



ID GATE 6200 User Manual

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1 Product Instruction

1.1 Note

- 1) Turn off the power before installation, operation or maintenance.
- 2) Do not change the inside wiring, take a photo before any disconnection.
- 3) Do not use the power supply inside the turnstile to connect another third-party device.
- 4) Do not operate the turnstile during thunderstorms or lightning strikes, as this may damage the electrical parts of the turnstile.

1.2 Functional features

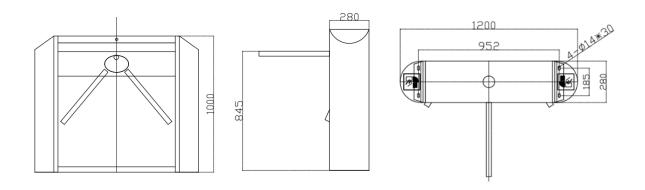
- compact and cost-effective security solutions
- stainless-steel body
- ◆ compact design (360*260*980mm)
- ◆ Turnstile with standard open/close relay signal, can be integrated with any type of the third-party access control parts. (e.g.: RFID, Fingerprint and Biometric reader device).
- ◆ In case of emergency, the turnstile opens automatically and allows free passage if the power fails.
- Anti-tailing function: only one person passes at a time.
- ◆ Anti-impact function: when the opening signal is not received, the rotating rod will lock automatically.
- Automatic reset function: turnstile arm will lock automatically within 5s (can be adjusted) if passengers enter too late.
- ◆ Working way: Single directional or Bi-directional.
- ◆ LED indicator (red means no entry; green means entry; blue means normal close).
- Easy to install and maintain.

1.3 Structures and dimensions

The Tripod turnstile has a 304 stainless steel body surrounded by a LED light strip.

Appearance and dimensions are as shown in figure 1:

Figure 1



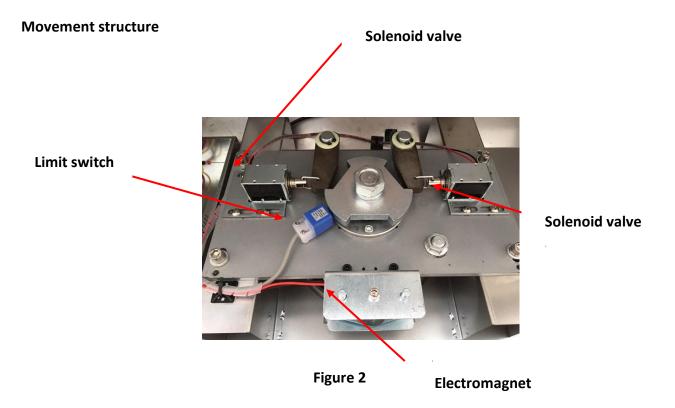
1.4 Technical parameter

Item	Description
Cabinet	304 Stainless Steel with rubber protector
Dimension	L360*W260*H980(mm)
Weight	35Kg
Pass Width	1 lane, 550mm (Arm length: 500mm)
Power supply	AC230V/110V, 50/60Hz
Working voltage	24V DC
Emergency	Arms will drop down automatically
Power consumption	20W
Working environment	Indoors or outdoors, IP65
Working temperature	-15 °C - 60 °C
Humidity	0 ~ 95% (no freeze)
Control interface	Dry contact/Relay signal
Opening time	0.2 seconds
Passing speed	35~40 persons/min

2 Product Structure and Working Principle

2.1 Tripod turnstile mechanical system

The mechanical system of the turnstile is divided into a frame and a movement part. The frame is equipped with a direction indicator, read-write device and etc. The main components of the movements are motor, motor frame, drive shaft and arms.



2.2 Tripod turnstile electric control system

The electronic control system is consisting of card reader, main control board, direction indicator board, and transformer and so on...

- Card reader (self-provided): after reading the information on the card and judging and processing, it will send an application pass signal (switch signal) to the main control board.
- Main control board: the control centre of the system, which receives the signals from the card reader, makes a logical assessment and processing of these signals and then issues execution commands to the flashing light, the motor, the counter, and the alarm.
- **Direction indicator light:** display the status of the passage signs and guide pedestrians to pass through the passage in a safe and orderly manner.

