ZKTeco

Installation Guide

TS1000/2000 Pro series tripod turnstile

Version: 1.0

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Chapter 1 Installation

1.1 Installation conditions

When installing the tripod turnstile against the wall, please reserve at least 100 mm space for opening the cover. As shown in Figure 1-1.
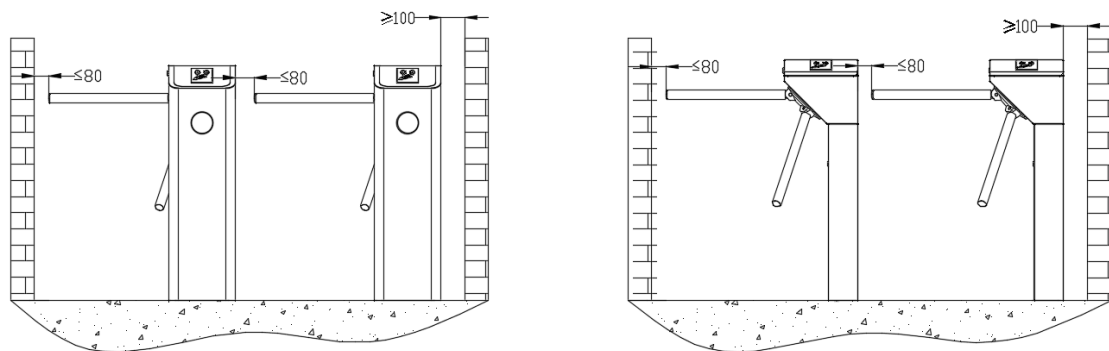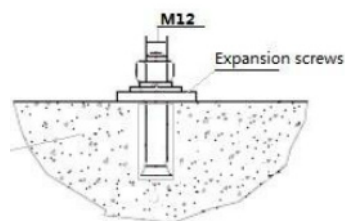

Figure 1-1

1.2 Cabling

Power supply and communication wire are suggested to deploy underground then into the cabinet of device.

1.3 Drilling holes

Drill holes according to the locations of the screw holes.

1.4 Fix the device

Fix the device on the ground with 4 expansion screws.

Note: The tripod turnstile must be connected to the Ground (earth); there is wiring interface near the power switch.

Chapter 2 Installation Notes

In order to prevent the arm from damaging during transportation, the arm will not be initially installed to the devices.

1. Put the arm into the hole of cabinet; make sure the screw holes match with mechanism core, then tighten 3 hex screws, as shown in Figure 2-1.
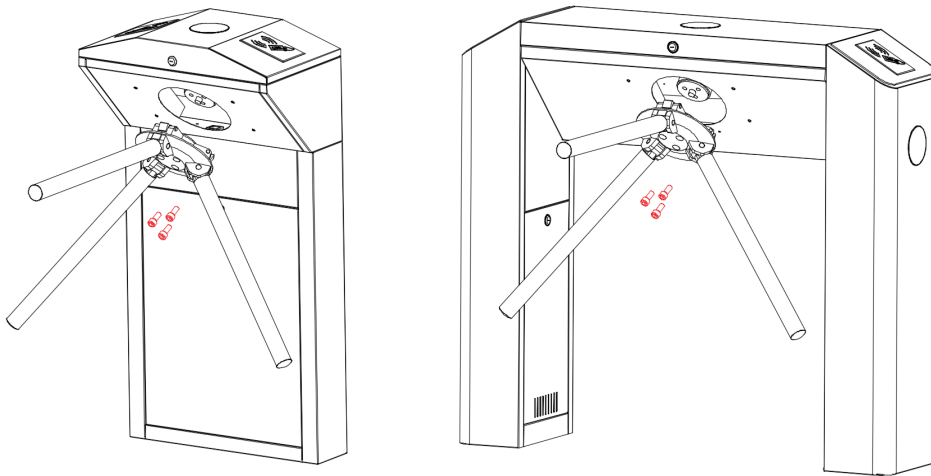

Figure 2-1

2. Please make sure that the power requirements are strictly met to avoid permanent damages to the unit. Input voltage: AC 100~120V /200~240V.

