FB3000 & FB3200 Series User Manual

Version: 2.0

Date: November, 2015

1. Introduction

1.1 Features

- ➤ LED light for lane indication
- Advanced sensor system
- > Audible and visible alarm
- > Fire alarm integration
- > Optional counter
- > Flap release when power off

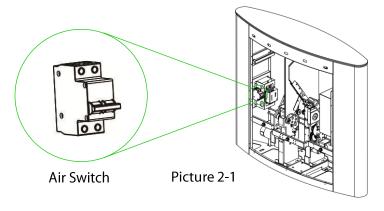
1.2 Specifications

Dimension (mm)	L = 1200, W = 300, H = 1000 (FB3000 Master / FB3000 Slave / FB3200)	Packing Dimension (mm)	FB1000: L = 1400, W = 400, H = 1100 (FB3000 Master / FB3000 Slave / FB3200)	
Net Weight	FB3000: 135kg (Master+Slave)	Power Supply	AC 100V ~ 240V, 50Hz ~ 60Hz	
	FB3200: 86kg	Input	7.0.1007 2.107,30112 00112	
Flap Width	270mm	Power Supply Output	24V ~ 5A	
Interface	Dry Contact	Power Rate	Idle 60W, working 110W	
Open / Close Time	1s	Capacity	25 ~ 30 /minute	
Working Temp.	-28 °C ~ 60 °C	Working Humidity	5% ~ 80%	
Sensor	8	Working Environment	Indoor / Outdoor (with shelter)	

2. Test Before Installation

Process

- 1) Power on the device with AC 110V/220V (Notice: the earth must be connected).
- ② Wait 30 seconds until the device finishes self-detection.
- ③ Check the flap opening in both directions, and check the LED. If it works fine, start installation.



3. Installation

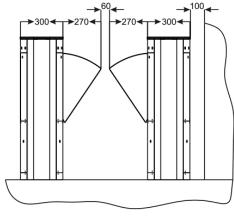
3.1 Conditions and the Location

The installation base must be solid to ensure that the expansion screws are well mounted to fix the devices.

Confirm the installation position.

FB3000 is only for one-lane use. For two-lane or more, please combine FB3000 and FB3200.

If the flap barrier is close to the wall, a space of 100mm distance between the device and the wall should be reserved in order to open the cover and change the setting.



→300**⋖**

Picture 3-1A One Lane

Picture 3-1B Two Lanes

3.2 Wiring

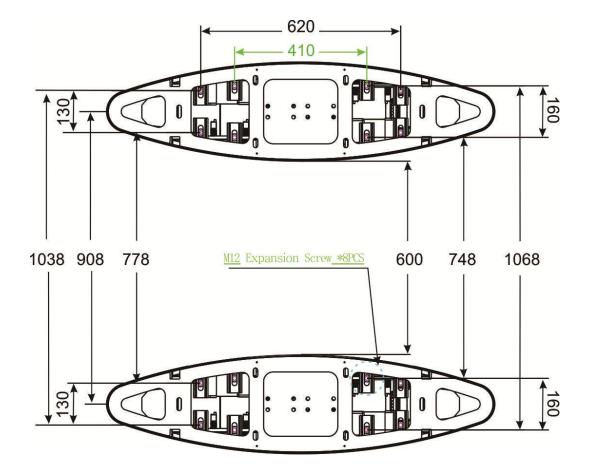
Regarding to the wiring position, please check picture 3-2.

Please use the 3 PINs wire including earth wire for power. In order to avoid jamming between high voltage power wire and communication wire, it is recommended to separate these two kinds of wire in different pipes. The earth must be connected.

3.3 Installation

Process

- ① Power on the master device and slave device, ensure the 6 pairs of sensor on both sides are fitted. The distance between two flaps should be 60mm when they are in closed status.
- Mark the position of the device and the holes for expansion screws.
- ③ Drill holes on the marked position. The holes should be 14mm diameter and 80mm depth.