Item No.	NAME	FUNCTION
1	Entrance	IC/ID card access control, 1/2D barcode reader,
	access	gate opening signal on the control board of gate machine,
	system	remote control, button to open the gate(optional)
2	Control	The control center of the system, which receives signals from
	board	the card reader, makes logical judgment and processing of these
		signals, and then sends out execution commands to the
		direction indicator, motor, counter an alarm.
3	Direction	The directional indicator light shows the status of the passage
	indicator	sign and guides pedestrians through the passage
4	Limit	Check opening and closing position
	switch	
5	Switch	Supply power to control board

2.3 Operating principle of the system

- a) Turn on the power and the system will enter working state after 3 seconds.
- b) When the card reader reads a valid card, the loudspeaker emits a sound indicating to the visitor that the card has been read successfully. At the same time, it evaluates and processes the information read from the card and sends an approval signal to the main controller.
- c) The main control receives the signals from the card reader. After comprehensive processing, it sends effective control signals to the direction indicator and motor, so that the direction indicator sign turns into the green arrow pass sign.
- d) After the pedestrian passes through the channel according to the direction indicator, the infrared sensor senses the whole process of the pedestrian passing through the channel and continuously sends signals to the main control panel until the pedestrian has passed through the channel completely.
- e) If a pedestrian forgets to read his card or reads an invalid card and enters the channel, the system will forbid the pedestrian to pass through. Rereading a valid card allows passage.

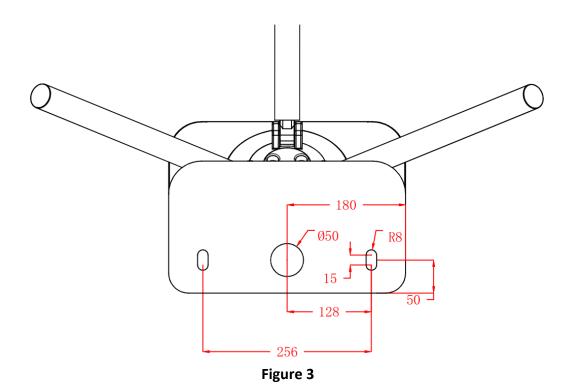
3 Install Instruction

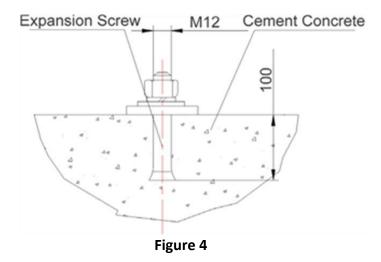
3.1 Installation notes & suggestion

Note: During installation and construction, relevant circuits should be disconnected to ensure that all circuits are correct before power is applied.

Installation Suggestion:

- 1) It is recommended to lay the cables 60mm deep, at least 50mm, into the ground.
- 2) If the turnstiles are installed outdoors, it is recommended to install them 100-200 mm deep in concrete to avoid natural damage.
- 3) All operations should be carried out with the power off.
- 4) The power cable and the normal electric cable are each carried in a 3/4" PVC pipe and buried with cement in the appropriate place.
- 5) After adjusting the foundation area, place the devices in the correct order.
- 6) After the position of the hole has been determined, drill the hole, and insert the anchor bolt or expansion screw M12.





- 7) Open the casing, select one of the units as a reference (preferably the middle one), align the hole of the bottom screw with the corresponding anchor screw and pre-tighten the nut.
- 8) Connect the power line and the control line according to the wiring diagram and connect the ground cable to the system
- 9) Check the mains wiring according to the wiring diagram, check that the power wiring and other wiring of the entire unit are correct, and the power can be adjusted after confirmation.
- 10)After completion of the installation, check the connection condition of earth wire, connector assembly for connecting line and all moving parts with the device. Make sure the connection is firm in order to prevent failure caused by long time operation. If any screw or part is not tightened, please tighten.
- 11) After the check of the unit status has proceeded normally, the function can be tested.

