

# *Installation Guide*

## Saturn-S1000 Series

**Applicable Model(s):** Saturn-S1000, Saturn-S1200

Version: 1.0



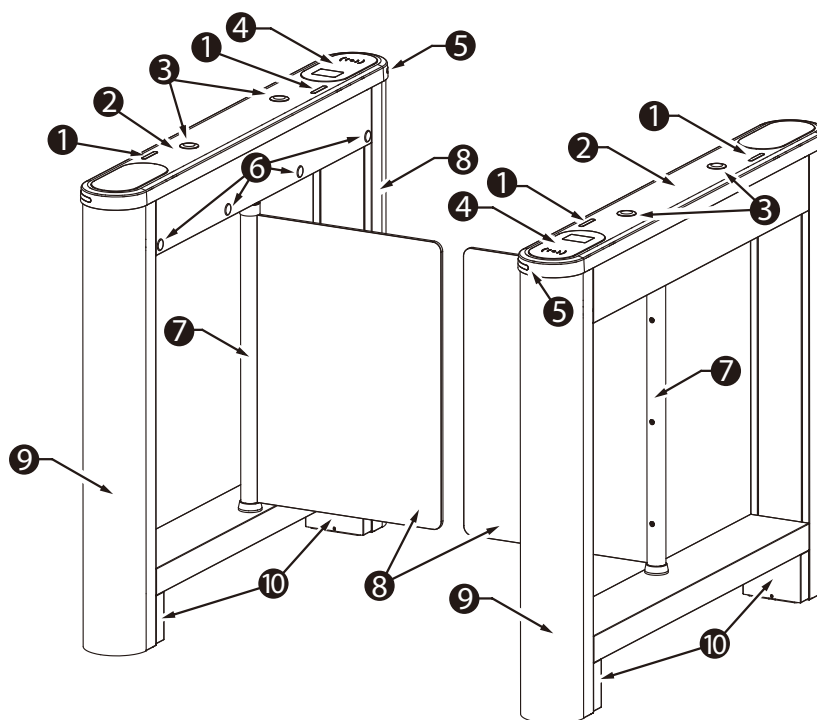
**Revision History**

Revision	Date	Author	Reviewer	Description
V1.0	12/11/2024	Julia Huang		Original Document

