PRO200 Series

Single Lane Flap Barrier Turnstile

The PROTEC PRO200 single lane flap barrier turnstile is an elegant cost-effective entrance control system designed for high-traffic volume.

The PRO200 is a single lane flap barrier turnstile series designed for smooth and silent operation and drawsvery little power.It's made of stainless steel which makesPRO200 highly durable.

PRO200 barriersare normally held in a locked position,thus denying access to the secured side. Upon PRO200's reader (RFID and/or fingerprint) positively recognizing a user's valid access card or fingerprint, its barriers retractupward automatically, thus allowing userspassage to the secured side.

During emergencies the barriers automatically retract upward, therebyensuring users FAST unencumbered exit to safety. A battery for power outage safety can be installed for retracting the barrier automatically.

PRO200 provides both securityand convenient space, all in a very durable and elegant compact design.

Features

Reliability

- SUS304 stainlesssteel casework ensures long-lasting durability.
- High quality electrical components.

Safety Features

- Barriers retract automatically during emergencies.

- Barriers retract automatically during power outagewith battery installed.
- All smooth finish. No exposed screws.
- Ergonomic design makescard and fingerprint. Authentication fast &simple for users.

Built-in ReaderIntegration

- PRO200 series ships already integrated with our customers' preference for either card or fingerprint access control reader. This greatly reduces installation time & expense.
- PRO200 seriesand associated access control readersare all factory-tested prior to shipping.
- PROTEC provides true plug & play turnstiles with the lowestpossible total cost of ownershipin the industry.

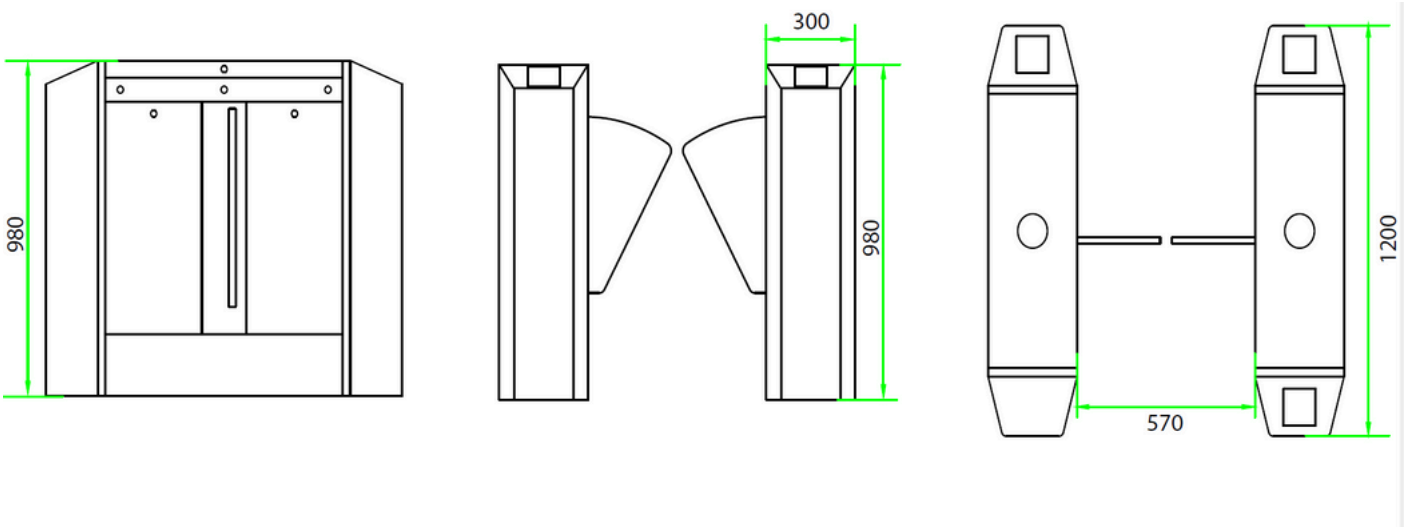
Simplification

- LCD on the flap barrier controlboard, easy operation.

