

Tripod turnstile Operating Manual

CPW-311BS

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1.General Descriptions

The tripod turnstile CPW-311BS is with bevel design and no side baffles, which is light and beautiful, simple and stylish. The housing made of high-quality stainless steel is durable. The mechanism modules adopts dampers, with low noise, low power consumption, energy conservation and environment protection.

Equipped with dry contact signal input interface, RS485 / RS232 interface, TCP/IP (optional). It is suitable for business building, subway, airport, exhibition hall, factory, tourist attraction, residential community, etc.

The product has been strictly tested before leaving the factory. But to ensure the safe and reliable operating of the product, users are recommended to read the manual carefully before operating so as to avoid improper operation and damage to the interests of users.

2. Definitions

2.1 Tripod turnstile

The tripod turnstile consists of housing cabinet and three turnstile poles. By rotating at \pm 120°each time, it can achieve the purpose of stopping or releasing. According to different ways of mechanism control, the tripod turnstile can be divided to be mechanical tripod turnstile, semi-automatic tripod turnstile, and fully automatic tripod turnstiles.

- Mechanical tripod turnstile: not including motor, control boards or any other electric parts; no need of power supply; users need push poles to pass through.
- Semi-automatic tripod turnstile: not including motor, but it is equipped with control boards and other electric parts; need to put up the pole when power on; users have to push the poles to pass through after providing valid open signals.
- Fully automatic tripod turnstile: including motor, control board and other electric parts. After a valid open signal is given, the poles will rotate towards the opening direction for a certain angle, indicating user to pass through. After user pushes the pole, it will rotate towards the opening direction automatically.

2.2 Passing Modes

- Controlled mode: it is the default standby mode of turnstile. When a valid open signal is given, the turnstile poles open to allow users to pass through. The valid open signals are dry contact open signal and communication protocol open signal.
- > Free passing mode: Passengers can manually push the arms to pass through freely.
- Forbidden passing mode: When a valid open signal is given, the turnstile poles don't open and users are not allowed to pass through.

3. Safety Precautions

Although a series of testing has been carried out before the turnstile leaves the factory and the turnstile can run safely and stably, users should perform proper installation and commissioning strictly in accordance with the operating manual before the turnstile can be put into use. Manufacturers may refuse to take any responsibility for any consequences caused by improper operation or human damage. Before installation, please pay attention to the following safety precautions:

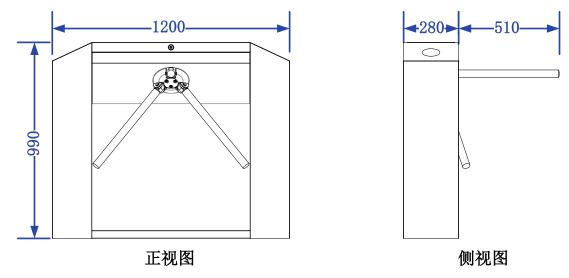
- Only certified and trained electrical technicians may perform the strong electric 220VAC electrical connections.
- > It is prohibited to install the turnstile without proper mounting foundation.
- Disconnect the power supply of all external systems (such as access control, visitor management system, ticketing system, etc.) during maintenance work.
- > A leakage switch or residual current operated device is compulsory.
- > The electrical wiring of turnstile must comply with the attached wiring diagrams.
- > Before the turnstile can be put into use, make sure the turnstile functions are tested OK.
- > During maintenance work, the fixing bolt must be checked and tighten.
- Current carrying components like switch power supply, resistors, lamps shall not be touched while in operating as the high temperature might cause skin burns.
- > It is forbidden to apply heavy force on the turnstile; otherwise, unnecessary damage may be caused.
- It is recommended to separate the turnstile with other equipment power supply interface; otherwise the turnstile might be damaged due to the mutual interference between the equipment.



The equipment is not equipped with explosion-proof design, and it is not allowed to apply the equipment to an environment with danger of inflammable or explosion. However, it is optional for user to purchase other type for the purpose.

