



Semi-automatic Tripod Turnstile

Manual



1. Product Introduction

Tripod Turnstile is generally used in simple dissuasion level access control of public passages. It is widely used in work attendance checking systems of factories, consumption systems of public institutions, access control of residential estates, ticket exit systems of scenic, sports and other arenas, hand key management systems of construction sites and so on. The mechanical part of the turnstile contains an emergency control device, which allows free passage in case of power fail. The turnstile has different optional configurations for the applications of all building conditions and for the control of all kinds of passage entrance-exits. Different identification systems (ID card, IC card, bar-code, hand key, fingerprint, iris, etc.) can be configured into the turnstile system. The turnstile can be connected to any kinds of controllers and various consumption devices.



2. Features and Functions

1. Rainproof housing, anti-corrosion coating iron or #304 stainless steel
2. CNC stamping and laser drilling, presenting a novel and elegant appearance
3. Innovative and unique mounting surface ensures simple and convenient installation for system system integration.
4. Direction can be set as single-direction or bi-direction
5. Direction indicator
6. Can be used with variety of card readers: IC / ID card readers, bar codes, fingerprints, etc. (Access controller needed)
7. Automatic reset function. Should the user fail to pass within the prescribed time (default time is 5 seconds), the system will cancel the authority of the current user automatically;
8. The mechanism is equipped with an automatic regulated hydraulic buffer device. There is no noise and impact when running.
9. Dual-bearing device, keeping the gate in balance when there is external force.

3. Technical Specifications

Item	Model	JKDJ-120C
Voltage		AC 220V/110V±10%
Frequency		50/60Hz
Current		3A
Control circuit:		DC24V
Power consumption		40W
Working temperature		-20° C~60° C
Working humidity		0~95%RH
Bar length		510mm
Arm Diameter		40mm

4. Control Interface



Two-Way (PASS1.PASS2) dry contact (or level) control signal input for controlling electromagnets and legal signal indicating lights at the in and out direction

Two-Way (FAL1, FAL2) dry contact (or level) status input for the control of illegal signal indicating light

Two-Way DC12V (DOOR1, DOOR2) legal connection, for connecting any kinds of controllers and various consumption devices

5. Turnstile Interior Module

1) The turnstile mechanical interior module is for manual pushing of the turnstile bar after the control of the turnstile is released; After a passenger passes the turnstile, another bar of the tripod stays still after it passes the hydraulic pressure cushioning device of the interior module. Then, another passenger can only be released (passing the turnstile) after the control of the turnstile is released again. Pushing of the bar only requires 0.5Kg force.

2) The interior module of the electronic turnstile consists of three parts:

a) Mechanical Part: (The mechanical structure has been installed and tested to be acceptable before it is delivered, so the user does not need to adjust it.)

b) Electrical Part:

Open-close Electromagnet: DC24V power supply, one piece of electromagnet at each of the left and right side. (For Two directions). For unidirectional usage, only connect the power supply at one side)

Bar Dropping Electromagnet: DC24V power supply(The position of the electromagnet can be adjusted.)

Micro-active Switch: (Travel Switch) When the bar of the turnstile turns 120 degrees, the micro-active switch will transmit the reset signal to the control board, and then the control board sends instructions to reset the turnstile. (One passenger passes)

c) Cushioning Device: An oil buffer (Model: AD1410-5) made in Taiwan is used. The buffer can be used to adjust and control the reset speed of the turnstile bar. When the bar turns too quickly and there is bumping noise, change the value of it from small to large (0-8) until sound result is obtained. The turnstile has been adjusted and tested to be acceptable before it is delivered. After it is used for a certain period and somewhat large bumping noise is heard, you can adjust the buffer appropriately.

6. Decorative Facing Cover:

For Tripod Turnstile, two decorative facing covers are installed at each side of the housing. The covers are made by 50mm thick PVC materials.

On the standard decorative cover, the words “**Please put in your card here**” are printed using silk-screen printing method. The background of the decorative cover is white, and other words can also be printed as may be required by customers. The system integrator can install different user interfaces according to the users’ requirements, such as IC card reader, magnetic card reader, fingerprint scanner, status indicating light, exit button equipment, etc.

