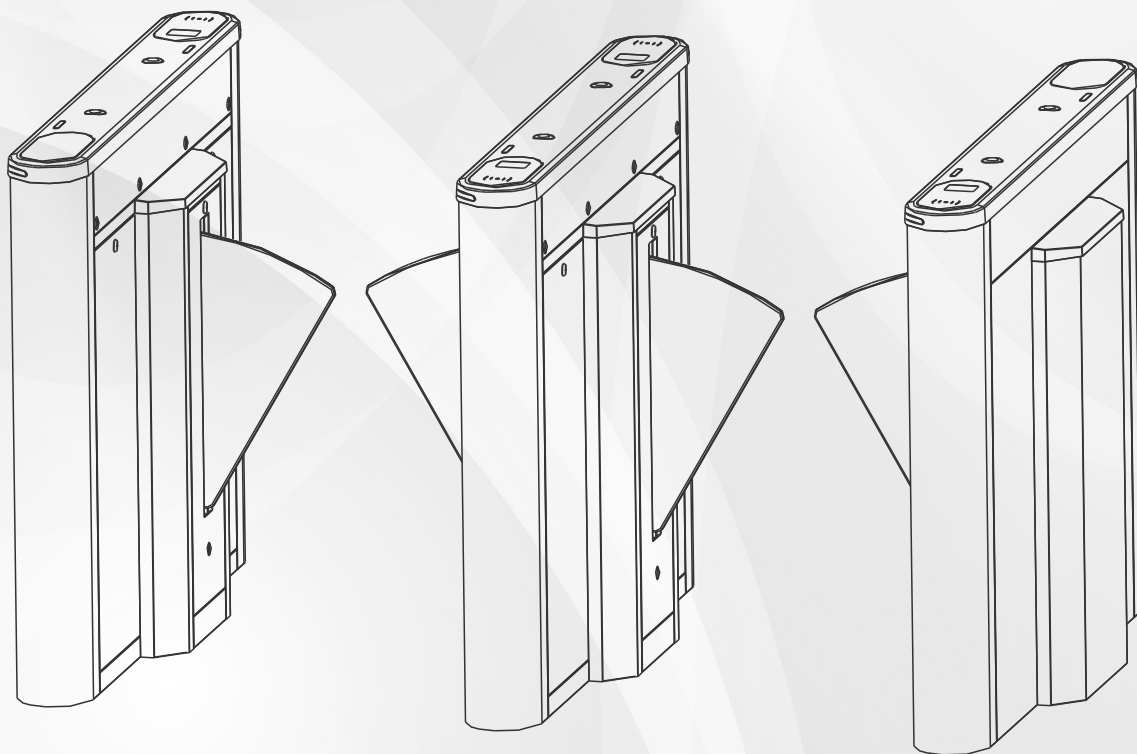


# *Installation Guide*

## Saturn-F1000 Series

**Applicable Model(s):** Saturn-F1000, Saturn-F1200

Version: 1.0

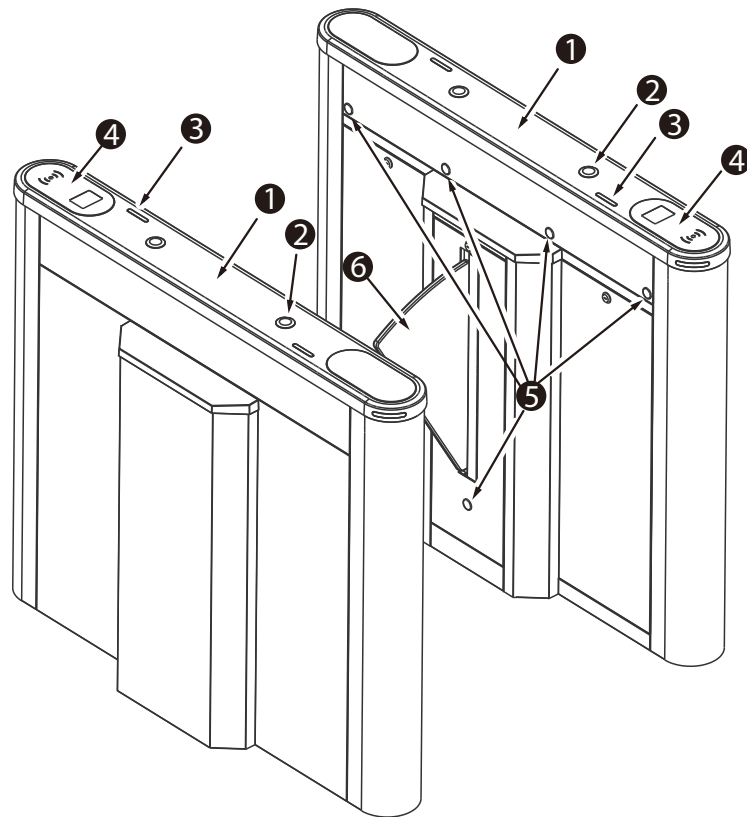


## Revision History

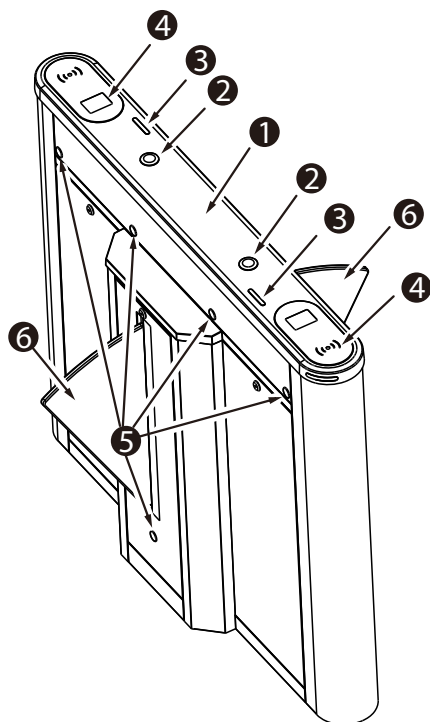
Revision	Date	Author	Reviewer	Description
V1.0	08/05/2025	Stella.Xia		Original Document