4. Product Structure

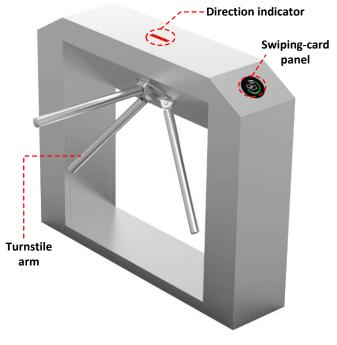
CPW-311BS consists of mechanical system and electric system. Its outline dimensions are shown as Figure 4 below.



4.1 Mechanical system

The mechanical system of turnstile consists of housing cabinet and mechanism. The housing cabinet is shown as Figure 4.1. It consists of swiping-card panel, direction indicator and housing. The mechanism consists of solenoid, infrared sensors and turnstile poles.







4.2 Electric System

The electric system of turnstile consists of main control board (see Appendix A1), motor board (see Appendix A2), direction indicator lights and power module. The counter, sound-light alarm device and access controller are optional.

5. The working principle of the turnstile system

- (1) Turn on the turnstile system power; after the system performing power on self test, turnstile poles need to be put up manually; then system enters standby mode; the direction indicator turns red.
- (2) User provides valid open signal (access control system swiping-card open signal, turnstile system open button signal) of IN/OUT direction to main control board.
- (3) After the main control board receives the valid open signal of IN/OUT direction, it sends control signal to direction indicator. The IN/OUT direction indicator turns from red to green and user need to push the poles to pass through.
- (4) After user finishes passing through, the main control board sends control signal to direction indicator; the turnstile closes and the system enters standby mode; IN/OUT direction indicator turns red.



6. Product installation, inspection and tests

6.1 Product installation

6.1.1 Turnstile poles installation

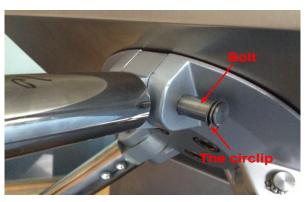
For the convenience of transportation, the turnstile poles will be removed before leaving the factory, and users are required to re-install the poles. The installation instructions of turnstile poles are shown as Figure

6.1.1.



(1) P ut the arm into the corresponding turntable according to the numbers attached on turnstile arms; pay attention to the installation direction of arms and the connection between the arms and the top pin; put the indented end of arm inward.

(2) Adjust the arms so that bolt holes of poles and turntable are concentric;



(3) Fix two circlips on one end of the bolt first, then pin the bolt into the bolt hole on turntable.(4) Put down the arms, then fix two circlips on the other end of bolt.

Figure 6.1.1 Turnstile poles installation

6.1.2 Housing Cabinet Installation

(1) Prepare necessary tools for installing turnstile and pick out the auxiliary parts according to the packing

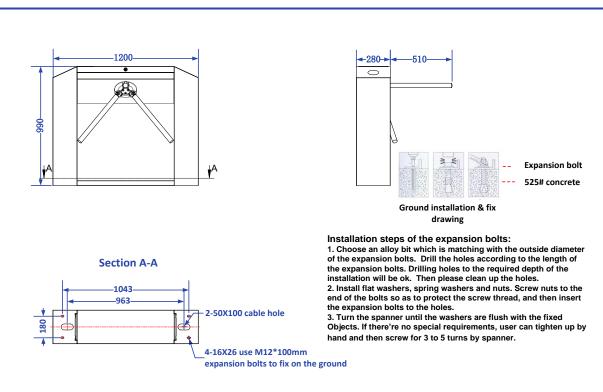
list.

(2) Confirm the system constitution and operating mode. Get ready for installation after finishing system

planning.

(3) Drill holes after confirming the positions. Pre-bury N*4 M10 expansion bolts as shown in Figure 6.1.2.

Note: N means the lane quantity.





(4) Put the both strong power and weak power cables into the 3/4"PVC tube, and bury them to the suitable positions.

(5) Move the housing cabinets respectively to the installing positions, making them align with the anchor bolts.

(6) Check the system structure and operating modes.

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(7) Open the housing cabinet door and choose one turnstile as a reference (It is recommended to choose the middle unit as a reference). Respectively align the drill holes of the bolts on the chassis with the anchor bolts and then tighten the nuts tentatively.