Size of the Decorative Cover: 200mmX90mm



7. Operating Instructions (Wiring Diagram Attached):

The Tripod Turnstile has three different operating modes:

- 1) Always Free Passing (Barrier Free Passage)
- 2) Mechanical Entry Control (Manual Unidirectional Passage)
- 3) Electric Driving Entry Control (Intelligent Passage through Identification by means of IC, ID, Bar-code, etc.)

Each of the above three operating modes has an emergency design: when there is a power failure, the tripod bar at the level position will automatically drop to ensure free passage through the turnstile. (Satisfying requirements of fire control security).

4) After you fix the turnstile at the installation site (refer to the following installation diagram), firstly connect AC220V power supply to the switch-mode power supply (L-AC, N-AC), and connect ground wire to PG pole. Switch on the power supply and check if the power indicator light (LED on the control board) is on. Find the test buttons (S1, S2) on the control board, and then check if the indicating direction of the indicator light is correct, and if the turnstile bar can turn. If the indicator light is ok and the turnstile can turn, it means the turnstile is ready for normal operation.

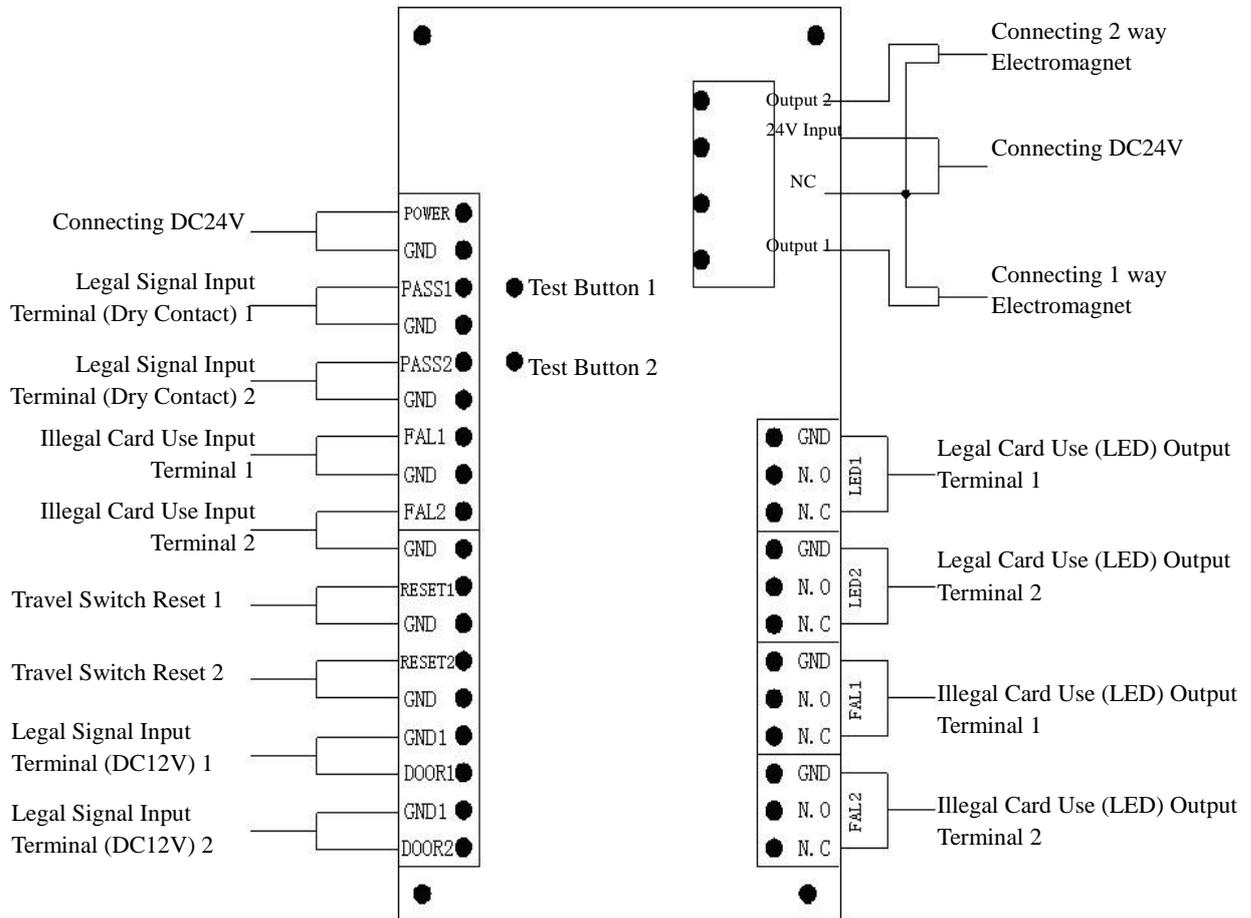
5) Connecting access controller: Put the controller on the mounting plate of the turnstile and fix it, connect it to the card reader and power supply, and then connect the controller's electric lock output terminal to the PASS1. PASS2 terminal or DOOR1, DOOR2 terminal of the control board. (If the electric lock terminal is a dry contact, connect the terminal to PASS1. PASS2; if the electric lock is of DC12V output, connect the terminal to DOOR1, DOOR2.)