# 1 Overview

## Saturn-F1000



## Saturn-F1200



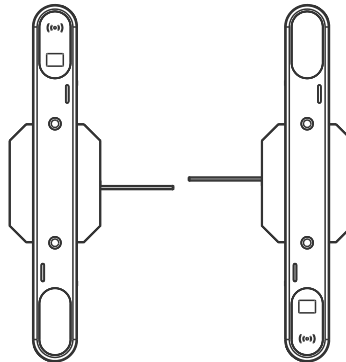
- ① Top Lid
- ② Hole Plugs  
(Reserved for Facial Authentication  
Terminal for Surface Mount)
- ③ Traffic Indicator
- ④ Verification Area
- ⑤ Infrared Sensor
- ⑥ Barrier

## 2 Dimensions

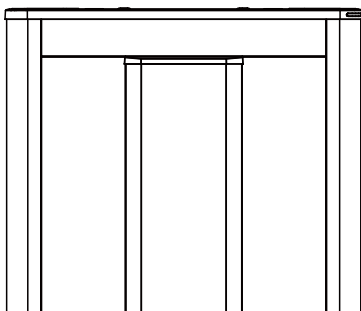
### Saturn-F1000

Unit: mm

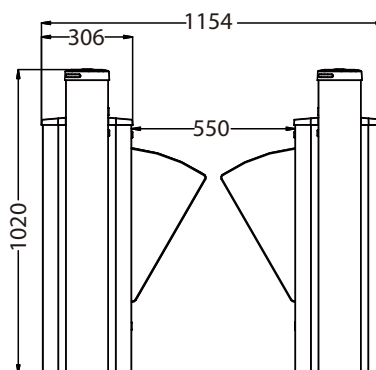
Top View



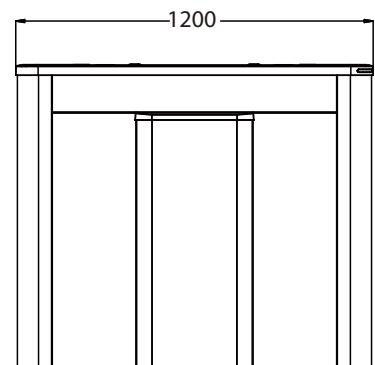
Side View



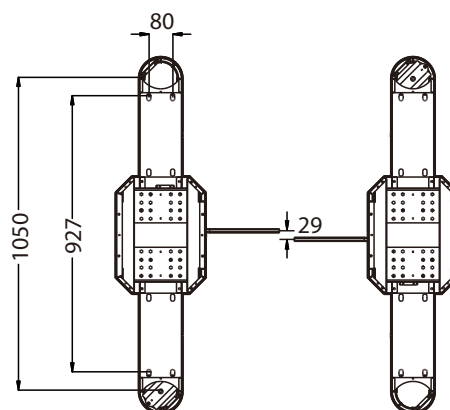
Front View



Side View



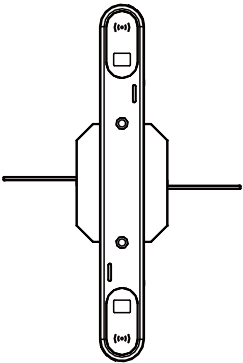
Bottom View



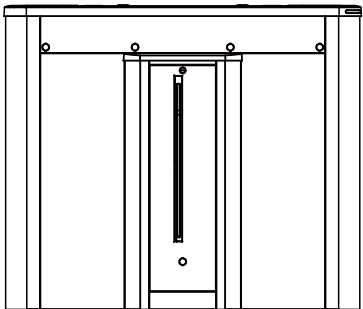
**Saturn-F1200**

Unit: mm

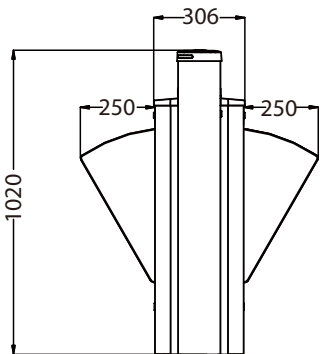
Top View



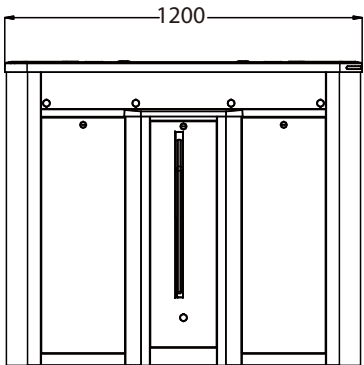
Side View



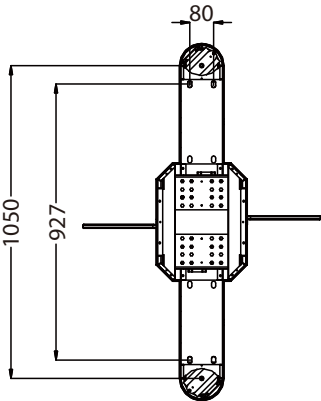
Front View



Side View



Bottom View

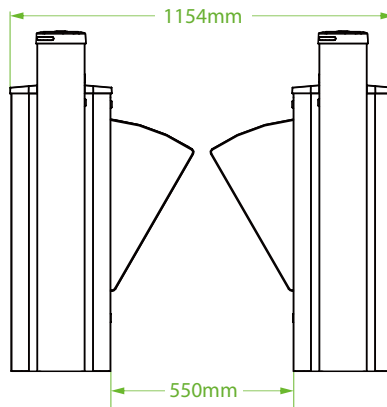


### 3 System Composition

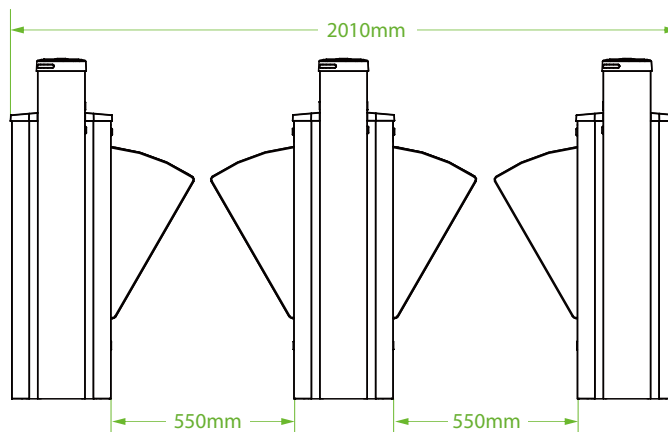
The Saturn-F1000 and Saturn-F1200 can be combined to form a single, dual or multi-lane system, and users can choose the appropriate combination according to actual needs. It should be noted that Saturn-F1200 needs to be used in conjunction with Saturn-F1000.