(8) Open the adjacent housing cabinet door. Respectively align the drilling holes of the bolts on the chassis with the anchor bolts according to the above referenced proper arrangement of turnstile online, and then tighten the nuts tentatively.

(9) Connect the power wires, control wires as well as the ground wires properly according to the wiring diagrams.

(10) After checking the turnstile status and performing function commissioning are OK, tighten the anchor bolts and nuts.

★ Note:

- (1) The depth of the PVC tubes buried shall be more than 60mm. The height above the ground shall be more than 50mm. And the PVC tube shall be bent return so as to avoid water falling in.
- (2) All the above operations should be carried out when power off and please make sure the ground wires of the system is connected correctly, properly and firmly.

Please refer to the CPW-311BS foundation fixing chart attached to the case.

6.2 Product status inspection

It is required to check the turnstile status after it is properly installed. Detailed procedures are as below:

- (1) Check the proper wiring connections among all electric components. Details please refer to Appendix.
- (2) After the wiring connections are checked OK, connect the turnstile to power.
- (3) After electrified, the tripod turnstile need to be put up the poles manually; then the system enters standby mode; the direction indicator will turn red. Please refer to the detailed status of the direction indicator in Table 6.2.

Passing Mode	Turnstile Opening Status	The traffic direction indicator
IN & OUT Controlled Passing	When standby, the turnstile closes; after receiving a valid open signal, the turnstile opens and user can pass through normally.	(1) When standby, IN&OUT direction indicator turns red.(2) When receiving a valid open signal, IN/OUT direction indicator turns green. OUT/IN direction indicator turns red.
IN or OUT Controlled Passing/OUT or IN Forbidden Passing	When standby, the turnstile closes; after the controlled direction receives a valid open signal, the turnstile opens and user can pass through normally; after the forbidden direction receives a valid open signal, the turnstile doesn't open.	 (1) When standby, IN&OUT direction indicator turns red. (2) When the controlled direction receives a valid open signal, the direction indicator of controlled direction turns green; the direction indicator of forbidden direction turns red. (3) When the forbidden direction receives a valid open signal, both the direction indicators of controlled direction and forbidden direction turn red.
IN or OUT Controlled Passing/OUT or IN Free Passing	When standby, the turnstile closes; after the IN/OUT direction receives a valid open signal, the turnstile opens and user can pass through normally.	 (1) When standby, the direction indicator of Free Passing direction turns green; the direction indicator of controlled direction turns red. (2) When IN/OUT direction receives a valid open signal, IN/OUT direction indicator turns green; OUT/ IN direction indicator turns red.

Table 6.2. Tripod turnstile passing model working status table

- (4) Check whether the turnstile working mode is in accordance with users' requirements. Please refer to Table 6.2 for details. If the direction indicator is abnormal, please refer to the product common troubles and trouble shootings in chapter 9 and rule out, or please contact the manufacturer.
- (5) Check whether the infrared sensors of each lane work normally or not. When infrared sensor is blocked, the corresponding infrared indicator light of the main control board should be off. If the corresponding infrared indicator is abnormal, please refer to the product common troubles and trouble shootings in chapter 9 and rule out, or please contact the manufacturer.
- (6) Check the running status of the pole. When standby, use the test buttons to provide open signal. When being pushed, the poles should rotate smoothly and return back normally. If the running status of poles are abnormal, please contact the manufacturer.

★ Note: Before leaving the factory, a series of tests have been carried out on the turnstile. But to ensure the stable running of the system, it is necessary to perform inspection on the turnstile status after properly installed at site. The inspection should be confirmed by the professionals before carried out. The turnstile parameters should not be modified at will without the approval of the manufacturer.

6.3 Product function tests

After checking the turnstile status, it is also required to test the turnstile functions. Detailed tests including: power on self test function test, normal passing test, IN & OUT passing modes test, and emergency escape function test.

6.3.1 Power on self test function test

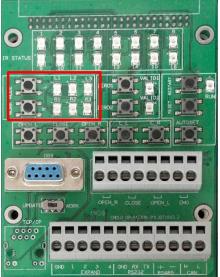
After electrified, the tripod turnstile should perform power on self test and need to be put up poles manually; then the system enters standby mode; the poles should be locked completely and the direction indicator turns red.