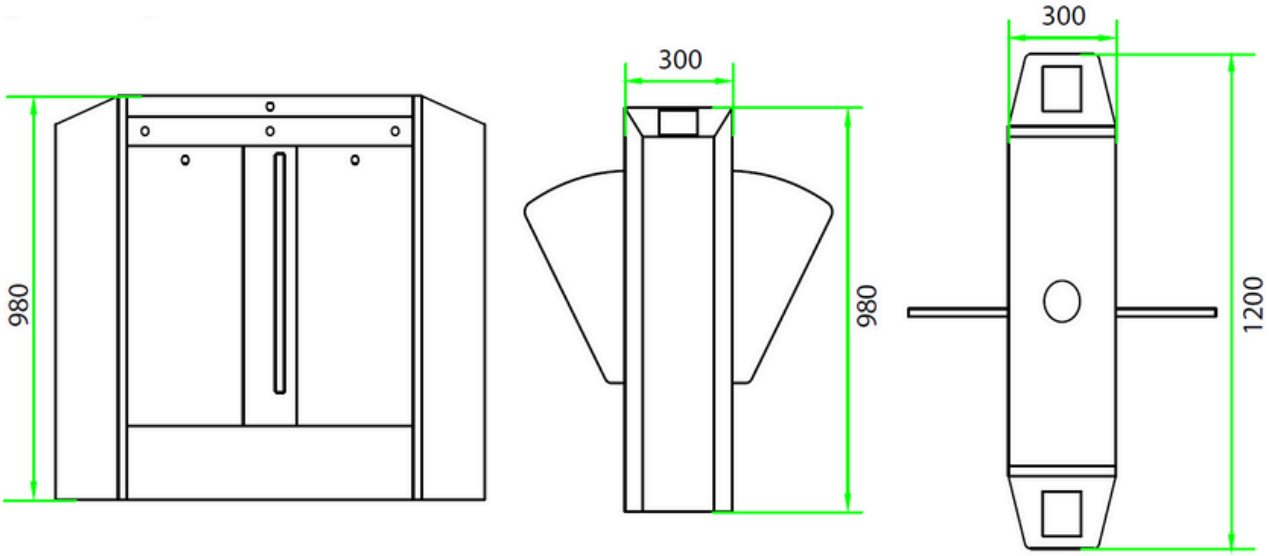
Specifications

Power Requirements	AC100 ~ 120V/200 ~ 240V, 50/60Hz
Working Temperature	-28°C ~ 60°C
Working Humidity	5% ~ 80% (non-condensing)
Working Environment	Indoor/Outdoor (if sheltered)
Max. Speed of Throughput	30 people per minute
Lane Width (mm)	570
Dimension (L*W*H)	1200 * 300 * 980 (mm)
LED Indicator	Support
Cabinet Material	SUS304 Stainless Steel
Lid Material	SUS304 Stainless Steel
Barrier Material	Acrylic
Barrier Movement	Retracting
Emergency Mode	Support
Security Level	Medium
MCBF	2 million
Opening Time	0.8s
Noise of Opening	≤30dB

Single Lane Flap Dimension (mm)



Duel Lane Flap Dimension (mm)



Menu Introduction

Button Description

There are 5 keys on the control panel, "MENU", "▲", "▼", "ENT" and CANCEL.

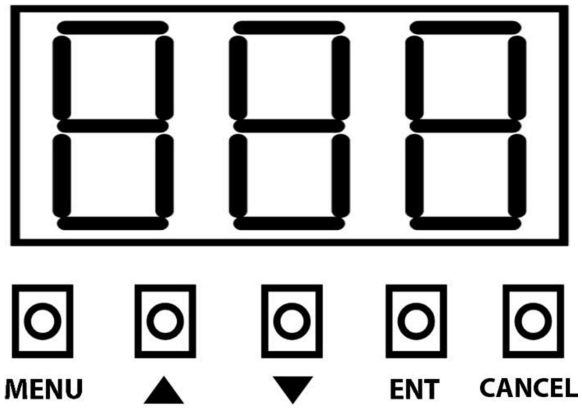
MENU: It is used for accessing the settings menu.

▲: It is used to scroll up menus and increase parameter/value.

▼: It is used for flip down the menus and decrease parameter/value.