3. Power on and wait 30s for the tripod turnstile to finish the self-check program.
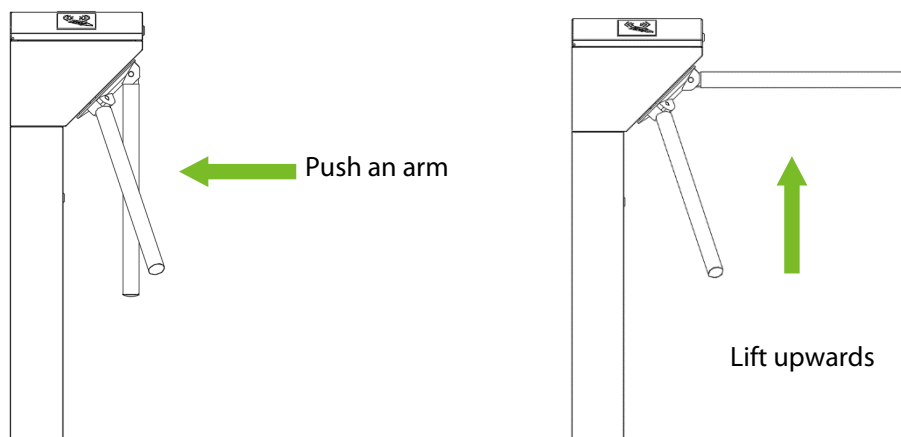
4. Lift the arm manually, as shown in Figure 2-2.

Push an arm

Lift upwards

Figure 2-2

Note: If the arm cannot be lifted, please push the arm towards the cabinet first, then lift the arm manually.

Chapter 3 Control Board Introduction

3.1 Function description of the turnstile control board

If you are using a standard device without an RFID or fingerprint reader, you need to connect an access control system to the main board; please check the content in this chapter carefully.

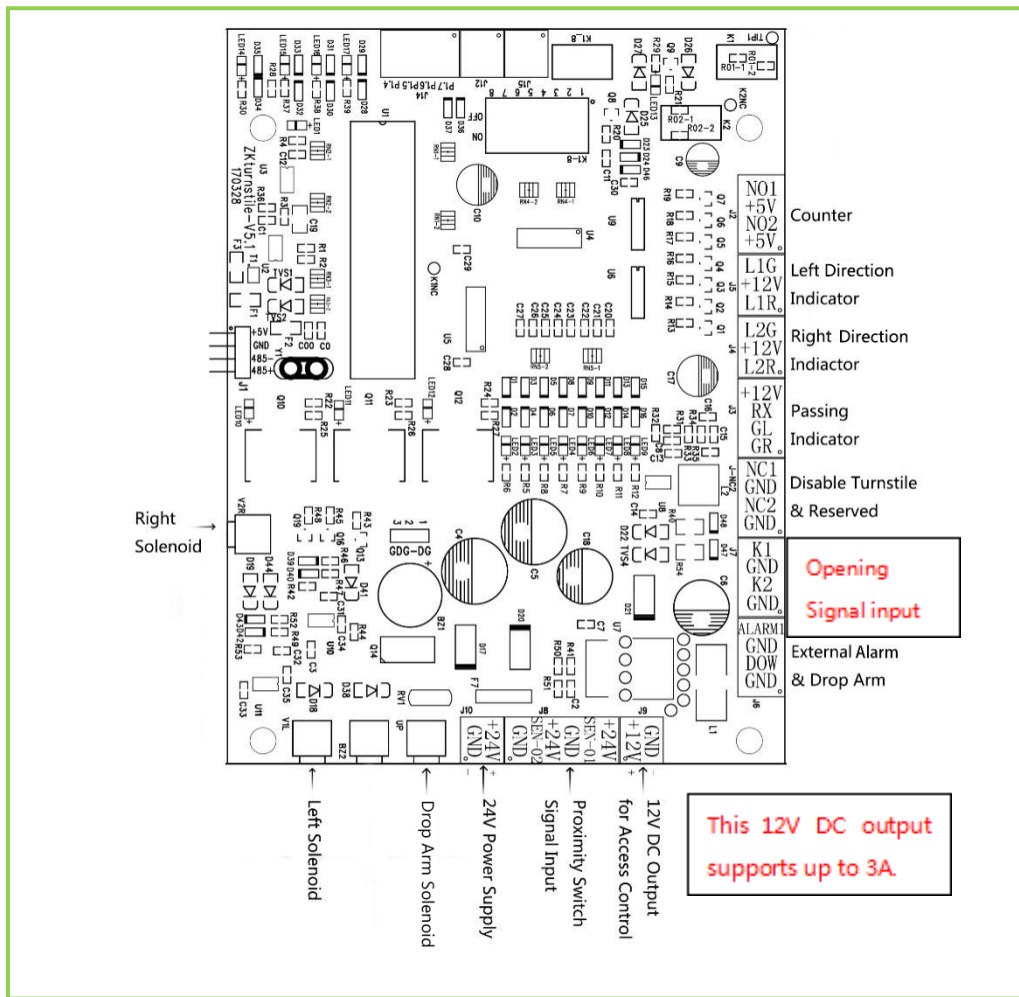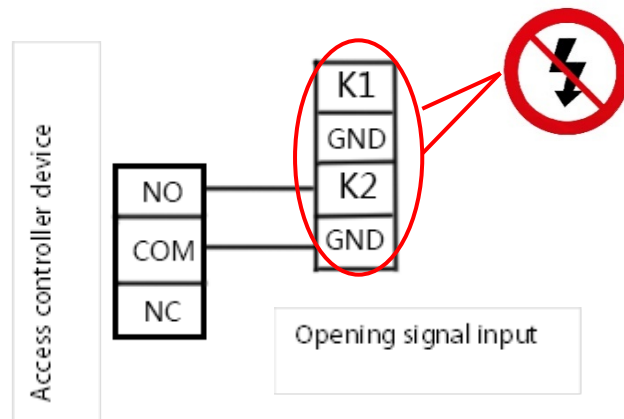Turnstile control board's diagram as shown in Figure3-1