#### ● Single-lane

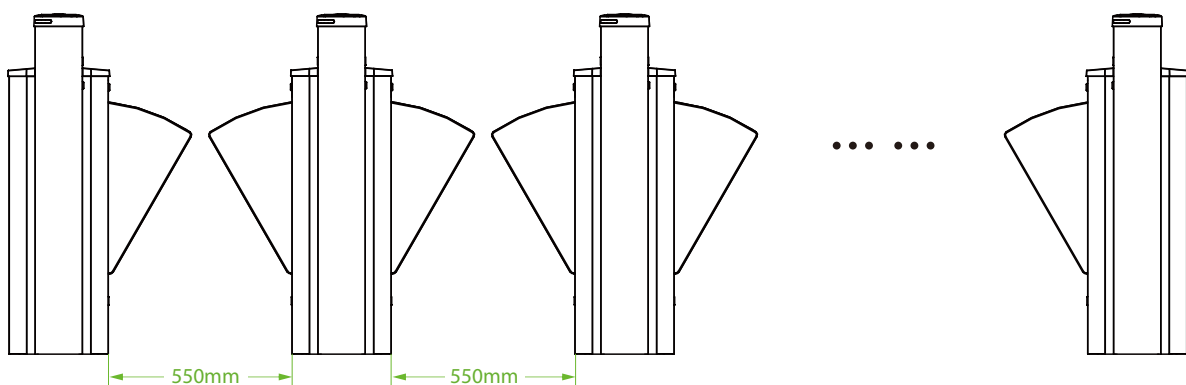
Unit: mm



#### ● Dual-lane

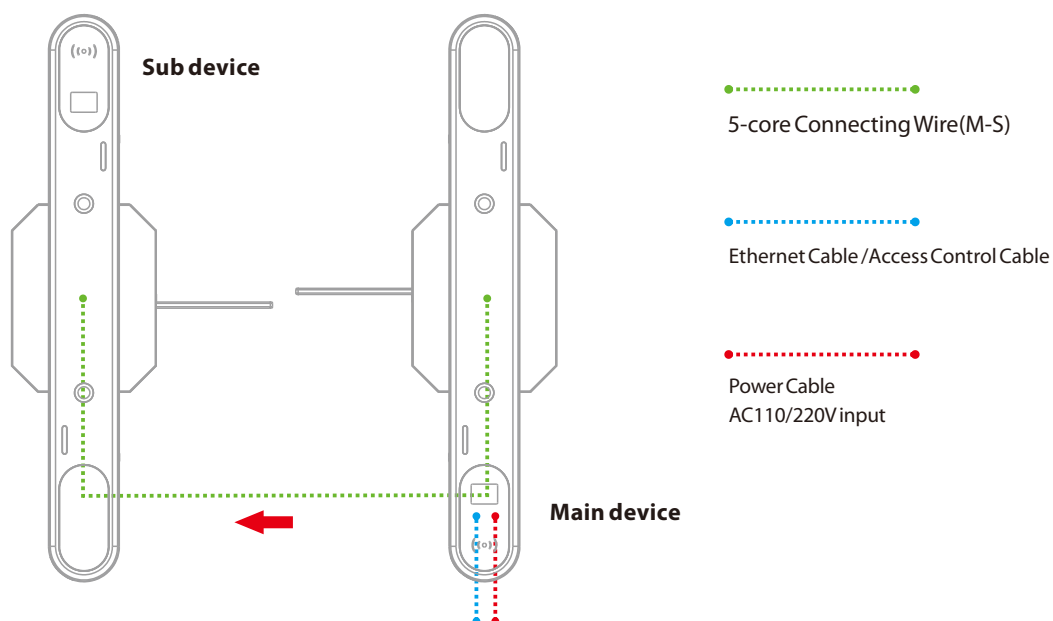


#### ● Multi-lane

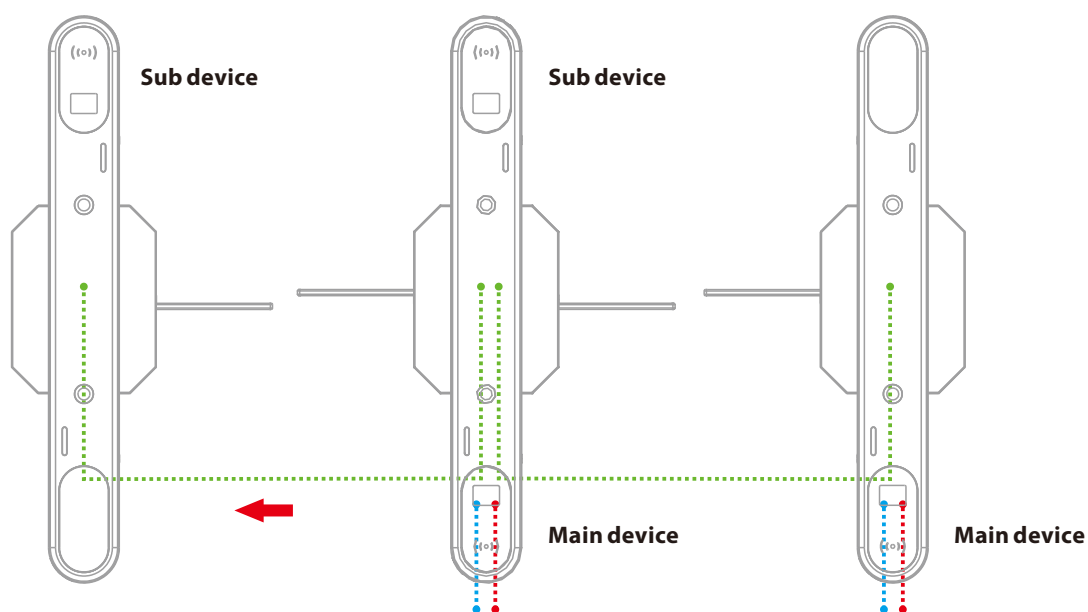