ENTER: It is used for confirming the current modified value.

CANCEL: It is used for return to the previous menu level or cancel the current operation.



Menu operations:

Press "MENU/ENT" button to enter the password input interface, the default password is: ▲▲▼▼▲▼. Enter the 6-digit password, press "ENT" to enter the system menu. After entering the menu, press "▲" "▼" to select a function menu and then press " MENU/ENT" to enter the function or value change interface, select or adjust to the corresponding value by pressing the "▲" or"▼". button

Example: To change the gate working mode: enter the menu, select "**Working Modes of the Turnstile**" in the menu → press "MENU/ENT" (display the current working mode) → press "MENU /ENT" again to enter the interface of modifying the working mode → press "▲" or "▼" to select the corresponding working mode → press "MENU/ENT" to modify successfully → press "CANCEL" to exit after setting is completed (if you don't press "CANCEL", the system will exit automatically after 15 seconds).

Note:

1. The default state is displayed on the LCD screen after the turnstile control board is powered on, and the default state shows the "working mode" of the control board at this time (single

swing barrier, double swing barrier and flap barrier), as well as parameters such as the number of passes outbound and inbound.

2. There are 4 buttons on the new flap barrier turnstile control board, "MENU/ENT", "▲", "▼", "CANCEL". ("MENU /ENT" is used as menu key and OK key)

3. The standard flap barrier turnstile control board has 5 operation buttons, "MENU", "▲", "▼", "ENT" and "CANCEL".

Turnstile Control Board's Wiring Instructions

First set up the type of turnstile control board (single swing barrier, double swing barrier and flap barrier), facing the turnstile to do wiring operation, whether it is the master board or slave board, with the left proximity switch connected to the left to limit, the middle to the zero position, the right to the right to limit (Note: flap barrier only 2 limits, zero and left to limit). Facing to the master board, the left infrared connected to the left infrared, the middle to the anti-pinch, and the right to the right Infrared. Motor line was randomly connected to the power to see which side of the motor steering is not the right side of the motor line.

Parameter Settings Description

Items	Description
L-1	**Inbound and Outbound Direction Configuration** Set whether the left side of the turnstile is the inbound or the outbound; the right side is the inbound or the outbound.
L-2	**Inbound and Outbound Access Control** Set whether both sides of the turnstile (inbound and outbound) are allowed to pass or not (all allowed by default). • Left forbidden, right allowed • Left allowed, right forbidden • All forbidden • All allowed

L-3	**Working Modes of the Turnstile** Set the turnstile opening method, for infrared opening, or swipe the card/press the fingerprint to open (Default all swipe card/ press the fingerprint). • Infrared on left, swipe the card/press the fingerprint on the right • Swipe the card/Press the fingerprint on the left, Infrared on right • Infrared on left and right • Swipe the card/Press the fingerprint on the left and right
L-4	**Inbound/Outbound Memory Function Configuration** When opening or closing the inbound/outbound pass whether it has memory function, which is generally used for swiping the card/pressing the fingerprint to open the gate, in the case of one person swiping the card/press the fingerprint has not passed, whether the memory of other people swiping the card/press the fingerprint. "Without" means the first person swipe the card/pressing the fingerprint through, the second person swipes the card/pressing the fingerprint to be effective; "With" is how many people swipe the card/pressing the fingerprint that allows the number of consecutive people through
L-5	**The Opening Time of the Inbound and Outbound (Unit: second)** Set the length of time after the gate is opened and no one passes, the gate will automatically close (default 5 seconds, maximum 999 seconds).
L-6	**Counter Reset** Clear the number of inbound/outbound passes and recount.
L-7	**Device Machine Number (Only with communication motherboard)** The device number of the turnstile control board.
L-8	**Device Information** Display basic information about the turnstile control board, such as type, model, and other information (e.g., YBZ-5.0SE)
L-9	**Gate Type** Set the type of gates, there are three types of gates: "flap barrier", "single swing barrier", and "double swing barrier"; what turnstile should be set to the corresponding type to work properly. The default is "double swing barrier " type.