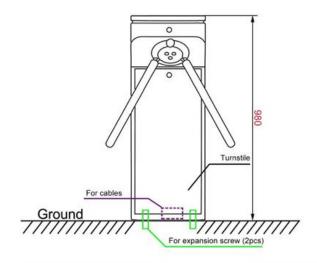


Figure 5

3.2 Turnstile cable drawing

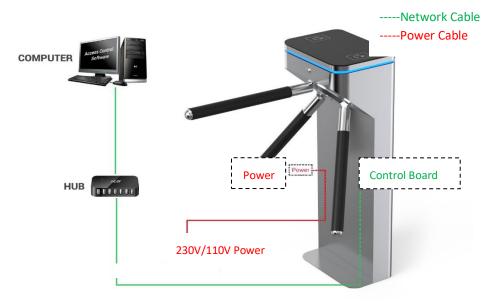


Figure 6

3.3 Turnstile circuit board wiring diagram

- *Connect the turnstile to a 110V/230V power supply.
- *Any type of third-party access control device can be connected to the "OP-L"," COM" and "OP-R" terminals.

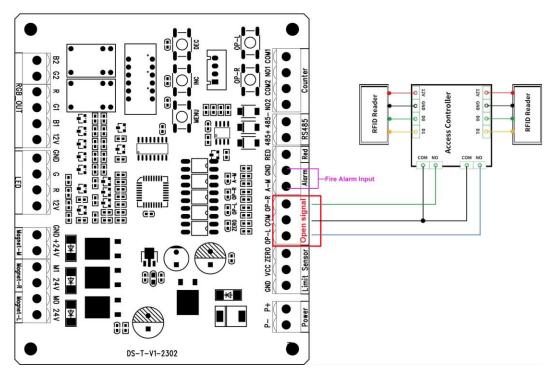


Figure 7

4 Menu Parameter Setting

4.1 Button introduction

The control board has three operation buttons: "MENU" menu key/confirm key, "INC" up/add key, and "DEC" down/subtract key.

"MENU" key:

- 1. In standby mode, it acts as a menu key. Long press this key to enter the menu.
- 2. In the menu interface, it acts as a confirm key. After selecting the corresponding menu, press this key to enter the menu parameter setting interface.
- 3. After the menu is set, press this key to save the parameters and return to the system menu interface. "INC" key: It increases the value by 1 when selecting the system menu and setting parameters.
 - "DEC" key: It decreases the value by 1 when selecting the system menu and setting parameters.

Note: In the system menu and menu setting interface, if there is no button operation within 5 seconds, the system will automatically exit the menu to the standby interface.

4.2 Menu setting

For example, if you want to change the gate channel passage time:

Step 1: Long press the "MENU" key to enter the system menu, use the "INC" and "DEC" keys to select the "F 0 X" menu (menu explanation below).

Step 2: Press the "MENU" key to enter the channel time setting interface.

Step 3: Use the "INC" and "DEC" keys to increase or decrease the parameter value.

Step 4: After setting is complete, press the "MENU" key to save.

Step 5: Exit the menu: Select the "F 11" menu and press the "MENU" key to manually exit the menu or automatically exit the menu if there is no button operation within 5 seconds.

4.3 Parameter setting instruction

Control board connected to power, LED display shows <Run>

"F01" Set the passage time:

The time is automatically cleared to zero after the person passes through the gate within the set time. If no one passes through, the gate will automatically close when the time is up. (Default 5 seconds)

"F02": Constant open function setting.

- 1: Open the left electromagnet when it is always open. 2: Open the right electromagnet when it is always open.
- 3: Open both left and right electromagnets when it is always open. (Default value 3, open both electromagnets when it is always open)

"F03": Gate working mode.

0: Free passage (commonly used for turnstile); 1: Power-off drop bar (default 1 power-off drop bar)

"F04": Memory function.

Turn on or off the memory function of the opening signal input. Generally used for card swiping to open the gate. If there is one person swiping the card and has not passed through, whether to remember the card swiping of other people. "Prohibited" means that the second person's card swiping is effective only after the first person has passed through; "allowed" means that the number of people swiping the card is allowed to pass through continuously. (Default value 0, memory prohibited)

"F05": Repeatedly switch the gate test, mainly used to test the stability of the gate control board and aging test. Note: In the test mode, press the MENU key to exit the test.