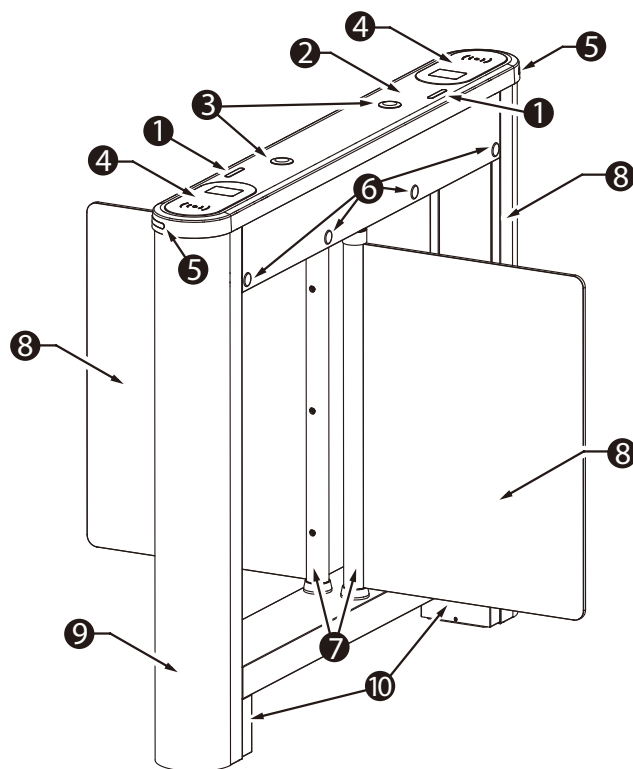


# 1 Overview

## Saturn-S1000



## Saturn-S1200



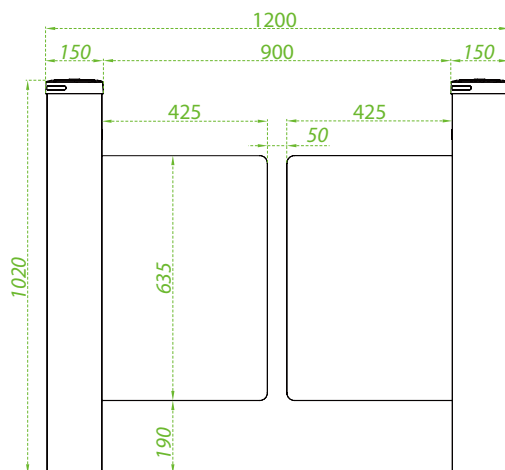
- ① Visual Indicator
- ② Top Lid
- ③ Reserve Mounting Hole  
(for Face Device)
- ④ Verification Area
- ⑤ Entry/Exit Visual Indicator
- ⑥ Infrared Sensor
- ⑦ Core Component
- ⑧ Barrier Material
- ⑨ Side Lid
- ⑩ Expansion Screw Cover Plate