## 4 Wiring

### ● Single-lane wiring



### ● Dual-lane wiring



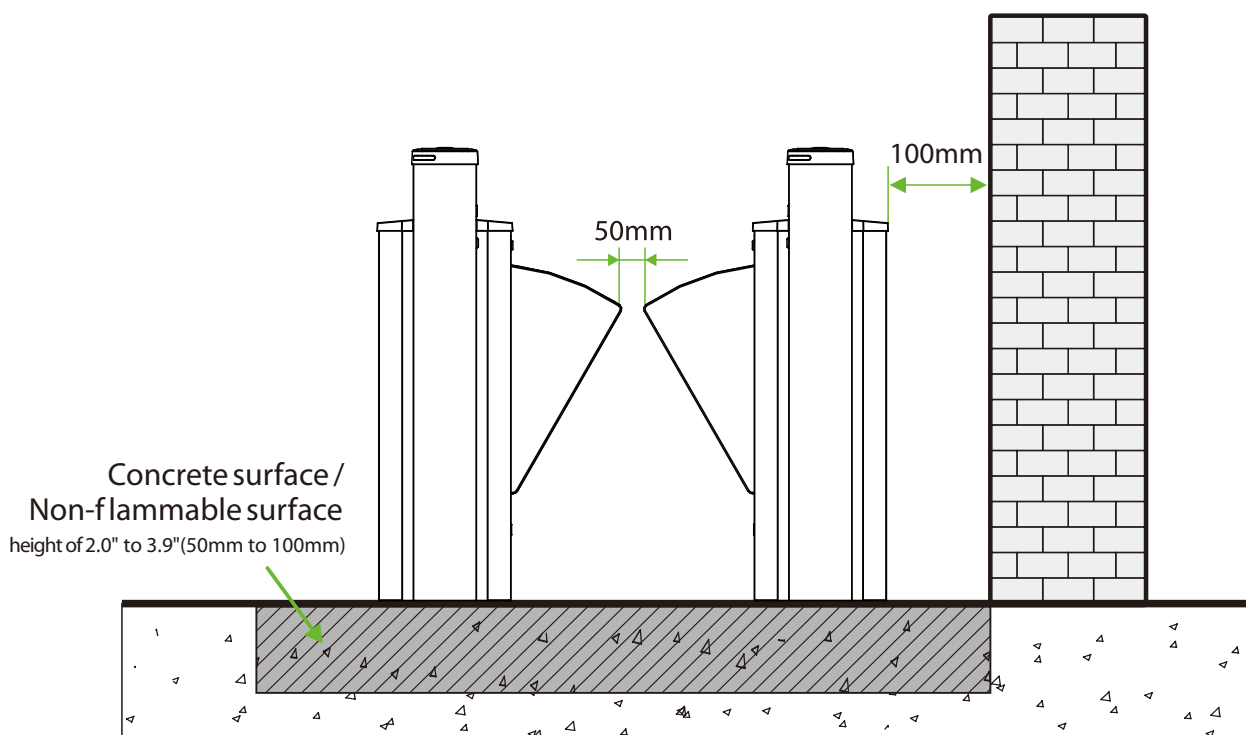
**Remarks:** The multi-lane wiring method is similar.