"F06": Zero signal setting.

- 0: Close the gate immediately when the zero signal is detected (standard mode for three-roller gates, the main board is set to 0 by default);
- 1: Detect the zero signals, and then wait for the zero signals to disappear before closing the gate (commonly used for full-height gates) (default value 0)

"F07": Gate constant open setting the unit is seconds.

This parameter is used to detect continuous opening signals. When the duration of the continuous opening signal exceeds the parameter set, the system enters the constant open state (which electromagnet is always open is determined by the F02 parameter. The default value of F02 is that both electromagnets are always open). If the opening signal given to the gate is a continuous signal, the gate will remain open. After the continuous signal is disconnected, the gate will return to the standard mode. (Default parameter 0 seconds, constant open is closed)

"F08": Gate opening delay.

This parameter is effective only when the memory function is turned on. When there are too many people passing through continuously, this function can prevent the gate from opening again when the previous person has not passed through the channel. (default value 0, no delay)

"F09": Limit count setting.

Set how many times the limit signal needs to be detected during the gate opening process to close the gate. (default 1 time)

"F10": Restore factory settings.

All parameters of the main board are restored to the factory settings.

"F11": Exit the menu. Or automatically exit if there is no button operation within 5 seconds.

Note: In free passage mode, whether to count depends on the F02 parameter. When the F02 parameter is 1, the left free passage is counted, when the F02 parameter is 2, the right free passage is counted, and when the parameter is 3, the free passage is not counted.

Product Maintenance ID GATE 6200

5 Product Maintenance

5.1 Daily maintenance

- To avoid the risk of electric shock, always switch off the unit before inspecting it.
- Check the appliance at regular intervals to ensure that all parts are working properly.
- The material is stainless steel, do not use hard materials for cleaning.
- Clean fingerprints or stubborn stains with soapy water or alcohol, rinse with clean water and wipe dry if necessary.

5.2 Tips and troubleshooting

A. Tripod turnstile stays closed after a card has been swiped

- a) Check whether the main board receives the opening signal.
- b) Check whether the opening signal lead or the solenoid valve lead is loose.
- c) Measure with a multimeter whether there is a voltage of 24 V on the solenoid valve terminal of the main board and assess whether the solenoid valve is damaged.

B. Tripod turnstile arms do not fall down in case of power failure

a) Check if the support of the electromagnet is loose, readjust it and fix it.

C. When the arm is connected to the power supply, it cannot be lifted manually.

- a) Check if the pole drops support of the electromagnet is loose, test if the electromagnet is magnetic with a metal object.
- b) Use a multimeter to measure whether there is 24V at the electromagnet terminal of the main board, and asses whether the main board has normal voltage output.

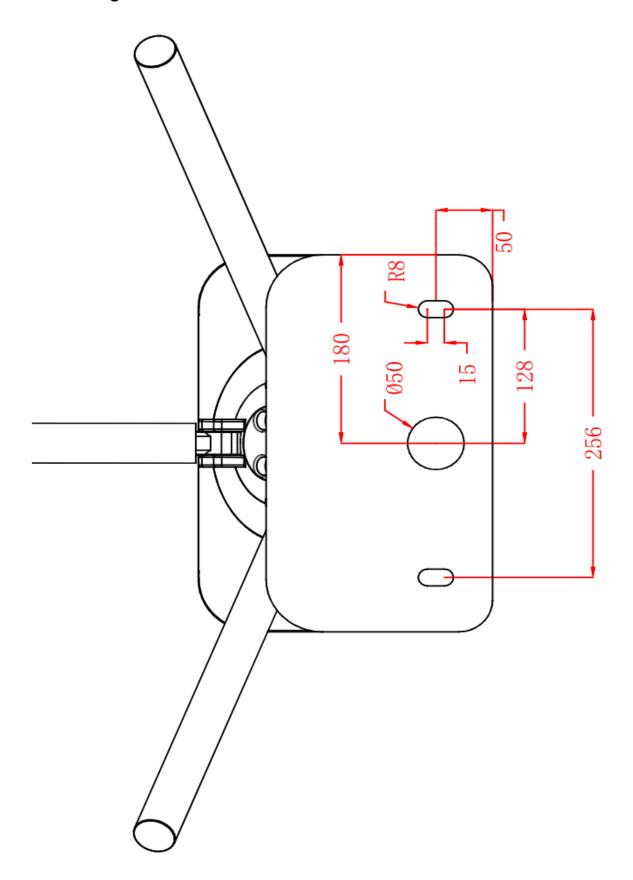
D.The main board is not supplied with power after switching on