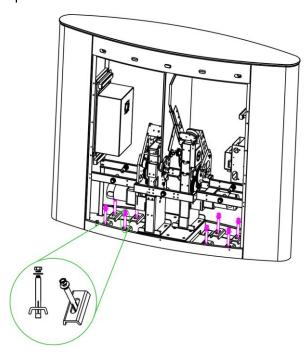


Picture 3-2

④ Put the glue on the expansion screws and put into the holes. Put the flap barrier device on the proper position.

Ensure that the device is horizontally installed.

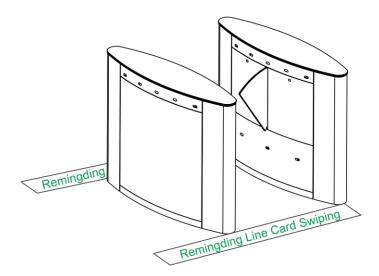
Note: There must be 8 expansion screws for each side.



Picture 3-3

3.4 Set Reminding Line

It is recommended to set the reminding line on the ground. The user will stay out of the reminding line to swipe card or press fingerprint.



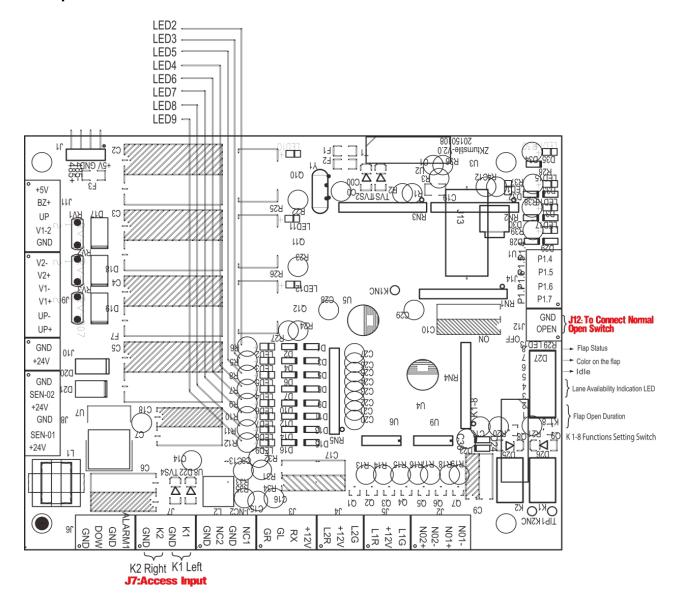
Picture 3-4

4. PCB Wiring

Access control system is already included in FB3011, FB3022, FB3211 and FB3222.

Access control system is not included in FB3000 and FB3200. Third party access control system need to be connected to the integration interface of the flap barrier.

4.1 Flap Barrier Controller Introduction



Picture 4-1

LED15 Alarm Status: The LED is on when there is an alarm.

LED5 K1 Input: The LED is on when K1 input has open signal.

LED4 K2 Input: The LED is on when K2 input has open signal.

LED6 Master Device Close: The LED is on when master device closes.

LED7 Master Device Open: The LED is on when master device opens.

LED8 Slave Device Close: The LED is on when slave device closes.

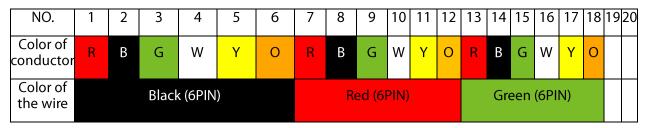
LED9 Slave Device Open: The LED is on when slave device opens.

J7 Access Input: Flap opening input interface, receive dry contact signal to open the flap. There are two pairs of input for both in and out. That means access control system need two relays to indicate in and out.

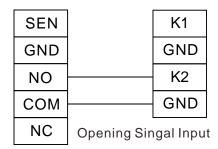
J12: Emergency input for normal open, for example fire alarm input.

4.2 Wiring between Master and Slave Device

There are three 6-conductor cables. All the conductor should be well connected to make sure the device works fine. The color of the wiring between master and slave device are as following table.



4.3 Connection between Access Control System and Flap Controller

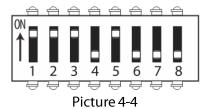


Note: The access control relay open duration should be no more than 1 second.