## 5 Installation Requirements

1. It is recommended that the turnstile must be installed on a horizontal solid platform with a height of **2.0" to 3.9"(50mm to 100mm)**.
2. It is recommended that the turnstile should not be used in the corrosive environment.
3. Make sure that the ground wire of the system is securely connected to avoid personal injuries or other accidents.
4. After installation, check if the connection has been done correctly at the connecting points of the ground wire, at the connector assemblies and wiring points of the circuits, as well as at each movable part of the turnstile. Any loose nuts, screws and other fasteners should be tightened in time to avoid any failures caused by long-time operations.

## 6 Installation Environment

1. Before installation begins, prepare installation tools, check the device and the accessories, and clear the installation base.
2. Make sure that the appliance is mounted on a concrete surface or other non-flammable surfaces.
3. The installation position of the turnstile depends on its size. A distance of **3.9"(100mm)** between the turnstile and the wall needs to be reserved for ease of opening the top lid of the turnstile to perform maintenance and adjustment. The reference figure is shown below:

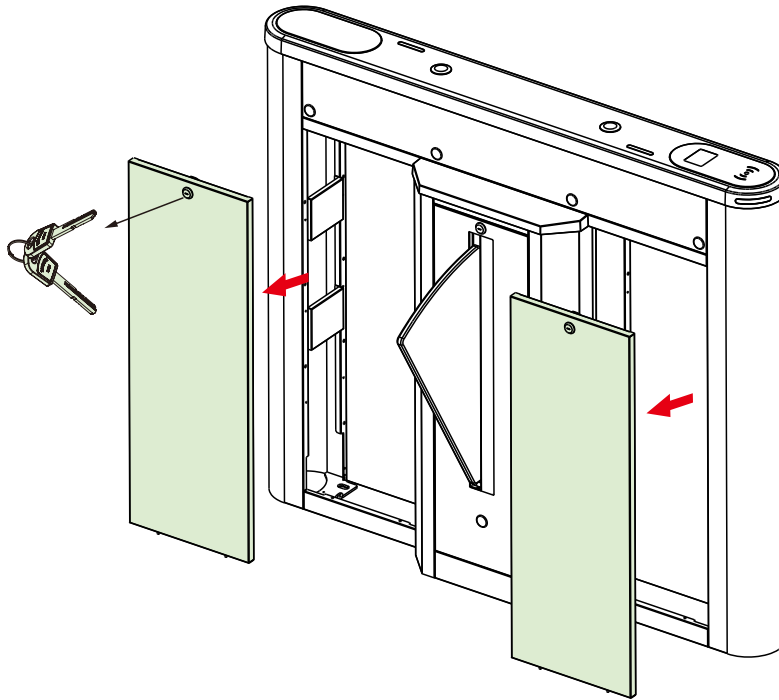




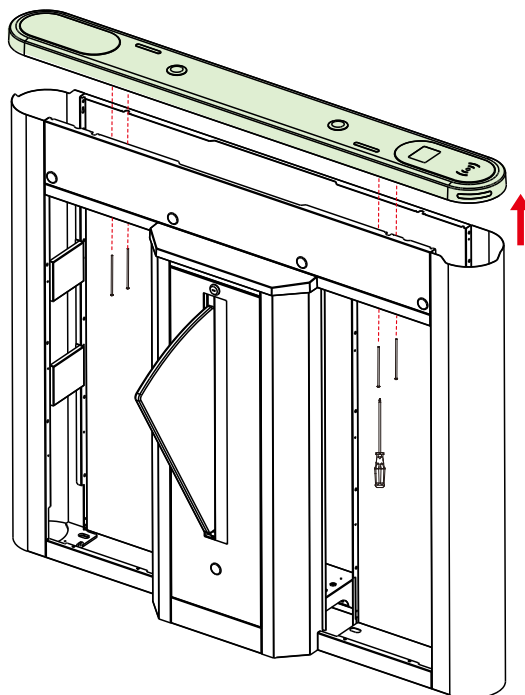
## 7 Installation Cabinet

### Step 1 Remove the Top Lid and Chassis Cover

1. As shown below, use the key to open the chassis covers on both sides and remove them.