- a) Check with a multimeter to check whether there is 24V voltage input at the input port.
- b) Check whether the fuse has blown
- c)Check whether there is 24V at the output end and assess whether the power supply is damaged

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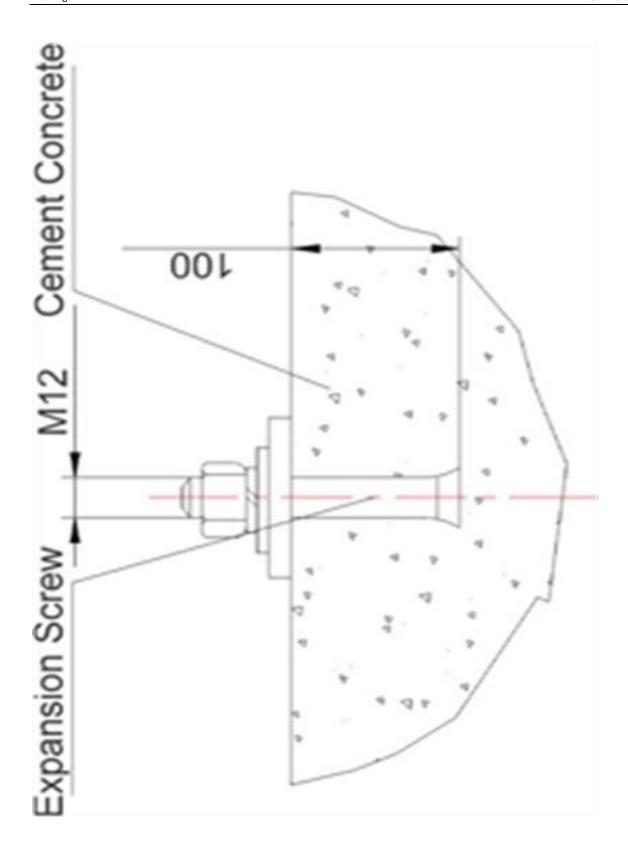
ID GATE 6200 Drawings

6 Drawings



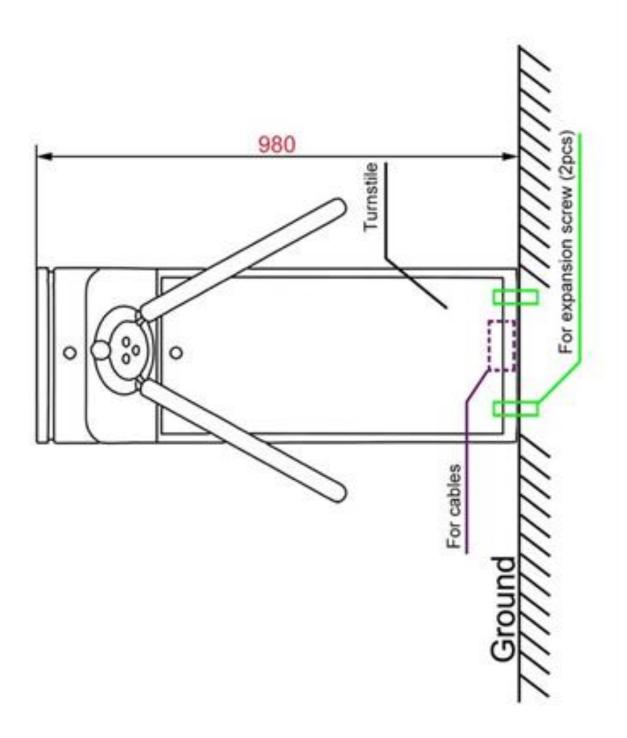
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Support ID GATE 6200

7 Support

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