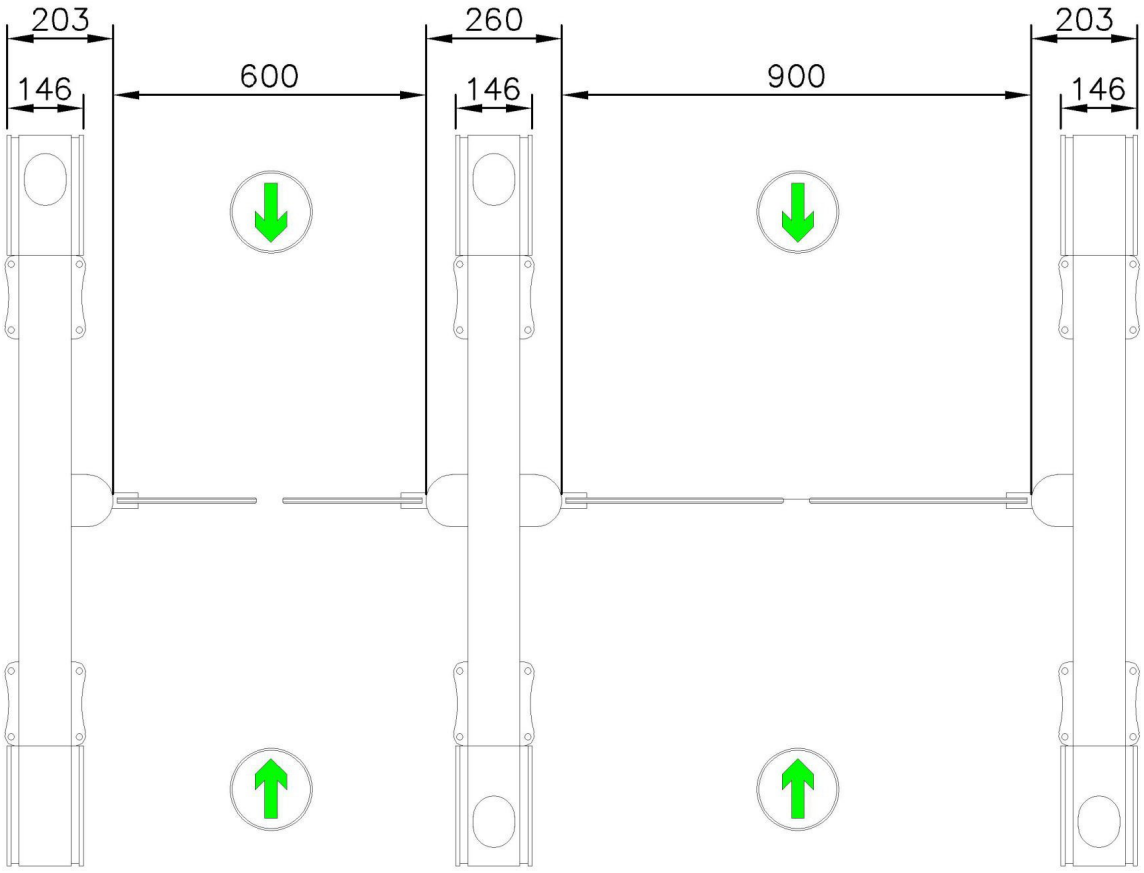
Adapted To The Office Space:	Commercial buildings, government agencies, etc.; Science and education units: colleges, research institutes, libraries, etc.;
Business Service Places:	Supermarkets, shopping malls, hotels, clubs, banks, etc.; leisure and entertainment places: parks, scenic spots, playgrounds, etc.
Transportation Station:	Bus station, railway station, subway station, airport, etc.