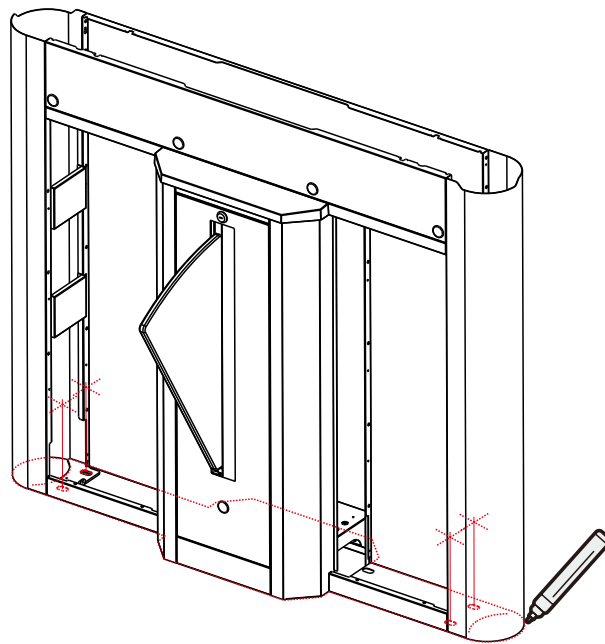


2. Loosen the four screws in the positions shown in the picture below. Then remove the top cover upwards.



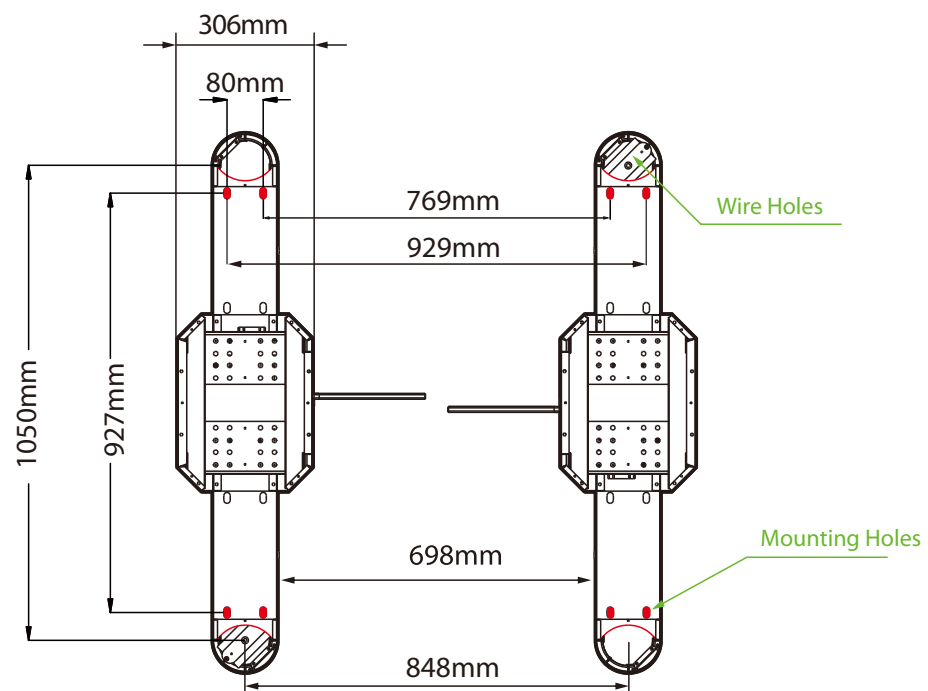
## Step 2 Marker Position

Draw the location of the cabinet with a marker and mark each location of the mounting holes. There will be a total of four mounting holes and two wire holes per cabinet.



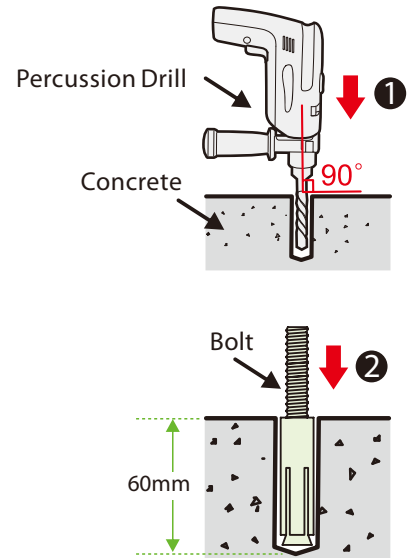
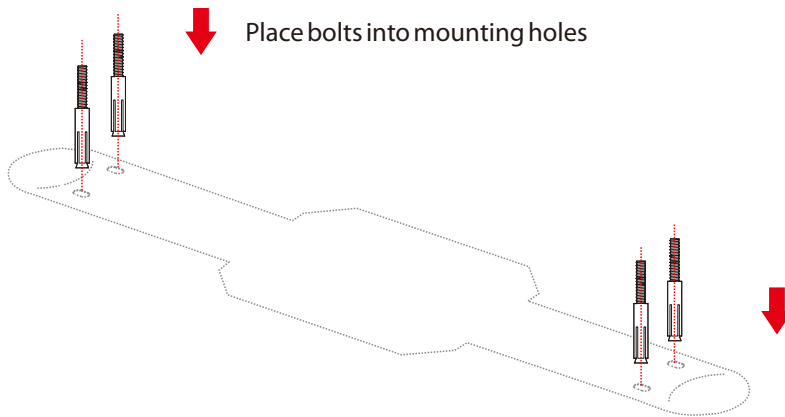
## Step 3 Determine the mounting location

1. Please refer to the user's manual and complete the **power-on self test** operation before installation.
2. Then place the cabinets according to the mounting distances shown in the diagram below. Take care to measure the distance between the bottom inside walls of the cabinets on the entrance side and exit side of the channel and make sure that the measurements are consistent.



## Step 4 Drill holes and place bolts

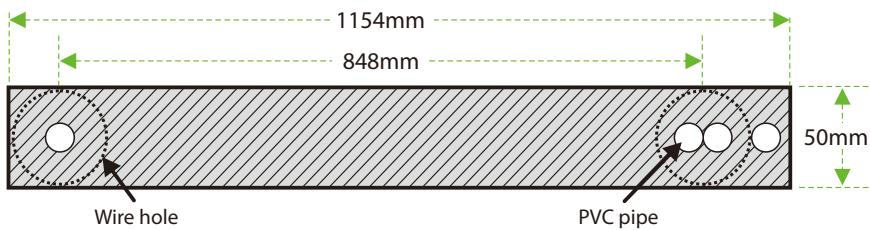
1. Using a concrete drill bit, drill the mounting holes **2.4" (60mm)** in depth at the center of each marked location.
2. Then insert the bolts vertically into the mounting holes as shown at right.
3. Ensure expansion bolts are properly seated by applying three to five light taps with a rubber mallet until flush with the concrete surface. Verify anchor stability before proceeding.