6.3.2 Normal passing test

Under standby status, the turnstile closes. Using the test button to provide valid open signal, user can manually push the poles to pass through. Within the allowed passing time (usually about 5S), user can pass through normally. During the passing process, the poles should rotate smoothly. After user finishing the passing, one of the poles should return to the closing position and be locked completely.

6.3.3 IN & OUT direction passing modes test

Set the turnstile passing models via the WORK MODE module on the control board, as shown is Figure 6.3.3. The IN direction and OUT direction can be separately set as [Controlled Passing] / [Free Passing] / [Free Passing] / [Forbidden Passing] . Generally the turnstile passing modes are set as IN & OUT controlled passing (default), IN/OUT controlled passing & OUT/IN forbidden passing, as well as IN/OUT controlled passing & OUT/IN forbidden passing, as well as IN/OUT controlled passing & OUT/IN free passing. Observe whether the poles' status and the direction indicator are normally or not under different working modes. If they work normally, then the passing modes can switch normally. If not, the mode switching function is abnormal. Please refer to Table 6.2 for details.



IN & OUT Directions Working Mode Setting:

Use the R & L buttons to switch the working modes of IN & OUT directions: L: Switch the working modes of IN direction (controlled-free-forbidden, switched in loop)

R: Switch the working modes of OUT direction (controlled-free-forbidden, switched in loop)

Passing mode indicator lights show the working mode of the corresponding direction:

L1 (Green) : When the light is on, the IN direction is at free passing mode.

L2 (Red) : When the light is on, the IN direction is at forbidden passing mode.L3 (Yellow) : When the light is on, the IN direction is at controlled passing

mode. R1 (Green) : When the light is on, the OUT direction is at free passing mode.

R2 (Red) : When the light is on, the OUT direction is at forbidden passing mode.

R3 (Yellow) : When the light is on, the OUT direction is at controlled passing mode.

Figure 6.3.3

6.3.4 Emergency escape function test

Press the dropping-pole button (red button), the pole locating close to the door should drop down automatically and users can pass through from both directions.

7. Product usage

When using the tripod turnstile, users should obey the passing rules of "Swiping cards outside the yellow line" and "one person one card, passing in turn".

Note: "Swiping cards behind the yellow line" and "one person one card, passing in turn" means user should stand outside of the yellow line to swipe card; each time a valid card swiped only allows one person to pass through and the behind or opposite user should wait for the front user finishing passing then swipe card to



pass through.

7.1 Tripod turnstile single directional passing

Under standby status, user stands outside the yellow line of IN/OUT direction and provides a valid open signal of IN/OUT direction to turnstile system, then the turnstile opens, and user pushes the poles to pass through. After user finishes passing through, one of the poles should return to the closing position and be locked.

7.2 Tripod turnstile single directional continuous passing

When user provides more than one open signals at the same direction, the turnstile system will memorize all the passing requests and finish them in sequence.

7.3 Tripod turnstile bi-directional passing

Under standby status, user A stands outside the yellow line of IN direction and provides a valid open signal of IN direction for the turnstile, the turnstile opens and user A passes through. After user A finishes passing through, the turnstile closes. User B should be waiting outside of the yellow line of OUT direction. After user A finishes passing through, user B stands outside the yellow line of OUT direction and provides a valid open signal of OUT direction for the turnstile, the turnstile opens and user B passes through. After user B finishes passing through, the turnstile closes. The turnstile and user status during the passing process of user B is shown as Figure 7.3-1. The turnstile and user status during the passing process of user B is

Note: For bi-directional passing, users can only swipe cards and pass through in sequence. It is not allowed to pass through simultaneously or reversely. The white one indicates user A, while the blue one indicates user B.



Figure 7.3-1 Passing Process of User A





Figure 7.3-2 Passing Process of User B

8. Product cleaning and maintenance

The cleaning and maintenance of turnstiles will directly affect its service life. Therefore, it requires periodic maintenance.

