# HIKVISION

DS-K3G201 User manual Ver1.0-20210628

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# Chapter 1 Overview

## 1.1 Introduction



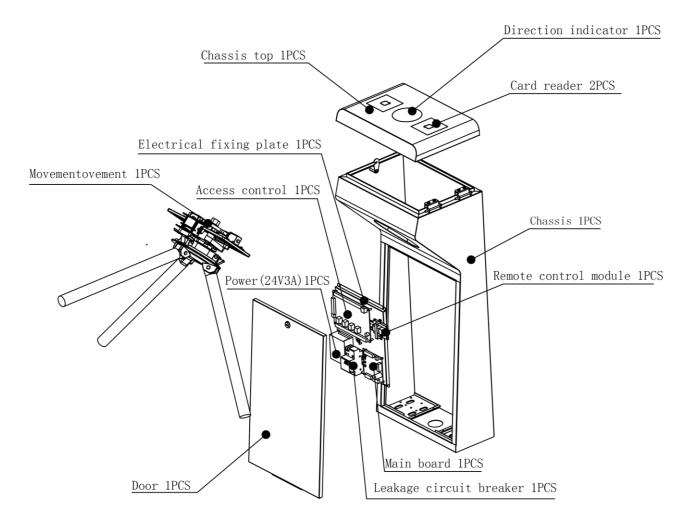
DS-K3G201 series is stamped and formed by sus304 stainless steel plate, beautiful in appearance, sturdy and durable, not easy to be damaged by external force, can be connected with card reader, face recognition terminal, etc., dedicated to the entrance and exit of the construction site.

# Note

Different product models will have different hardware configurations and appearances.

#### 1.2 Main structure

The product structure is shown in the figure below. The turnstile is mainly composed of mechanical parts and electronic control parts.



## 1.2.1Mechanical parts

A card reader space and direction indicator space are reserved on the top of the box. The main components of the movement are rod-falling electromagnets, telescopic electromagnets, frame, drive shaft, three-roll turnstile roller, etc.

## 1.2.2 Electronic control parts

The electronic control part is composed of a card reader, a main board, a direction indicator board, a leakage circuit breaker, etc.

#### Card reader

Read the card number information, send the read information to the access controller and verify the access control authority.

#### Main board

The control center of the system, which receives the signals from the access system, performs logical judgment and processing on these signals, and then sends execution commands to the direction indicator, electromagnets, counter etc...

#### **Direction indicator**

Display the current status of passage signs and guide pedestrians to pass through the passage safely and orderly.

# Chapter 2 Installation

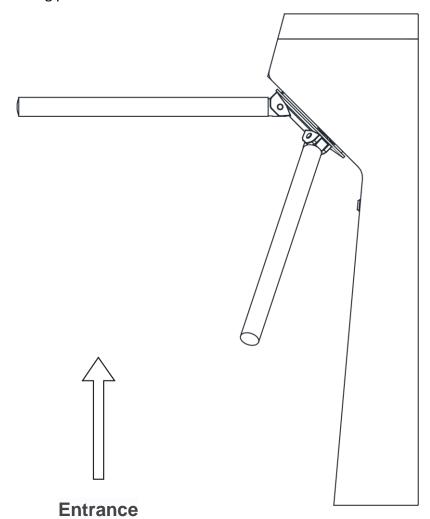
# 2.1 Install pedestals

#### **Before You Start**

Prepare for the installation tools, check the device and the accessories, and clear the installation base.

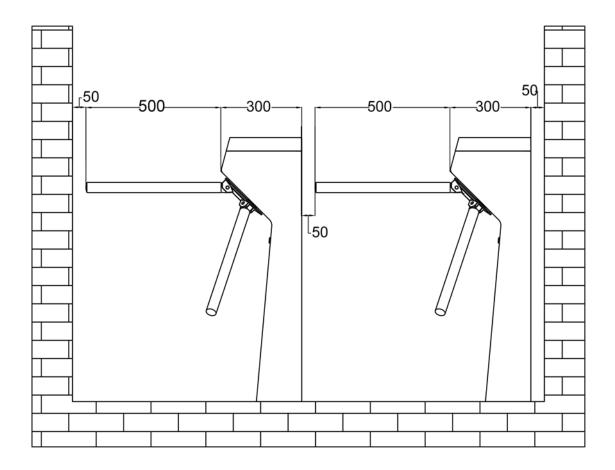
## 2.1.1Entrance direction diagram

The installation position of the turnstile is installed on the right, which is convenient for the right hand to swipe the card to move forward. The entrance direction corresponds to the left opening of the motherboard wiring port, and the exit direction corresponds to the right opening of the motherboard wiring port.