Access Control System

Picture 4-3

4.4 DIP Switch K1-8 Setting



No.	K1-1	K1-2	K1-3	K1-4	K1-5	K1-6	K1-7	K1-8
Function	Flap o	pen du	ration	Lane di	rection	Reserved	Flap LED color	Flap status
Default	1	1	1	0	1	0	0	0

4.4.1 Flap Open Duration

Flap barriers will be opened after receiving open signal from access control system. The flap open duration refers to the opening time of the door without passer-by.

Use the K1-1, K1-2, K1-3 to set this open duration.

Value	Flap Open Duration	Value	Flap Open Duration
111	5s	011	30s
110	10s	010	40s
101	15s	001	50s
100	20s	000	60s

4.4.2 Lane Availability Indication LED

Use the K1-4 and K1-5 to set the LED for indicating the status of the lane. Green arrow indicates available. Red cross indicates not available.

K1-4	K1-5	Lane Status
0	1	Two direction available
1	0	One direction available (In)
1	1	One direction available (Out)

4.4.3 Color on the Flap

Default color can be set on the flap.

K1-7	Color
0	Green
1	Red

4.4.4 Flap Status

K1-8	Flap Status
0	Flap normal close
1	Flap normal open

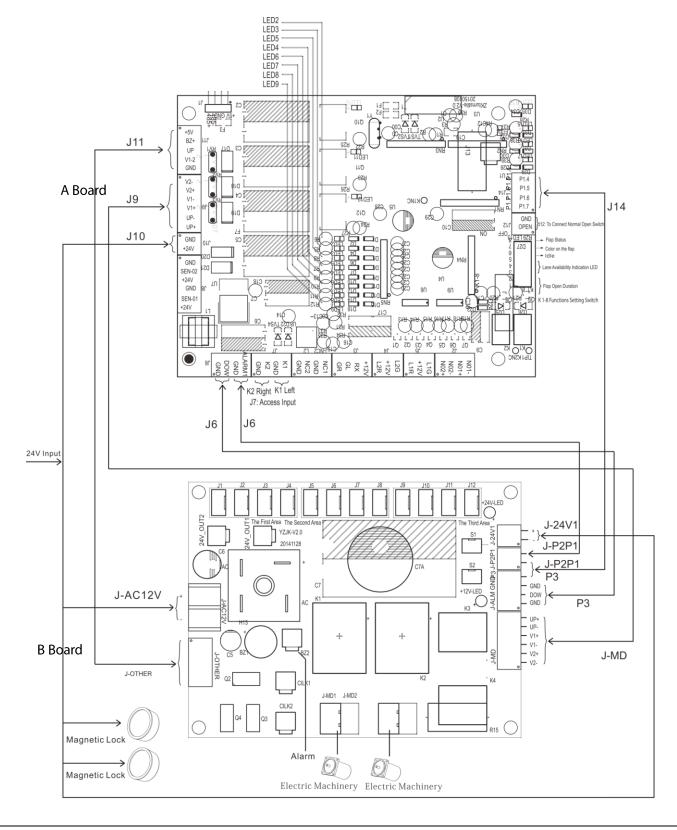
Appendix 1 Default Setting

Category	No.	Function	Default Setting
Access Control	1	Lock Open Duration	1s
	2	IP	192.168.1.201
	1	Flap Open Duration	5s (K1-1=1, K1-2=1, K1-3=1)
Flap Setting	2	Lane Indication LED	Available in both directions (K1-4 = 0 , K1-5 = 1)
	3	Color on the Flap	Green (K1-7=0)
	4	Flap Status	Normal Close (K1-8 = 0)

Appendix 2 Connection Diagram among Boards

Connection between PCB boards of Flap barrier controller

A board	B board
J11	J-OTHER
J9	J-MD
J6 (DOW and GND)	P3
J6 (ALARM1 and GND)	J-P2P1
J14 (P1.5 and P1.6)	J-P2P1 and P3



Appendix 3 Connection Diagram of A Board and Access Control Panel