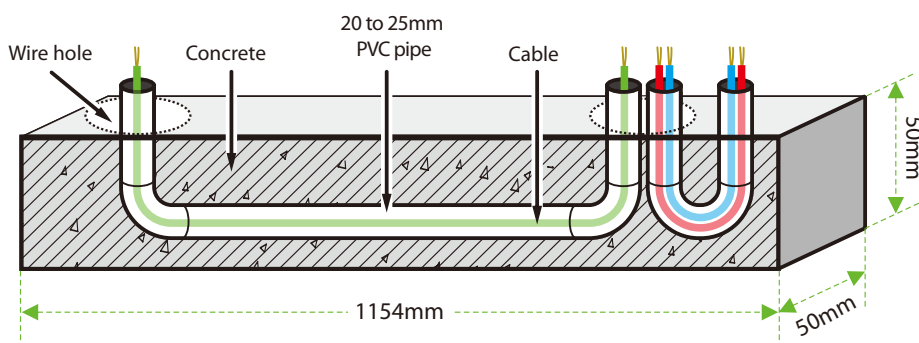
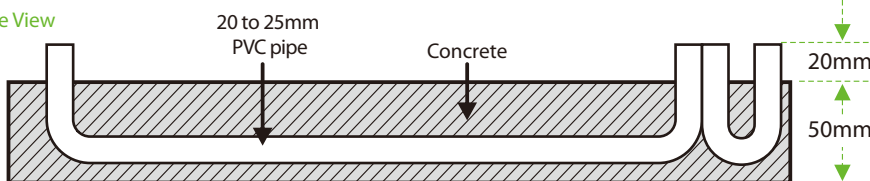
## Step 5 Wireway laying

1. Dig a recess of **2.0" (50mm)** depth between the wire holes on both sides of the channel with the dimensions shown below. Recesses can be dug at positions **1** and **2**.
2. Then lay two **0.8" to 1.0" (20 to 25mm)** diameter PVC pipes as shown below.
3. After threading the cable out of the PVC pipe, pour concrete to fix it in place.

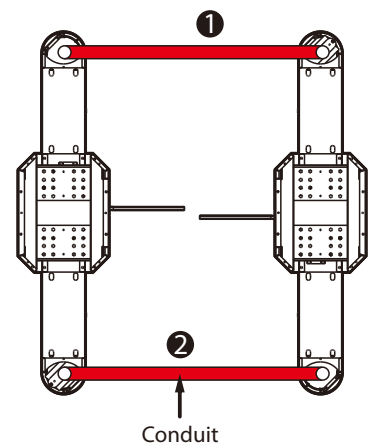
Top View



Side View



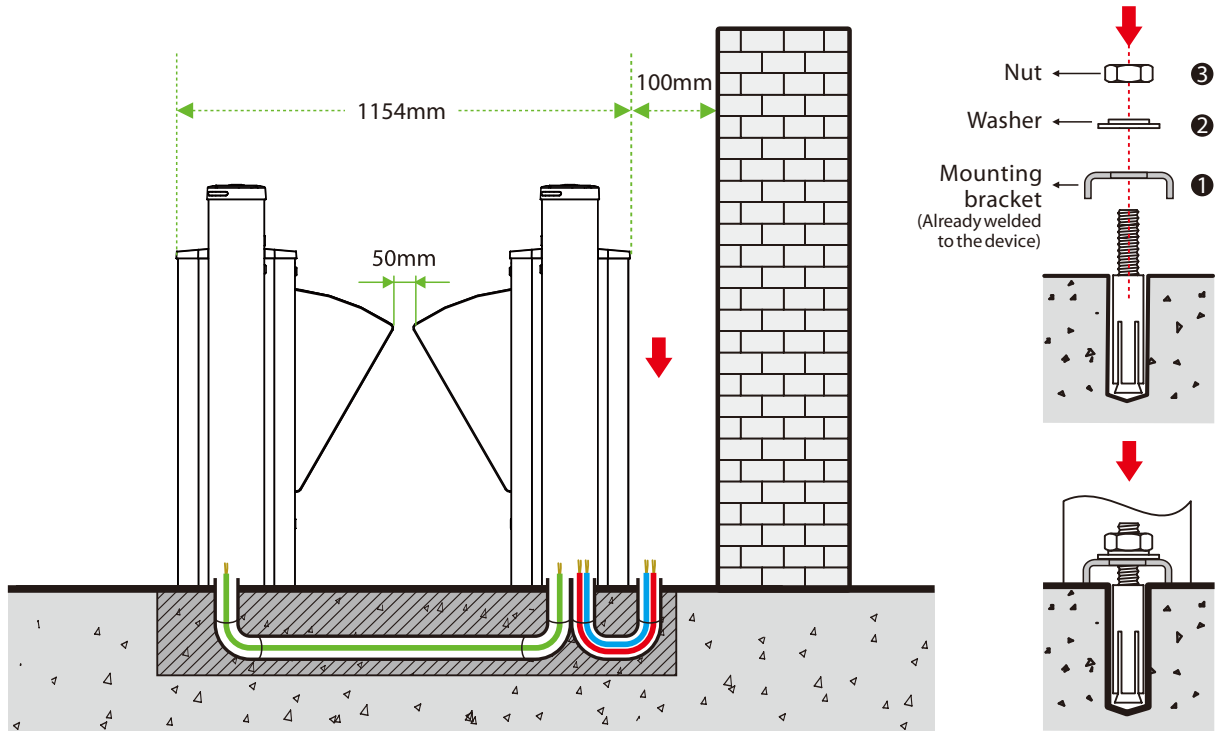
Position of the notch:



- 5-core Connecting Wire(M-S)
- Ethernet cable / Access control cable
- Power cable