## 2 Dimensions

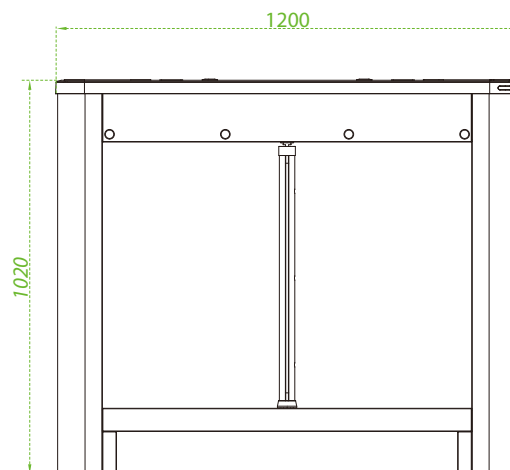
### Saturn-S1000

Unit: mm

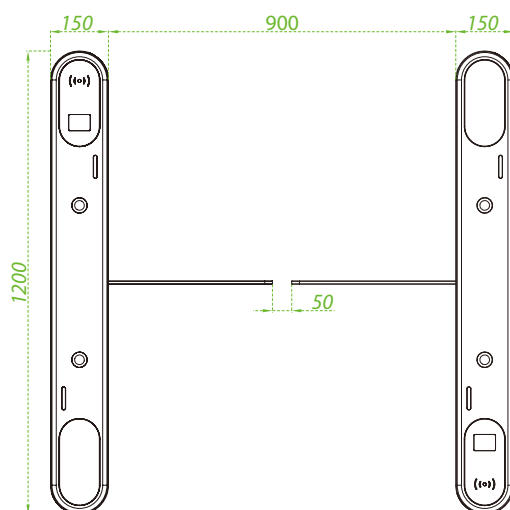
Front View



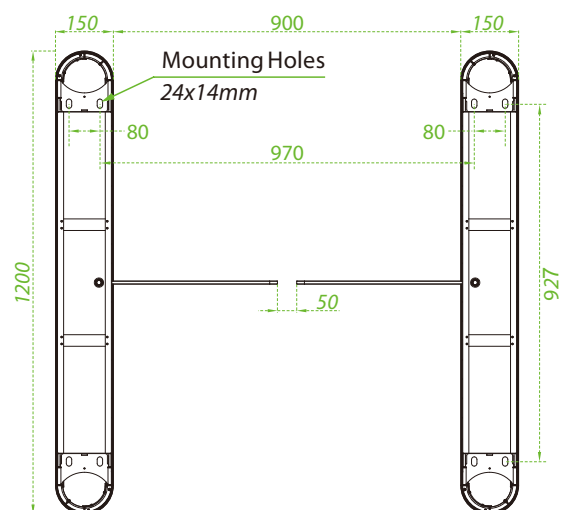
Side View



Top View



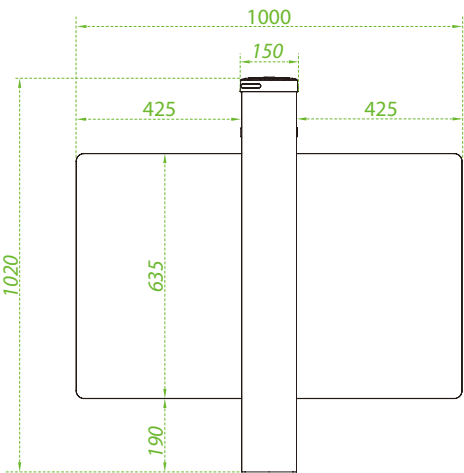
Bottom View



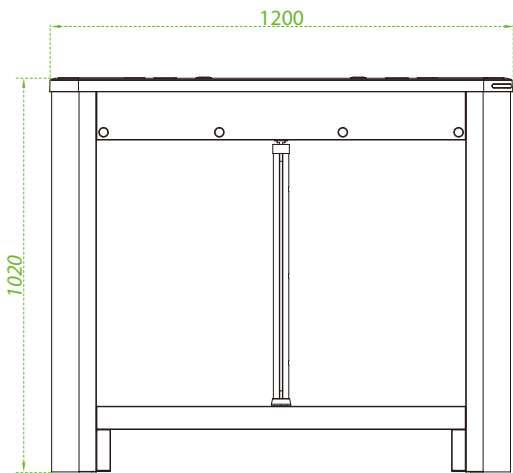
**Saturn-S1200**

Unit: mm

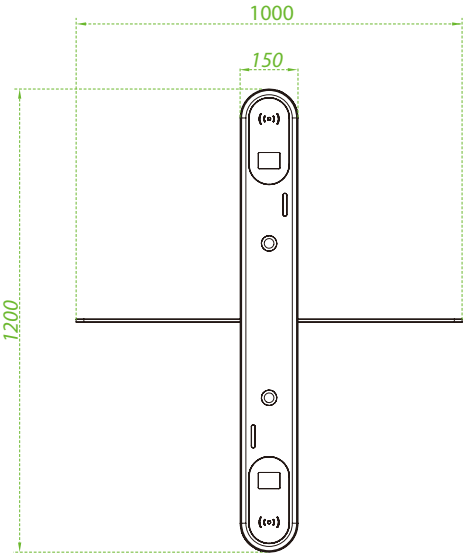
Front View