Note: The DC12V input of the access controller must not be connected to the PASS1.PASS2 terminal of the control board.

6) Networking of access controller: (To be carried out by the customer)



Wiring Diagram:



8. Work to be Carried out by the Customer: (Installation Diagram Attached)

Single-Phase 5A 220V power supply, grounded to the connecting line of the control equipment.

(Connect the controllers' dry contact (or level) control signal to PASS1 or PASS2) or (Connect DC12V output to DOOR1, DOOR2 terminals).

Installation:

1) Civil Engineering Works:

Use GB (Chinese Standard) 405# Portland cement concrete to build foundation with thickness from 10CM to 15CM. The installation can be carried out five to seven days after the concrete foundation is built.

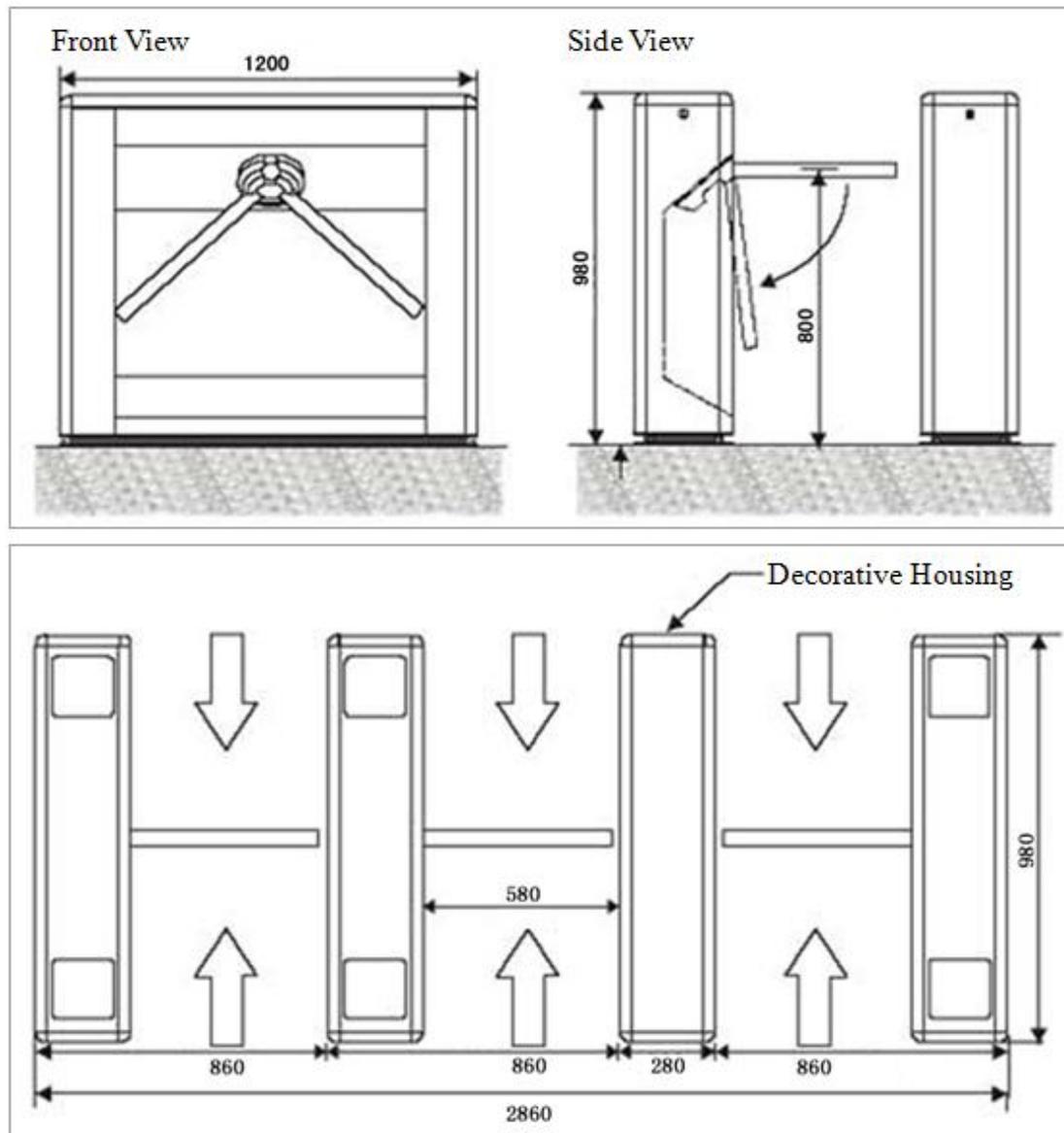
2) Fixation

Use the key to open the turnstile base plate and there are four 12mm holes inside the base. Use four 8mm*10mm expansion anchor bolts to fix the base.

3) Installation Dimensions: (Refer to the following diagrams)



9. Installation Diagram:



Unit: mm

10. Service Commitments

1) Prepurchase Service:

- A) Offer users counselor and consultant service related to the turnstile.
- B) On the basis of comprehensive consideration of the specific layout, environment and power supply conditions, propose reasonable design schemes to customers, striving for best price value.

2) Sales Service:

- A) Assemble and adjust the equipment system to reach the best conditions.
- B) Offer free training to users to help them establish the ideas of properly using the equipment and



offering service.

Help users to establish a management system for the turnstile system.

3) After sales Service:

A) Supply various consumable materials.

B) Periodically carry out inspection by telephone calls and provide advice and maintenance.

C) The warranty period of the turnstile is one year after installation. Lifetime maintenance will be provided after the one year warranty period expires. Once there is any failure arising during the operation of the equipment, please dial our service phone number for technical advice; If the problem cannot be solved through telephone call, our company shall, when considered as necessary under the circumstances, send technical personnel to the site to carry out maintenance and repair. (The traveling cost shall be borne by the user)