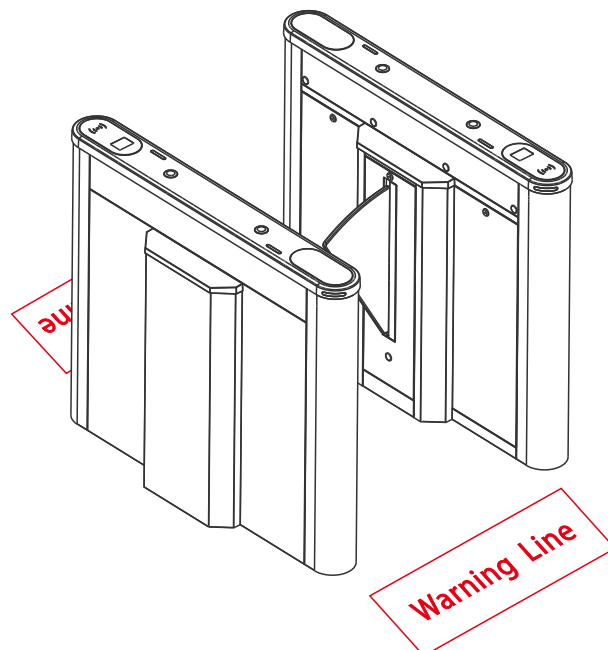
## Step 6 Fixed cabinet

1. After laying the PVC pipe, place the cabinet alignment bolts back into the mounting position.
2. Then insert the eight washers and nuts into the bolts one by one.
3. Tighten the nuts to hold the cabinet in place. Don't tighten it completely until after you're sure it won't move anymore. The finished result is shown below:

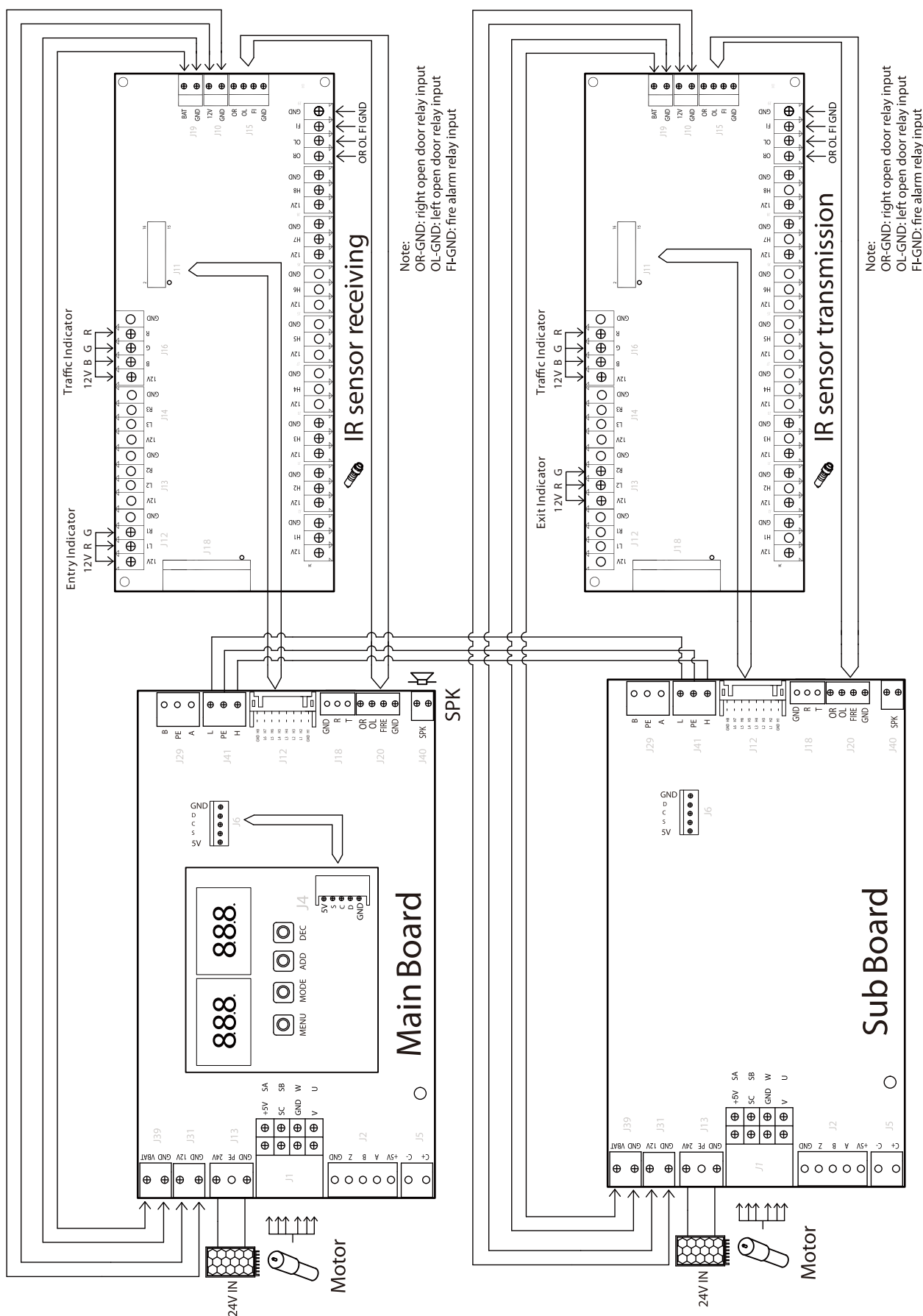


## Step 7 Marking the warning line

1. It is recommended that warning lines be marked on the ground and used to alert users.
2. A warning line can alert users to wait outside the line until the previous user completes the verification process and passes through the turnstile.



# 8 Wiring Diagram



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