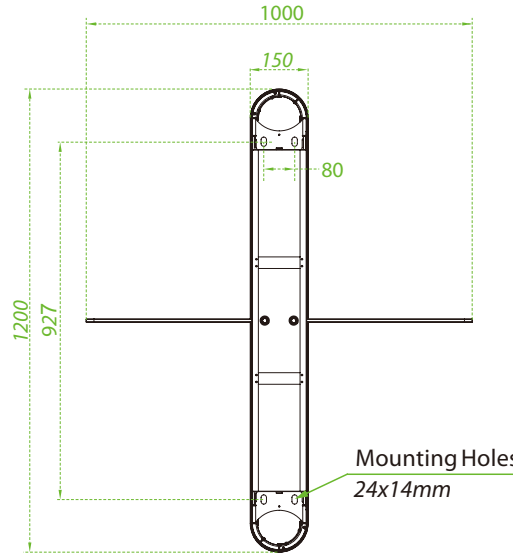
Side View



Top View



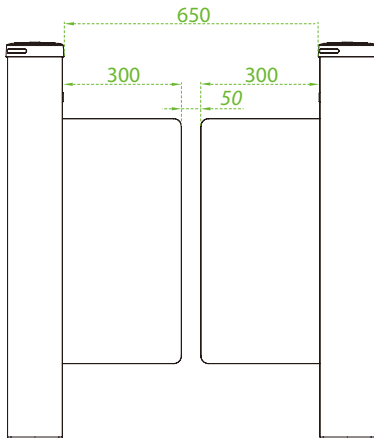
Bottom View



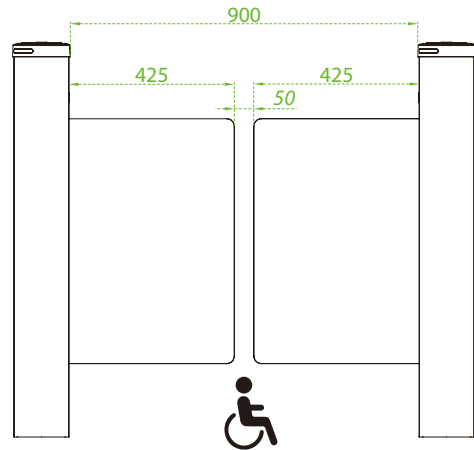
### 3 System Composition

The Saturn-S1000 and Saturn-S1200 can be combined to form a single, dual or multi-lane system, allowing the user to select the appropriate swing barrier size according to actual needs.