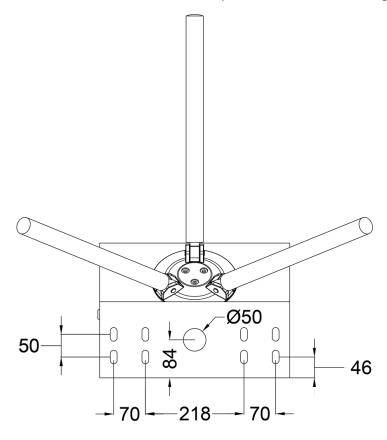
# 2.1.2Installation diagram (against the wall)

The device should be installed on the concrete surface or other non-flammable surfaces. No face recognition terminal installed: If the installation area is too close to the wall, make sure the distance between the pedestal and the wall should be more than 50 mm, or the surface may be scratched.



# 2.1.3Turnstile installation hole diagram

The size of the expansion screw should be M12. The length of the expansion screw should not be less than 120mm. It is recommended to use the expansion screw with a length of 120mm.



# **Chapter 3 General Wiring**

# 3.1 Wiring Electric Supply

The turnstile supports wiring the AC electric supply for the whole system's power supply.



The voltage fluctuation of the electric supply is between 100 VAC and 220 VAC, 50 to 60 Hz. Usage about steps and lists are illustrated as follows.



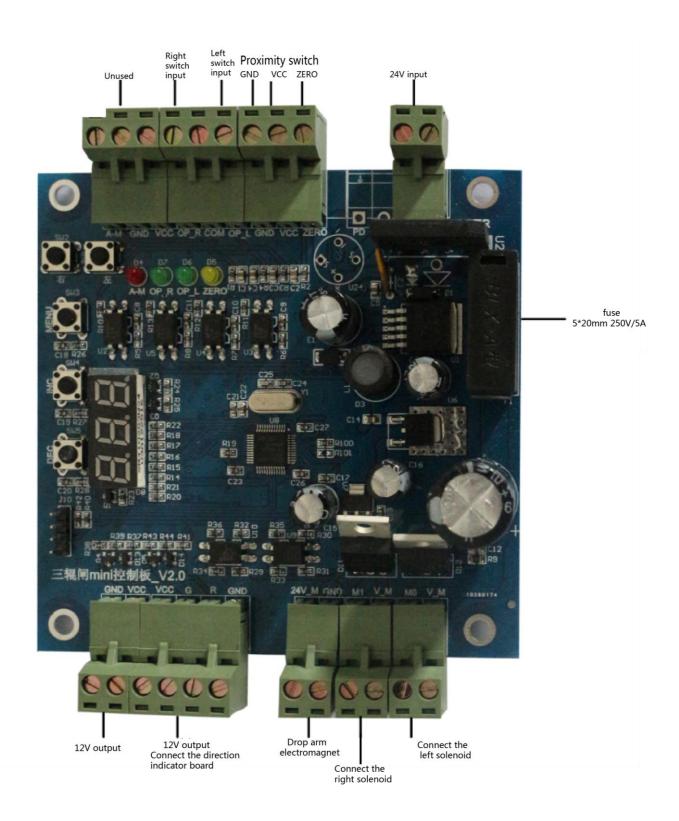


Terminal PE should connect to a ground wire to avoid hazard when people touching the device.

### 3.2 Access control connection

The access control panel of the turnstile can realize the two-way function of in and out. The external access control board needs to have the relay output function. The connect interfaces of external access board is shown in the figure below;

The place marked by the red box is the external relay output signal connection. No distinction between positive and negative wiring.