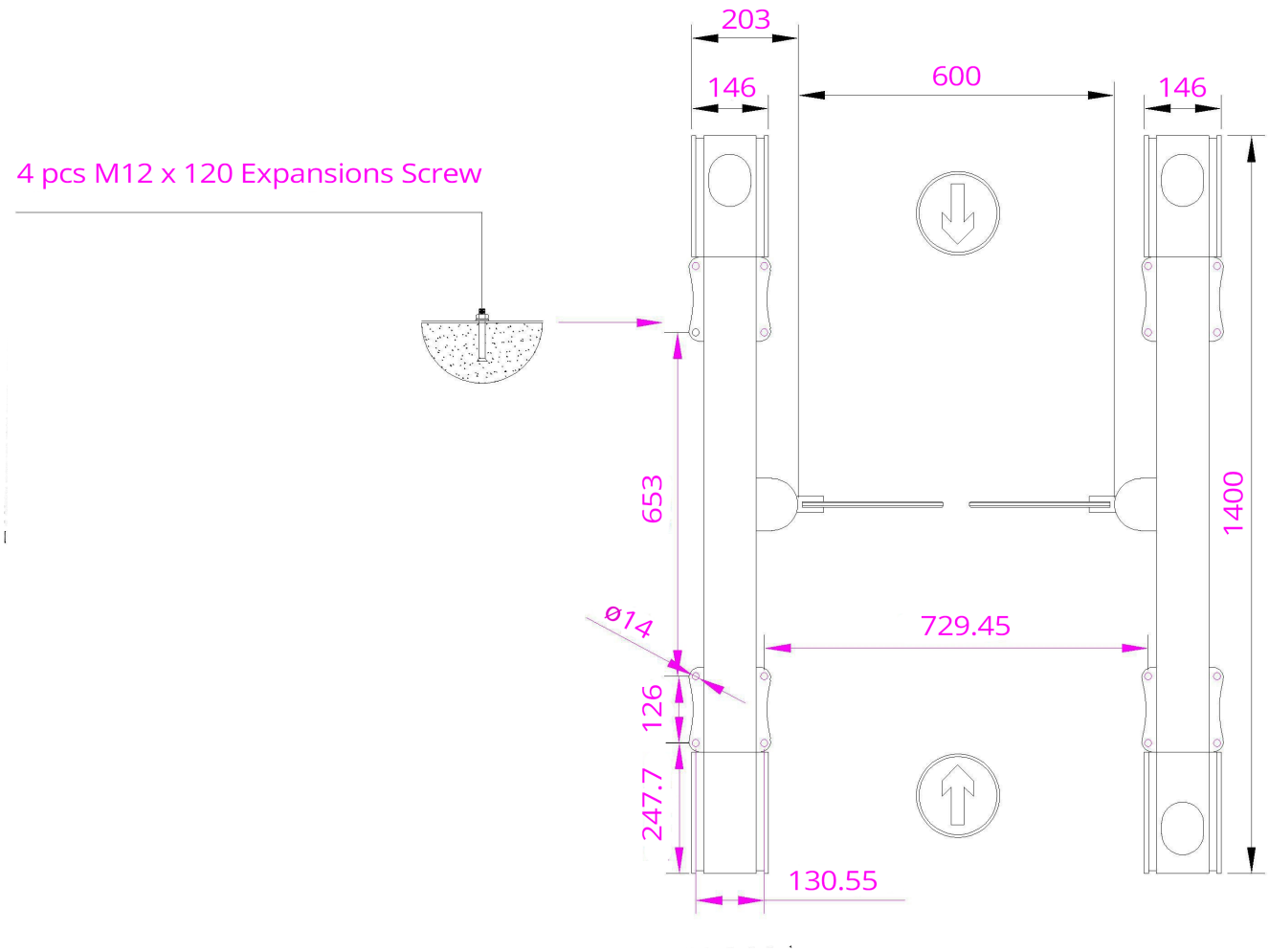
Size & Installation Drawing

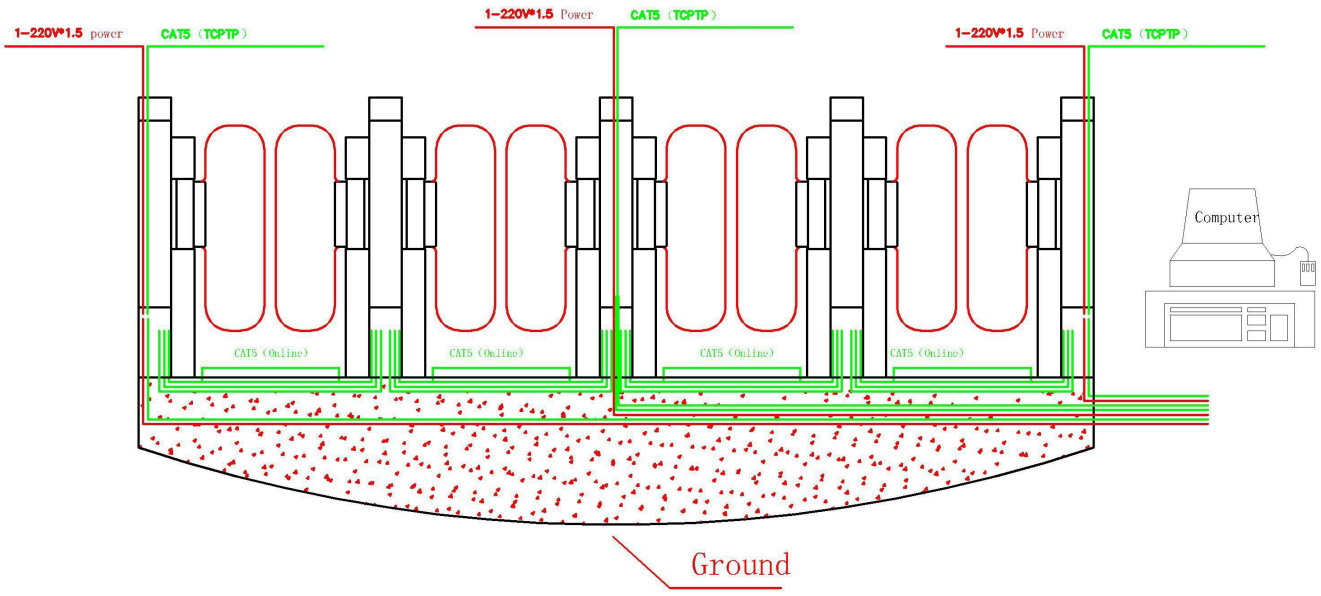




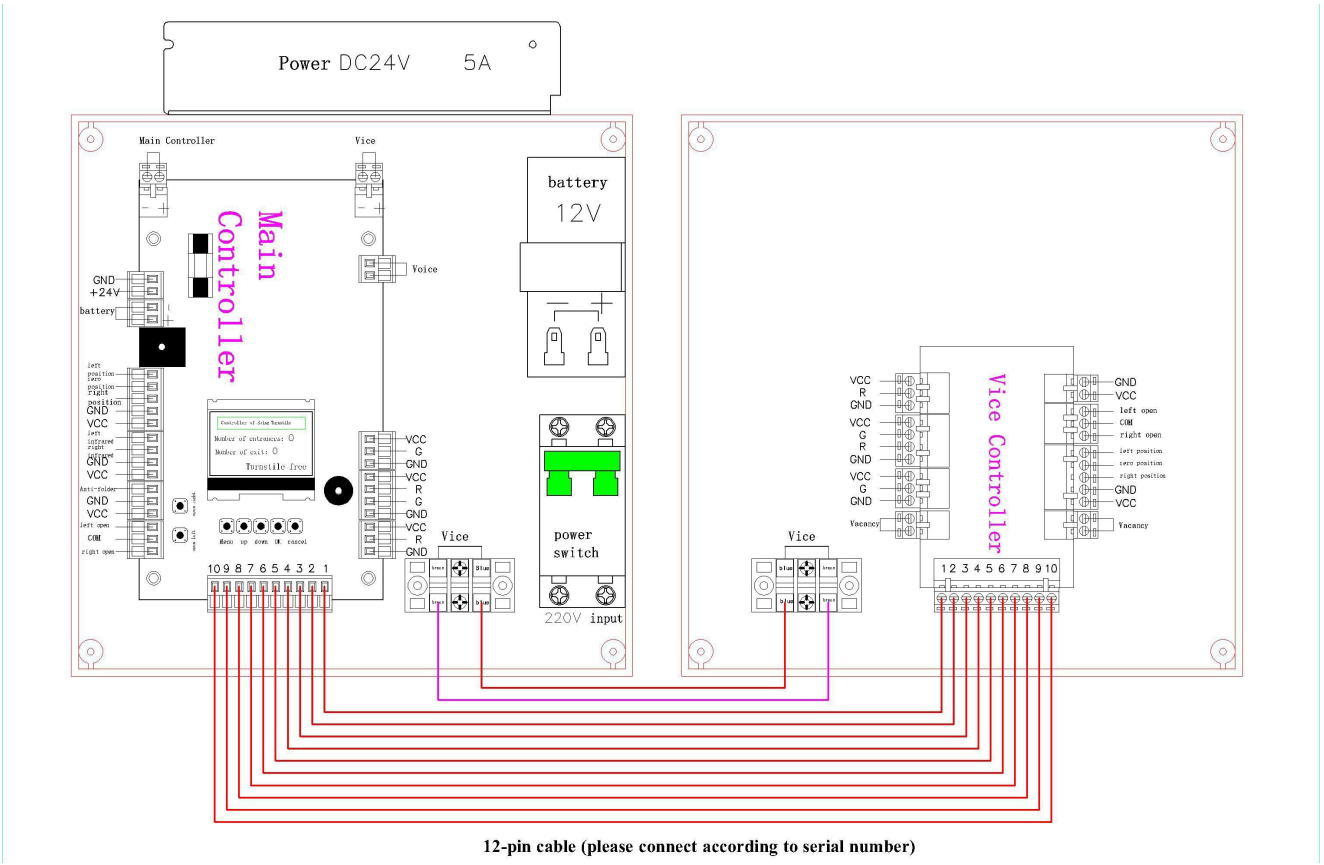

1400
1000


203
146
600
260
146
900
203
146


4 pcs M12 x 120 Expansions Screw
203
146
600
146
653
1400
Ø14
729.45
126
247.7
130.55