8.1 Daily cleaning

The daily cleaning includes surface cleaning and internal cleaning. The cleaning frequency is once a week.

Please refer to Table 8.1 for details.

Area	Tools	Cleaning Methods	Notes
Stainless steel surface of housing cabinet	①Clean and soft cloth ②Stainless steel cleaner polish, watered alkaline detergent (Proportion 7:1)	 ①Disconnect to power, and use clean soft cloth to clean the dust on surface. Spray the stainless steel cleaner polish on the clean cloth, and then wipe along the lines of the brushed stainless steel surface until it's clean and bright again. ②Use the cloth to clean the bottom and the surrounding ground; Make sure the bottom is dry, and without any water. 	Please do not use water, strong alkaline solvent or acidic solvent to clean.
Organic glass	①Clean and soft cloth ②Clean solvent (special organic glass clean solvent, 1% of soapy water, glass cleaning liquid "glassy water", 30% concentration medical alcohol, diesel and other alkaline or acidulous solvent)	 ①Clean ordinary floating dust: Wipe the surface of organic glass gently with a clean cloth moistened with solvent, or spray organic glass with a sprayer, then wipe with a clean cloth gently, and finally wipe with a dry cloth. ②Clean glue dust: coat little diesel oil on cotton cloth and gently wipe. If you don't have the diesel oil, you can handle it with the method of cleaning ordinary floating dust, watered 30% concentration medical alcohol. ③Small scratches treatment of organic glass' surface: Wipe the scratches gently for about 5 minutes by cotton with little toothpaste. 	Please do not use Acetone-containing solvents, Industrial alcohol, and strong alkaline solvent or acidic solvent to clean.

Table 8.1 Daily surface & internal cleaning



Area	Tools	Cleaning Methods	Notes
Tempered glass	 Clean and soft cloth Clean solvent (weak alkaline and weak acid solvent, like glass cleaning liquid "glassy water", 1% concentration soapy water, 30% concentration medical alcohol, vinegar, strong brine etc.) 	 Clean the ordinary floating dust: Wipe the surface of tempered glass gently with a clean cloth moistened with solvent, or spray tempered glass with a sprayer, then wipe with a clean cloth gently, and finally wipe with a dry cloth. Clean stubborn stains: Wipe with a clean cloth moistened with 30% concentration medical alcohol or warm vinegar; Or use glass cleaning solvent to clean. Clean surface frost: wipe with a clean cloth moistened with 30% of medical alcohol or brine. 	Please do not use strong alkaline or acidic solvent to clean.
Internal cleaning	 Clean soft cloth Air blow gun Stainless steel cleaner polish 	 Disconnect to power and then open the maintenance door. Use the blow gun to remove the internal dust and fines. The mechanical core, boards, switching power, gaps and bottom need to be cleaned specially, so as to ensure it's clean and dry. Use cloth to wipe the dust inside the cabinet and that on the mechanical parts. Dip another clean cloth with suitable amount of stainless steel cleaner polish to wipe along the lines of the brushed stainless steel surface of the maintenance door until it's clean and bright again. 	Don't use the dust catcher or air-heater

8.2 Product regular maintenance

Please pay attention to the following:

(1) Non-professionals are not allowed to open the turnstile housing cabinet to perform tests, maintenance or product services;

(2) It is forbidden to use hard objects to clean the turnstile surface, or it will be easily scratched.

(3) It is forbidden to use water to clean, or it will cause short circuits of the electric components and affect the normal usage of turnstile.

(4) It is required to check the connections of each interface on the mechanism periodically, so as to avoid the looseness of parts.

(5) It is required to use lubricants to lubricate the mechanism parts periodically.

(6) It is required to check the sockets and wiring connections periodically so as to ensure the stability of

wiring connections.

(7) It is required to check the ground connections of the electric system periodically so as to avoid electric leakage.

(8) After finishing the maintenance, please connect the turnstile system to power and close the maintenance door.