L-10	**System Initialization** Initialize the turnstile control board parameters. After successful initialization, the turnstile control board parameters are restored to factory settings.
L-11	**Left Passage Voice** Set the voice to be played by the channel when passing from the left. For example, you can set the turnstile to play "Welcome" when you pass from the left.
L-12	**Right Passage Voice** Set the voice to be played by the channel when passing from the right. For example, you can set the turnstile to play "Have a safe trip" when you pass from the right.
L-13	**Illegal Entry of Voice** When unauthorised entrance is detected, an infrared voice can be set on the left and right sides.
L-14	**Motor Opening Speed** When the motor opens the gate, it is used to set the running speed, the smaller the value, the slower the speed. Separate speeds can be specified for the master and slave motors.
L-15	**Motor Closing Speed** When the motor closes the gate, it is used to set the running speed, the smaller the value, the slower the speed. Separate speeds can be specified for the master and slave motors.
L-16	**Maximum Motor Runtime** Set the maximum time for the motor to run at one time, (when the turnstile control board has a fault due to external detection or other original no signal) to prevent the motor from idling all the time, the default is 3s.
L-17	**Infrared Stacking Time (Unit: second)** Set the time allowed to block 2 infrareds at the same time, due to the short spacing between some turnstile infrared (such as the left infrared and anti-pinch is very close), to prevent the human body from blocking 2 infrared voices at the same time will be a false alarm.

L-18	**Delay Closing Time (Unit: second)** It is used to set how long to close the gate after pedestrians pass through the gate normally, the default is 0, no delay, that is, the gate will be closed immediately after pedestrian pass through.
L-19	**Swing Barrier Power Failure Opening Direction** In the swing barrier mode, you can set which direction the gate opens after power failure.
L-20	**Flap Barrier IR Setting** This function can be set in the flap barrier mode for pedestrian to pass the last pair of infrared gates or to pass the anti-pinch infrared gate. (Default over the last pair of infrared gates)
L-21	**Illegal Entry Setting** You can set the gate to close the gate or not when the gate is opened after the reverse direction of passage. (The default is not to close the gate to prevent pinching)
L-22	**Normal Open** The system forces the gate to be open when the received signal is greater than the set value, until the received signal is less than the value when the gate is closed.
L-23	**Swipe Card Setting on Alarm** Allow swipe card or not allow swipe card when illegal entry.
L-24	**Anti-tailgate Sensitivity Setting** Can be set according to the user site when more than one person through the gate, the trailing distance, the smaller the value the higher the sensitivity.
L-25	**Turnstile Test** Repeatedly open and close the gate test, mainly for testing the stability of the gate control board and aging test.

Note:

1. No peripherals may be added to the system without permission.
2. During commissioning, if the commissioning results do not match the stated function, please refer to error code and troubleshooting.