#### ● Single-lane

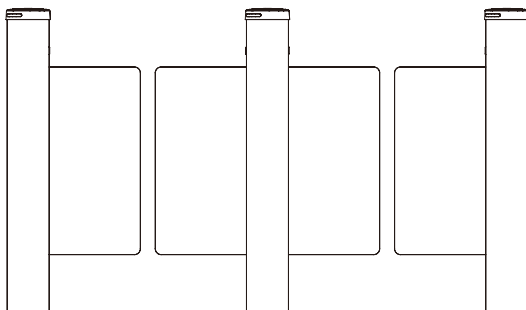


Standard Lane

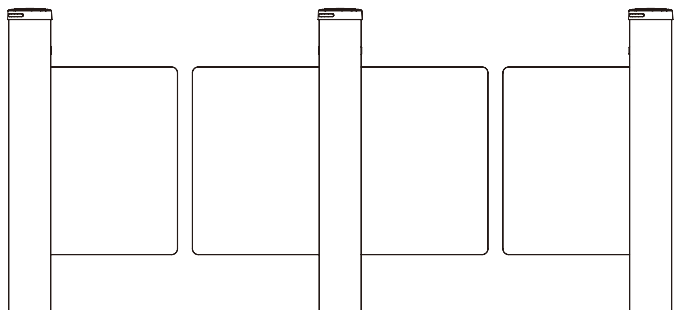


Wide Lane / ADA Lane

#### ● Dual-lane

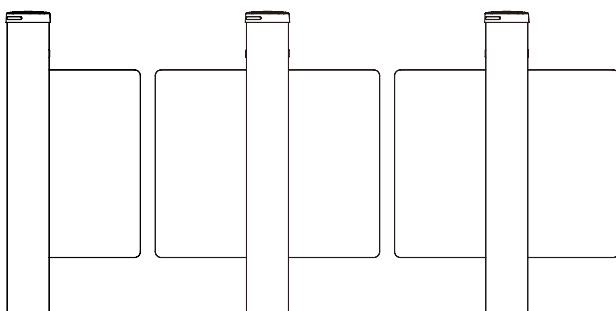


Standard Lane



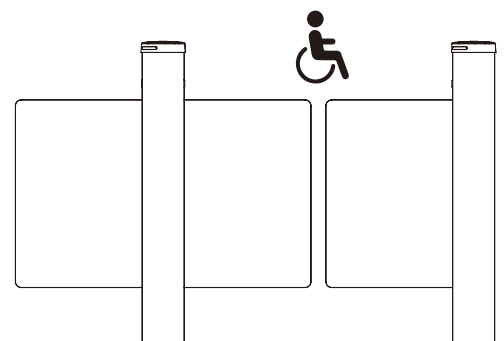
Wide Lane / ADA Lane

#### ● Multi-lane



Standard Lane

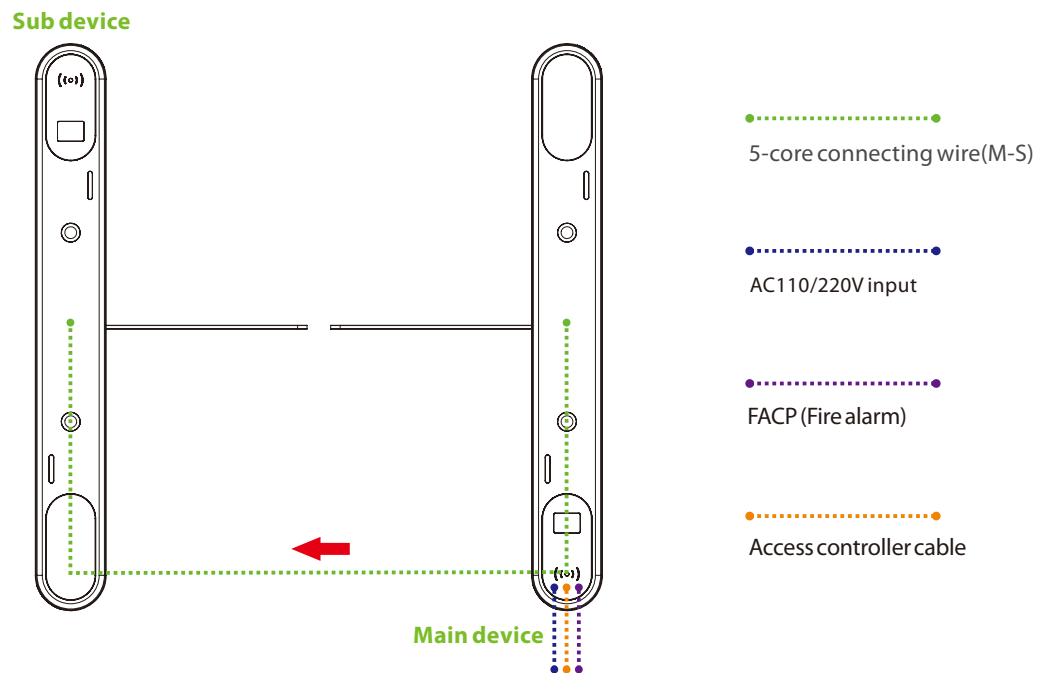
...