9. Product common troubles and trouble shootings

9.1 Indicator lights failure

When standby, the direction indicator turns red (as shown in Figure 9.1-1) and the running Light (RUN) of main control board is flashing at a frequency of one time per second, as shown in Figure 9.1-2; the infrared sensor status indicator of control panel on the main control board is often on as long as there is nothing to block the infrared sensor. Under IN & OUT Controlled Passing mode, when IN/OUT direction receives a valid open signal, IN/OUT direction indicator turns green, and OUT/IN direction indicator turns red.



图 9.1-1 通行方向指示灯实物示意图



图 9.1-2 闸机控制主板的运行灯(RUN)和红外探测器 状态指示灯实物示意图

Indicator light failures:

- > All the lights are off.
- > The direction indicator is abnormal.
- > The running Light (RUN) of main control board is not flashing.
- > All the lights are flashing.

- The infrared sensor status indicator light on the main control board is still on when infrared sensors are blocked.
- (1) All the lights are off.

Cause Analysis: malfunction of wiring connections, power supply or main control board

Troubleshooting: Check whether the wiring connection and power supply output are normal or not. If they are normal, then main control board might be damaged. If the wiring connection is abnormal, please fix the wiring connection. If the power supply is faulty, please contact us.

(2) The direction indicator is abnormal.

Cause Analysis: malfunction of wiring connection, main control board, direction indicator light .

- Troubleshooting: Check whether the wiring connection is normal, if it is abnormal, please fix the wiring connection; if the wiring connection is normal, then check whether the power supply of direction indicator light is normal; if the power supply is normal, the direction indicator light might be damaged; if the power supply is abnormal, the main control board might be damaged, please contact the manufacturer.
- (3) The running Light (RUN) of main control board is not flashing.
 - Cause Analysis: The main control board malfunctions or the toggle switch of communication panel has been switched to "UPDATE".
 - Troubleshooting: Check the toggle switch on communication panel of main control board and make sure it is at "WORK". And then restart the turnstile system. If the system still malfunctions, it proves main control board might be faulty. Please contact the manufacturer.
- (4) All the lights are flashing.

Cause Analysis: Short circuit or main control board is faulty.

- Troubleshooting: Check whether there exists any short circuits. If yes, please rule out and fix the wiring connections. If there's no short circuit, then it proves main control board might be faulty. Please contact the manufacturer.
- (5) The infrared sensor status indicator light of control panel on main control board is still on when infrared



sensors are blocked.

- Cause Analysis: wiring connections of infrared sensor and main control board are faulty, or infrared sensor malfunctions.
- Troubleshooting: Check whether the wiring connections of infrared detector and main control board are normal or not, if they are abnormal, please fix the wiring connections. If they are normal, check whether the power supply of infrared sensor is normal; if it is normal, the infrared sensor might be damaged, please contact the manufacturer; if the power supply of infrared sensor is abnormal, the main control board might be damaged, please contact the manufacturer.

9.2 System power failure

When standby, the POWER light on main control board is normally on. As shown in Figure 9.2.

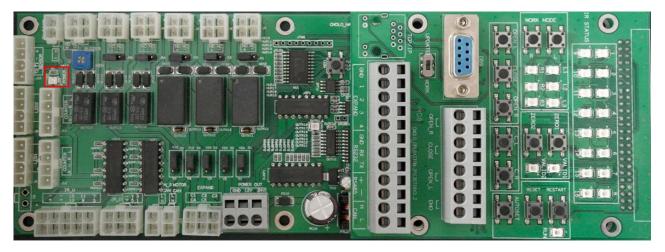


Figure 9.2 POWER light on the main control board

System power failures:

- > The 110-220V/AC power cable of turnstile system has been connected, but not electrified.
- >The POWER light on main control board is not ON.
- (1) 110-220V/AC power cable of the turnstile system has been connected, but not electrified.

Cause Analysis: The contact chip of the power socket is loosened or damaged; the 110-220V/AC power cables are damaged.

Troubleshooting: Check whether the contact chip of power socket is loosened or damaged. If yes, please repair or replace the socket. If the power socket is normal, please rule out whether the 110-220V/AC power cable is damaged. If yes, please replace the

110-220V/AC power cable. If the 110-220V/AC power cable is normal, please check whether the leakage switch is working normally. If not, please replace the leakage switch or contact the manufacturer. If the leakage switch is working normally, please check whether the output/input voltage of power supply module is normal or not and contact the manufacture with the feedback.