1-220V*1.5 power
CAT5 (TCPTP)
1-220V*1.5 Power
CAT5 (TCPTP)
1-220V*1.5 Power
CAT5 (TCPTP)
Computer
CAT5 (Online)
CAT5 (Online)
CAT5 (Online)
CAT5 (Online)
Ground

Swing / Flap Turnstile Wiring



12-pin cable (please connect according to serial number)

Menu setting instructions
When the control panel is powered on, the default status is displayed on the LCD screen. The default status displays the "working mode" (swing gate, open gate, wing gate three working modes) and the number of times of entry and exit.
There are 5 operation buttons on the control panel, "menu" "up" "down" "OK" "cancel".
Menu operation
Press the "menu" button, enter the password input interface, the default password is: up up down down up down. Enter the 6-digit password, press "OK" to enter the menu. After entering the menu, press "up" and "down" to select a function menu and then press "OK" to enter the function or numerical change interface, press the plus or minus key to select or adjust to the corresponding value.
Example: To change the turnstile work mode: Go to the menu and select "startstile work mode" in the menu - press "OK" (display the current mode of operation) - then press "OK" to enter the modified value interface - press "" or " Under "Select - Press" OK "to modify the success - press" Cancel "to exit after setting (do not press the cancel button, the system will automatically exit after 15 seconds).
A. System Menu Description:
1. "Entrance and exit direction configuration":
Set the left side of the gate for the entrance or exit; gate right for the entrance or exit.

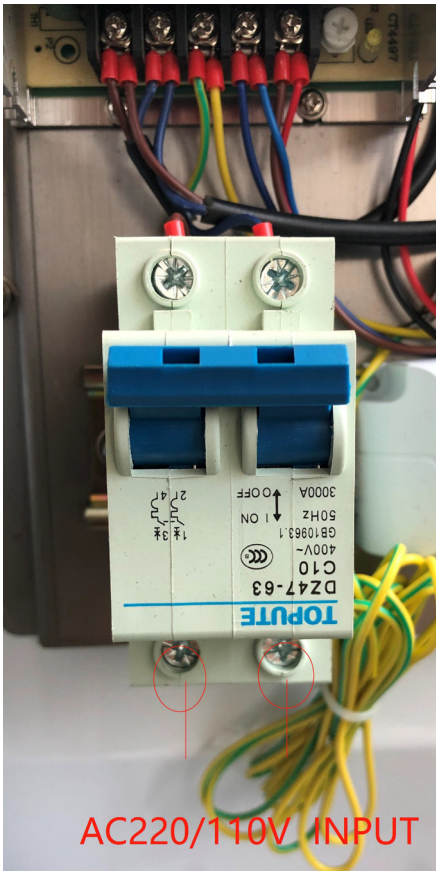
2. "Entrance and Access Configuration":
Set both sides of the gates (entrance and exit) to allow access. When set to disable the gate signal is invalid.

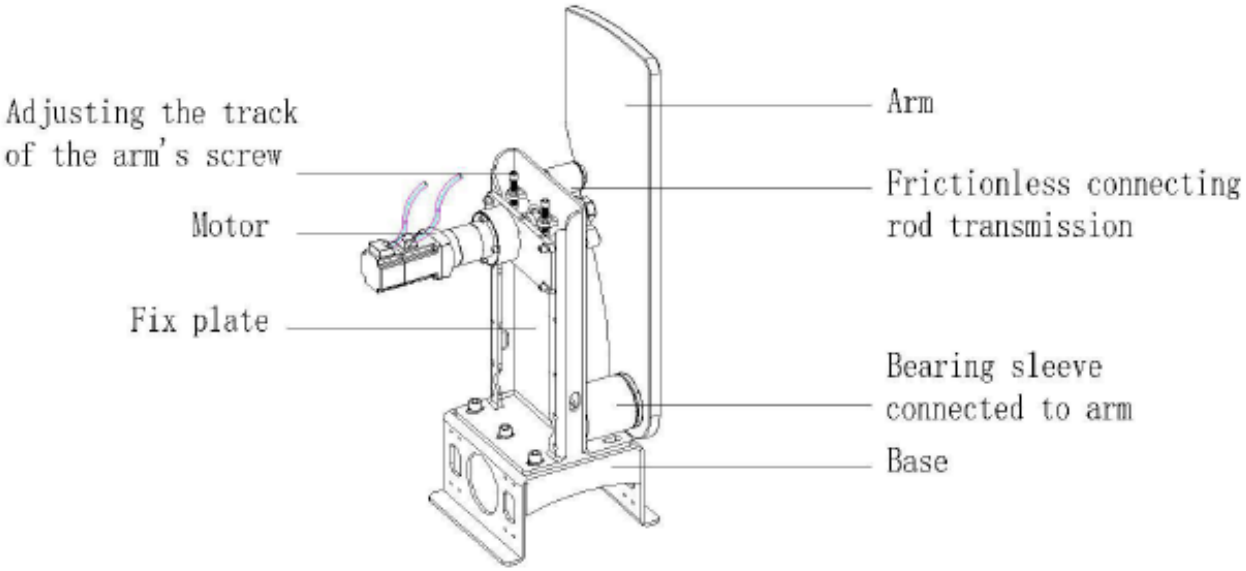
3. "gates work mode"
Set the way to open the gate, open the door for the infrared, or card open gate.