# Chapter 4 Mainboard instructions

# 4.1 Main Board Description

## 4.1.1Motherboard interface

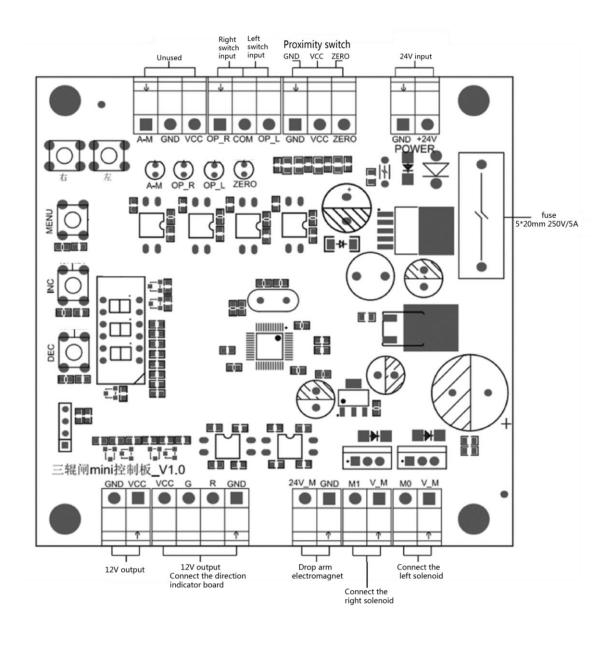


Table 4-1 Main Board Description

No.	Interface	Description		
1	Power in	DC 24V power supply		
2	ZERO/VCC/GND	Arm position detection, when triggered the Magnet magnetic recovered, arm locked.		
3	OP_L/COM	Entrance direction open		
4	OP_R/COM	Exit direction open		
5	VCC/GND	DC 12V power out		
6	VCC/G/R/GND	direction indicator control		
7	24V_M/GND	Drop arm electromagnets connection		
8	M1/V_M	Exit direction electromagnets connection		
9	M0/V_M	Entrance direction electromagnets connection		
10	MENU KEYS	[MENU], [INC], [DEC] for debuging		

# 4.1.2Function key function description

Table 4-2 Function Key description

Key name	Description		
MENU	1. Press this key in the standby interface to enter the system menu		
	2. In the system menu interface, select the corresponding menu and 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	Scroll up to select the system menu and add 1 function when setting parameters		
DEC	Scroll down to select the system menu and the function of subtracting 1 when setting parameters		
Remark	In the system menu and menu setting interface, if there is no key operation within 5 seconds, the system will automatically exit the menu to the standby interface.		

## 4.1.3Operation example description

For example: to change the operation time of the turnstile opening time.

- Step 1 Press the [MENU] key to enter the system menu, use the [INC] and [DEC] keys to scroll up and down to select the "F\*\*" menu.
- Step 2 Press [MENU] key to enter the door open duration setting interface.
- Step 3 Use [INC] and [DEC] keys to increase and decrease the parameter value up and down respectively.
- Step 4 After setting, press [MENU] key to save.
- Step 5 Exit the menu: select the menu to the "F07" menu, press the [MENU] key to manually exit the menu or automatically exit the menu without operating the button for 5 seconds.

## 4.2 Menu introduction

Table 4-3 Menu description

MENU No.	Value range	Default value	Description
F-01	0-255	5	Turnstile door open time duration
F-02	0-4	0	0: All allowed 1: All prohibited 2: Left opening is prohibited, right opening is allowed 3: Right opening is prohibited, left opening is allowed
F-03	0-1	1	Working mode:  0. Free passage  1. Authorized passage
F-04	0-1	0	Memory function: For example, if you swipe the card 5 times, you can pass 5 people.  0. off 1. on
F-05	/	/	Test mode: enter the menu to start automatic left-open right-open uninterrupted test

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F-06	0-1	0	system initialization
			0. Exit
			1. Initialize the system
F-07	/	/	Press menu in this interface to exit the setting mode and return to the initial interface

# Chapter 5 Maintenance

The main element of the turnstile is stainless steel, which is rustless (antioxidant) and corrosion resistant (The anti corrosion ability in the medium of acid, alkali, and salt). In order to keep the stainless steel from being oxidized or corroded, you should clean and care the turnstile surface periodically .

The instructions and tips for maintaining the turnstile are as follows:

- Select different stainless steel types according to the variety of the environments. You
  can select 304 stainless steel for Common circumstances and 316 stainless steel for the
  scenarios of seasides and chemical plants.
- Keep the device surface clean and dry.
- Use non-woven cloth and ethyl alcohol to clean the dirt on the device surface.
- Use sourcing pad (do not use mesh cleaning ball) to clean the rust on the device surface by following the wire drawing on the stainless steel. And then use non-woven cloth and stainless steel cleaner to wipe the device surface.
- Clean and maintain the device by using non-woven cloth and stainless steel cleaner periodically. It is suggest to clean the device every month in common circumstances and every week for severe environments (seaside and chemical plants for instance).