Error Code and Troubleshooting

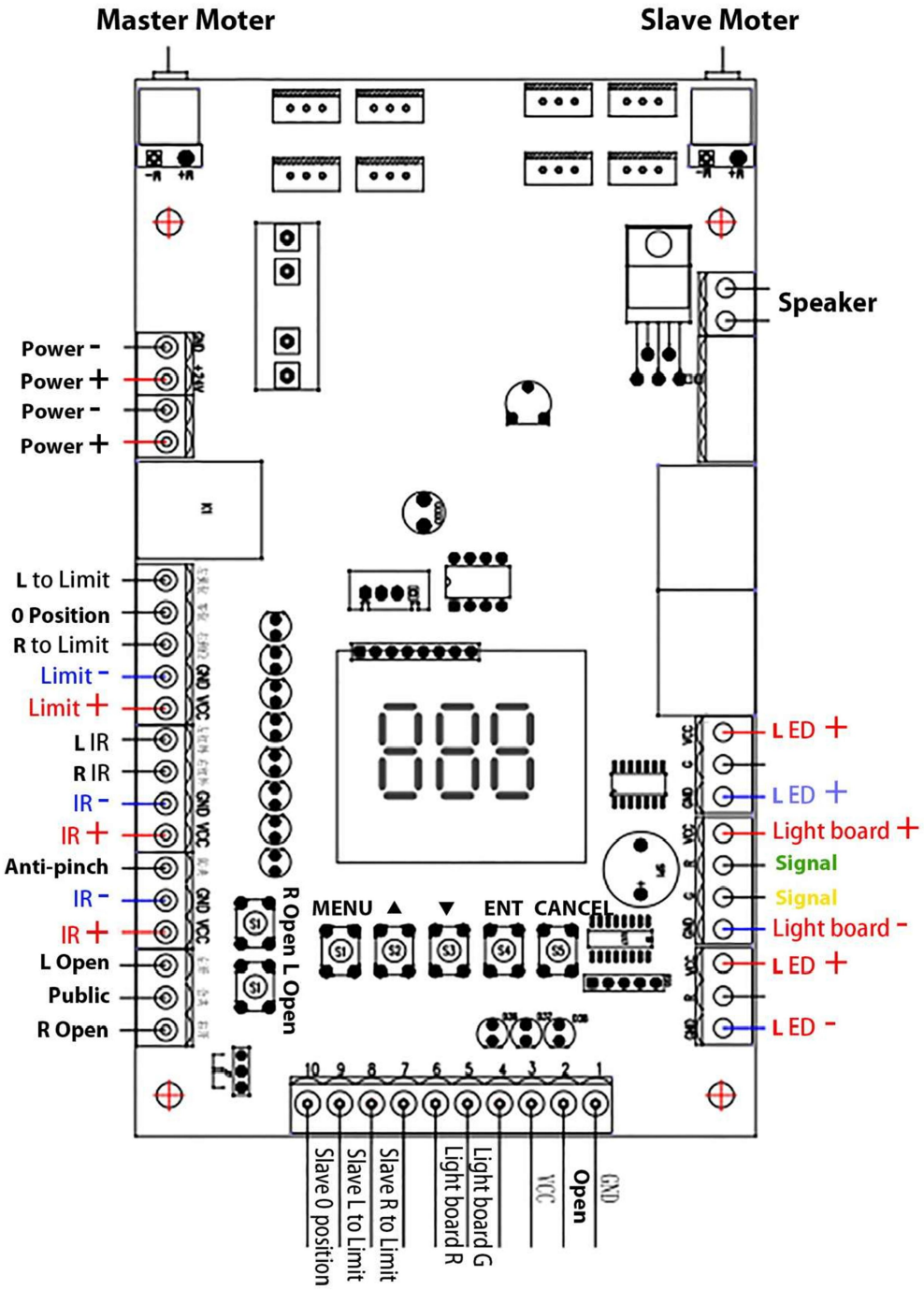
Display E-1 Master Motor Hall Error Adjustment L-15 to 1

Display E-2 Slave Motor Hall Error Adjustment L-16 to 1

//---Door status		
#define	Door_Close	0 //Close to Limit
#define	Door_AOpen	1 //AOpen to Limit
#define	Door_BOpen	2 //BOpen to Limit
#define	Door_AOpening	3 //AOpening
#define	Door_BOpening	4 //BOpening
#define	Door_AColseing	5 //AClosing
#define	Door_BColseing	6 //BClosing
#define	Door_Init	7 //Initialize
#define	Door_SC	8 //Brake
#define	Door_Find_ZERO	9 //Looking for zero
#define	Door_emergency_stop	10// Emergency stop condition
#define	Door_A_Close_Ener_Stop	11//A In emergency
#define	Door_B_Close_Ener_Stop	12//B In emergency
#define	Door_A_Opening_Stall	13// Open the door A in the plug turn
#define	Door_B_Opening_Stall	14 // Open the door B in the plug turn
#define	Door_A_Closeing_Stall	15//Close the door A in the plug turn
#define	Door_B_Closeing_Stall	16//Close the door B in the plug turn
#define	Door_Emer_After_Close	17

Wiring Diagram

Check circuit according to the following wiring diagram:



Warranty Coverage

Damage that occurs during the normal use of the product is covered by the warranty and enjoys war ranty service.

If the damage caused by the following circumstances, belong to the non-warranty scope.

1. Damage caused by incorrect operation in violation of the operating procedures.
2. Damage caused by unauthorized maintenance of the product.
3. Abnormalities and damage caused by the use of very poor conditions and the use of the environment