Figure 3-1

Note: The third-party access control system's lock-relay-trigger-time should be 1 second or less than 1 second.

3.2 Connection diagram of the access controller

Note: The lock relay duration of an access controller device needs to be set to 1s. Do not use electrically charged objects to connect to the port of Opening signal input, otherwise it will damage the control board.

Chapter 4 Maintenance

Forming maintenance consciousness

The tripod turnstile needs to be maintained regularly and repaired once it is damaged. It is recommended placing warning signs at conspicuous positions for alerting every passersby to pass carefully and in good order. Reasonable maintenance consciousness helps to guarantee long-term usage of the tripod turnstile.

Regular maintenance

Cleaning and protection liquid dedicated for stainless steel are recommended to wipe the outer shell of the equipment regularly. The tripod turnstile used outdoors or in an environment with lots of dust must be maintained at least once a year, for example, clean up the dust and add appropriate lubricating oil to the disk wheel. Please note that regular maintenance should only be performed after power-off, as shown in Figure4-1.
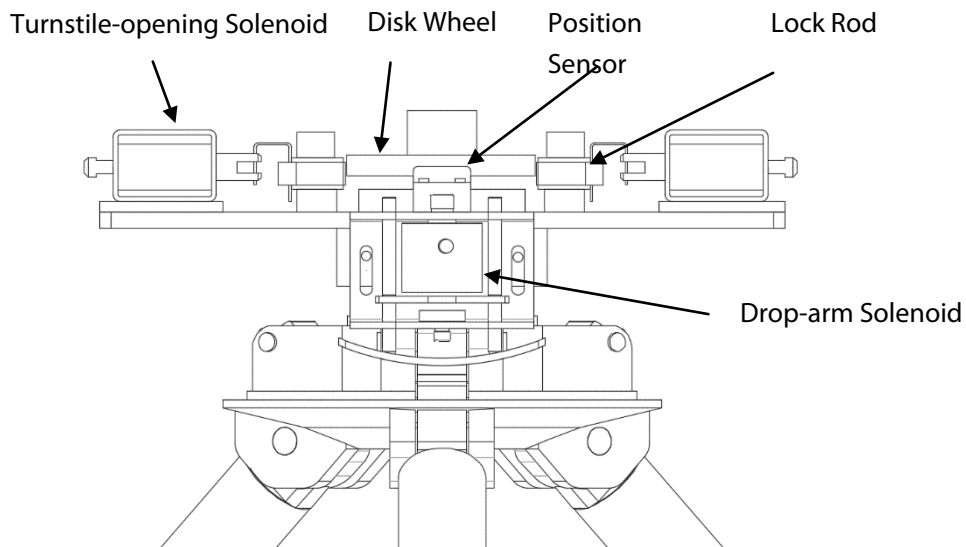

Figure 4-1

Chapter 5 Troubleshooting

Symptom	Troubleshooting
The indicator is not lighted when the equipment is powered on.	It may be caused by the power supply or circuit. Check whether the connection cable and power cable are damaged, or whether the wiring is loosed.
The arms of the tripod turnstile cannot be lifted manually after the equipment is powered on.	It may be caused by the problem of related components or drop-arm solenoid. Check whether the drop-arm solenoid is operating, and check the working status of the solenoid, as shown in Figure 4-1.
The tripod turnstile does not grant an access after successful authentication.	It may be caused by lack of permission or a circuit problem. 1. Check whether the user has the permission to pass. 2. Use a multimeter to check whether the NO and COM ports of the access control system have a relay signal output. 3. Short-circuit the ports "K1, GND" and "K2, GND"; if the turnstile is successfully opened, please check the access controller.
The turnstile allows people to continuously passing one-way side.	1. Check the turnstile-opening solenoid. 2. Check if the access controller "Lock driving duration" is set to 1s. 3. Check whether the turnstile-opening solenoid is operating and check whether something is stuck at the turnstile-opening solenoid, as shown in Figure 5-2.