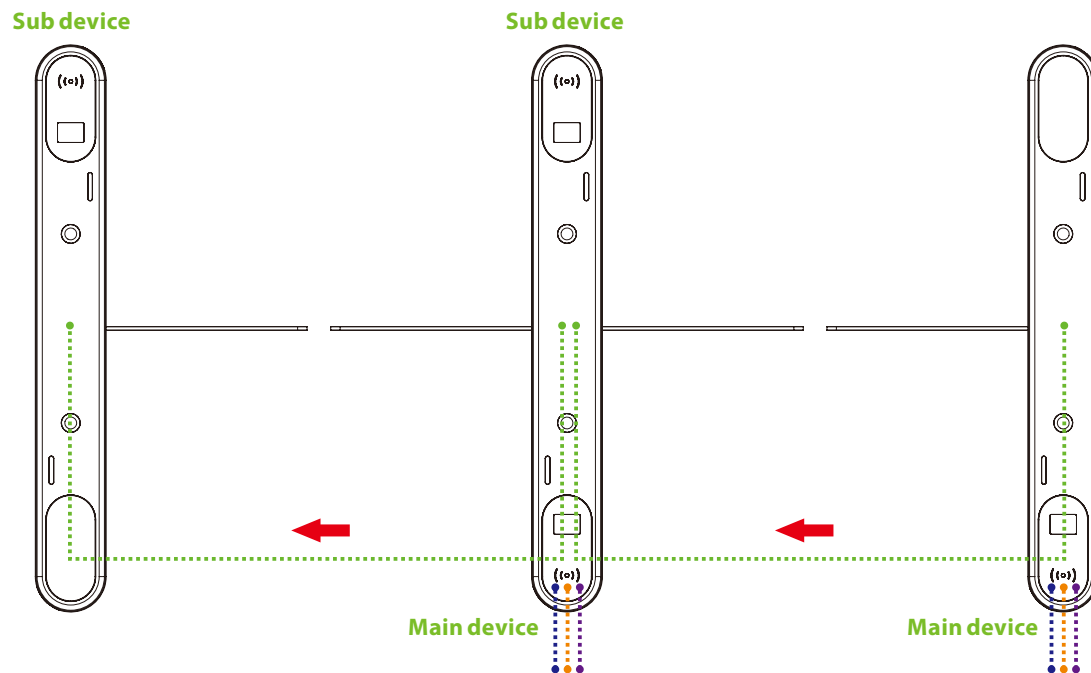
Wide Lane / ADA Lane

## 4 Wiring

### ● Single-lane wiring



### ● Dual-lane wiring



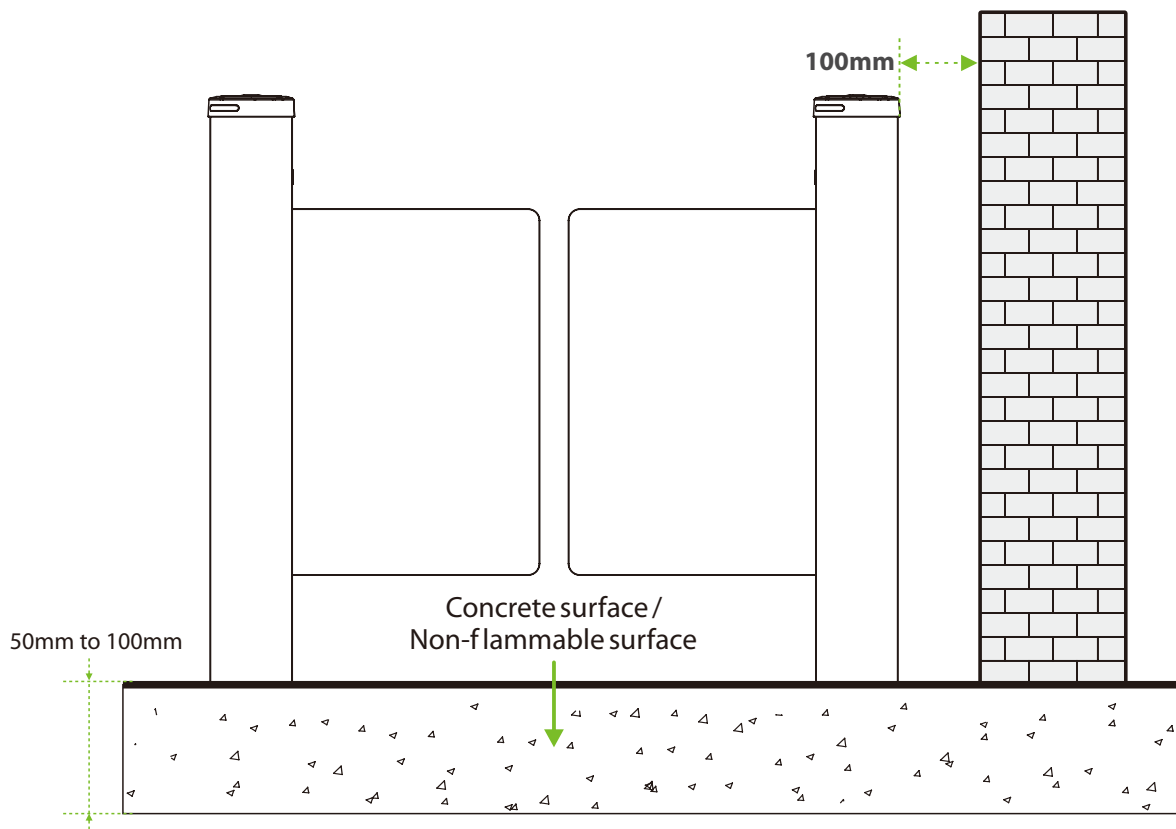
**Remarks:** The multi-lane wiring method is similar.