- (2) The main control board doesn't electrify and the POWER light on control panel is not ON.
- Cause Analysis: The switch power supply is damaged, the wiring connection between switch power supply and main control board is faulty, or the main control board is faulty.
- Troubleshooting: Check whether the switch power supply is damaged. If yes, please contact the manufacturer. If it is normal, please check whether the wiring connection between switch power supply and main control board is normal. If not, please repair the wiring connection. If the wiring connection between switch power supply and main control board is normal, then it is possible that the main control board is faulty. Please contact the manufacturer.

★Note: The above shows the common failures of the products. For troubleshooting methods of more failures, please refer to the special maintenance manual of the product.



Appendix

The turnstile main control board is shown as Figure A1.

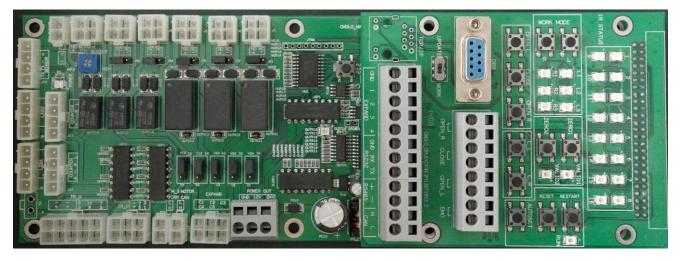


Figure A1 tripod turnstile Main Control Board

The electrical board installation distributions of turnstile is shown as Figure B1; the electrical wiring connection of turnstile is shown as Figure B2; The control panel instruction of main control board is shown as Figure B3; The wiring connection instructions of control panel external interfaces on main control board is shown as Figure B4.

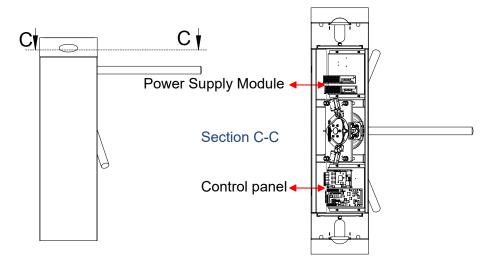


Figure B1 The electrical board installation distributions

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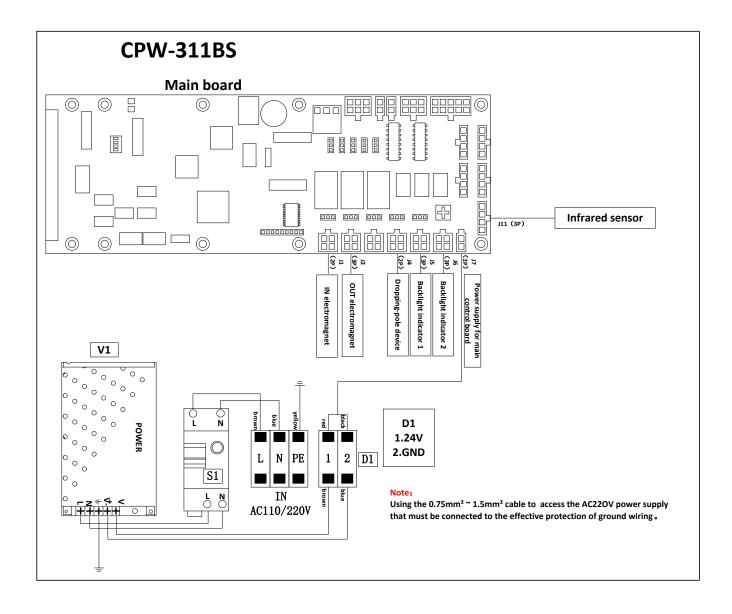
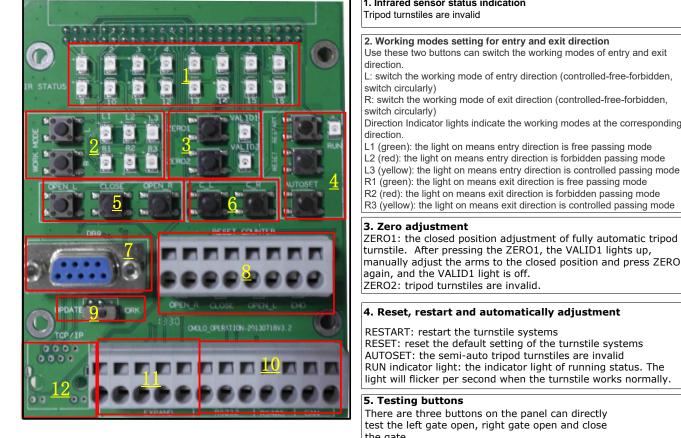