After sales Service Hot-line: +86-755-28408621

Product Warranty Card

Warranty No.:

Product Description:		Product Model:	Manufacturing Date:
Product Serial No.:		Warranty Period: Refer to the Following Service Commitments:	Purchase Date:
To be Filled in by the Customer	Name of Customer:	Company Name:	Tel:
	Post Code:	Email:	Fax:
	Address of Customer:		Seal
Seller	Name of Agency or Distributor:	Tel:	
	Address		

Dear Customer:

Thanks a lot for your selection of our company's products. Our company not only provides quality products, but also offers superior after sales service support. If any question arises in the operation, please call the service support hot-line of our company. Our engineer will be glad to answer your questions. Thanks again for your trust in and support to our company and our product.

Our company offers one year warranty for the sold products:

Rules of Warranty



A) The one year warranty covers any failure due to manufacturing factors provided the product is used under normal conditions (except as stipulated otherwise by the warranty card). The warranty does not cover housing, accessory and consuming parts. In case a failure of any of the above products takes place, our company shall provide service under warranty to the products with failure and the service shall be free of charge.

B) To receive service under warranty: The customers shall notify the customer service agency of our company before the warranty expires and shall present valid warranty card when requesting service under warranty.

C) The following circumstances are not covered by the warranty:

- a) Any damage or failure incurred by disasters/accidents (such as: fire, earthquake, etc);
- b) Any failure arising from improper operation not satisfying requirements, or from use under unaccepted working environment and conditions;
- c) Any failure arising from the repair, or replacement /adding of parts of the products by any person not authorized by our company;
- d) Any damage (such as finish damage) arising from improper transportation after delivery.

D) Our company denies any other commitments of any form not recognized by our company. Our company is only responsible for repairing or replacing as per related stipulations the product with failure certified hereunder.

Construction Case