4. "Exit memory function configuration"
Open or close the entrance when there is a memory function, generally used for credit card opening, in a person has not passed the case of credit card, whether to remember other people's credit card situation. "Prohibited" for the first card after the adoption of the second person to swipe card to be effective; "allow" the number of personal credit card is allowed to continue the number of individuals through.

5. "Entrance opening time"
Set the gate, no one access, the gate automatically shut the gate length.

6. "Counter reset"
Clear the number of entry / exit passes and count again.
7. "Equipment number"
The device number of the control panel.
8. "Device information"
Displays the basic information of the control panel, such as type, model and other information
9. "gate type"
Set the type of gates, a total of three types of "wing gate", "swing gate" (pendulum), "open swing gate"; what is the gate should be set to the appropriate type to work properly.
10. "System initialization"
Initialize the control board parameters, after the initialization is successful, the control panel parameters to restore the factory settings.
11. "Passwords on the left"
Set the voice that the handset needs to play when traveling from the left. Such as: from the left when the gate to play the "Welcome".
12. "Right pass voice"
Set the voice that the handset needs to play when it passes from the right. Such as: the right when the passage of the gate to play "all the way safe."
13. "Test voice"
Automatically play the control panel inside the voice, after playing automatically exit.
14. "Motor speed"
Used to set the main, from the motor running speed, the smaller the value the slower the slower.
15. "Maximum motor running time"
Set the motor to run the longest time, (the control panel due to external detection failure or other no signal) to prevent the motor has been idle, the default is 10S.


AC220/110V INPUT


Adjusting the track of the arm's screw
Motor
Fix plate
Arm
Frictionless connecting rod transmission
Bearing sleeve connected to arm
Base

Problems encountered in gate maintenance and installation:

The maintenance and repair of moving parts:

1. Regularly lubricate the “gear”, “rocker arm” and “slide rail” transmission positions of the movement to ensure that the brakes reduce wear during long-term operation, thereby extending the use of the transmission parts for the turnstile. (Under normal circumstances, add lubricating oil quarterly, or gauge on-site use, if there is high traffic lubricate more frequently.)

2. Motor replacement: First power off the machine, then take out the four M8 hex screws that attach the motor frame, then take out the M5 hex sockets which attach the motor frame to the motor. Take out the new motor and re-screw the hexagon socket screws back to their original position.

Installation and debugging:

1. The gate does not close after powering on: check whether the anti-pinch infrared in the infrared layout of the gate is aligned? When the infrared hair is aligned and there is no obstruction, the infrared signal light is not bright; If the infrared signal is always on when there is no obstruction, the infrared position needs to be adjusted manually until the infrared signal is off;
Always alarm when the gate is powered on, make sure the infrared sight of the gate is aligned. When the infrared sight is aligned and there are no obstructions, (note: the infrared signal light is not bright.).
If the infrared signal is always on when there is no obstruction, the infrared position needs to be adjusted manually until the infrared signal is off;

2. The gate does not open when the power is off: check whether the battery wire on the gate is plugged in? (Due to transportation reasons, the battery line of the gate is not plugged in before leaving the factory), and then plug in the battery line after the gate installation and debugging is completed.

3. Replace the sensor on the gate: first power off the gate to find the sensor to be replaced, cut the sensor line at the distance sensor 15CM, and then cut off the one-to-one correspondence according to the color of the sensor line.

4. Make sure the gate is connected to the ground.

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