Figure B2 the electrical wiring connections of turnstile





9. Download protection lock

When the turnstile needs to download and upgrade the new program, please toggle the switch to "UPDATE" position, and then download and upgrade the program through 7. (DB9) interface.

Attention! When turnstile is normally working, user must toggle the switch to the "WORK" position.

10. RS232 RS485

The default communication interfaces of turnstile RS232 GND: Ground RX: RS232 receiving terminal TX: RS232 transmitting terminal RS485 +: RS485 + terminal -: RS485 - terminal

11.Extend input interface

Use it to achieve the extend function.

12. Ethernet Interface

Ethernet communication interface can be customized.

1. Infrared sensor status indication

Use these two buttons can switch the working modes of entry and exit

L: switch the working mode of entry direction (controlled-free-forbidden,

R: switch the working mode of exit direction (controlled-free-forbidden,

Direction Indicator lights indicate the working modes at the corresponding

- R3 (yellow): the light on means exit direction is controlled passing mode

ZERO1: the closed position adjustment of fully automatic tripod turnstile. After pressing the ZERO1, the VALID1 lights up, manually adjust the arms to the closed position and press ZERO1

RESET: reset the default setting of the turnstile systems AUTOSET: the semi-auto tripod turnstiles are invalid RUN indicator light: the indicator light of running status. The light will flicker per second when the turnstile works normally.

the gate.

OPEN_L: open gate at entry direction OPEN_R: open gate at exit direction CLOSE: tripod turnstiles are invalid

6. The reset button of counter

C_L: clearing entry counting C_R: clearing exit counting

7. DB9

1. Used for downloading and upgrading the firmware of turnstile control panel. 2. One of the default communication interfaces of turnstile

8. Turnstile dry contact control input

Use the switch signals such as relay signal and buttons and so on can control turnstile's opening & closing.

OPEN_R: entry direction open OPEN_L: exit direction open CLOSE: tripod turnstiles are invalid EMO: emergency open the gate (normally open signal); the effective signal less than 1 second is the arm-dropped testing.

Figure B3 the control board construction



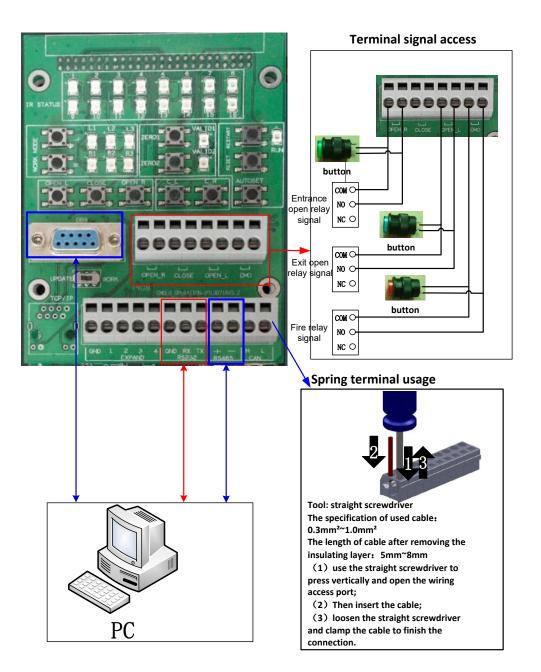


Figure B4 The wiring connection instructions of control panel external interfaces on main control board

★ Note: The product design and specifications are subject to change without prior notice.