## 5 Installation Requirements

1. It is recommended that the turnstile must be installed on a horizontal solid platform with a height of **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

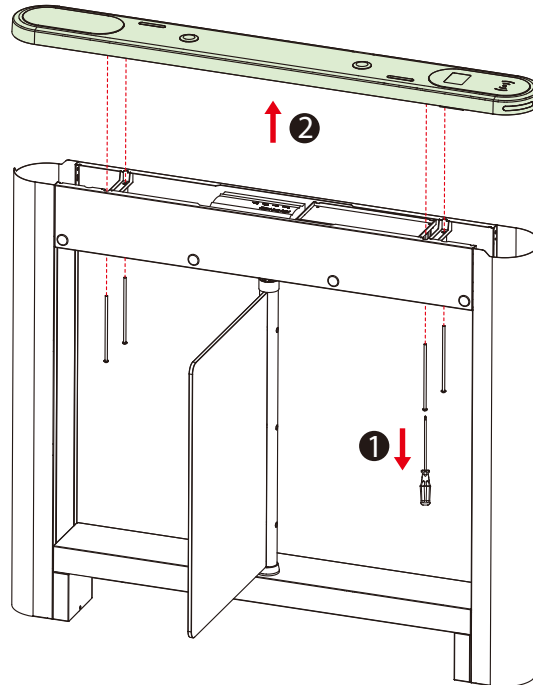
1. Before installation begins, prepare installation tools, check the device and the accessories, and clear the installation base.
2. Make sure that the appliance is mounted on a concrete surface or other non-flammable surfaces.
3. The installation position of the turnstile depends on its size. A distance of **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:



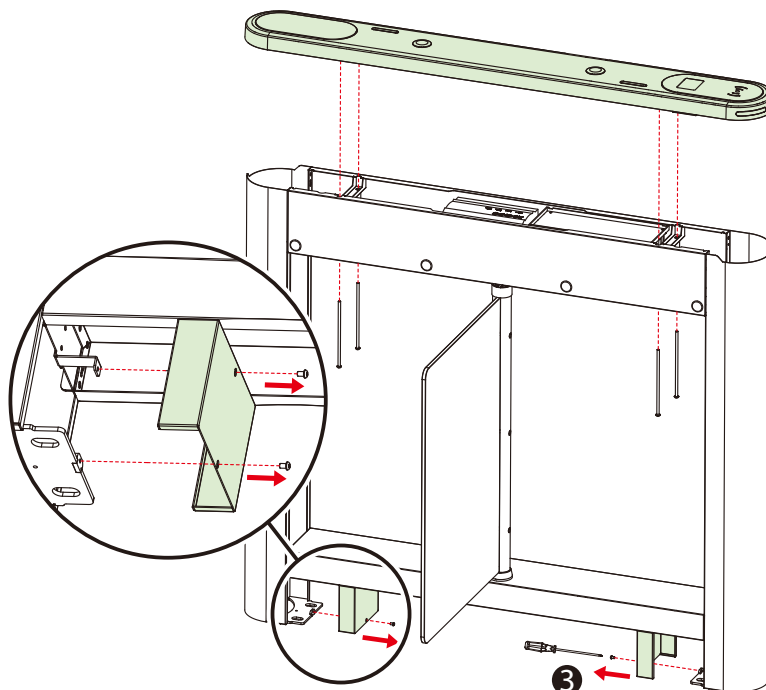
## 7 Installation Cabinet

### Step 1 Remove the Top Lid and Expansion Screw Cover Plate

1. Remove the four screws hidden under the top lid, then remove the top lid.

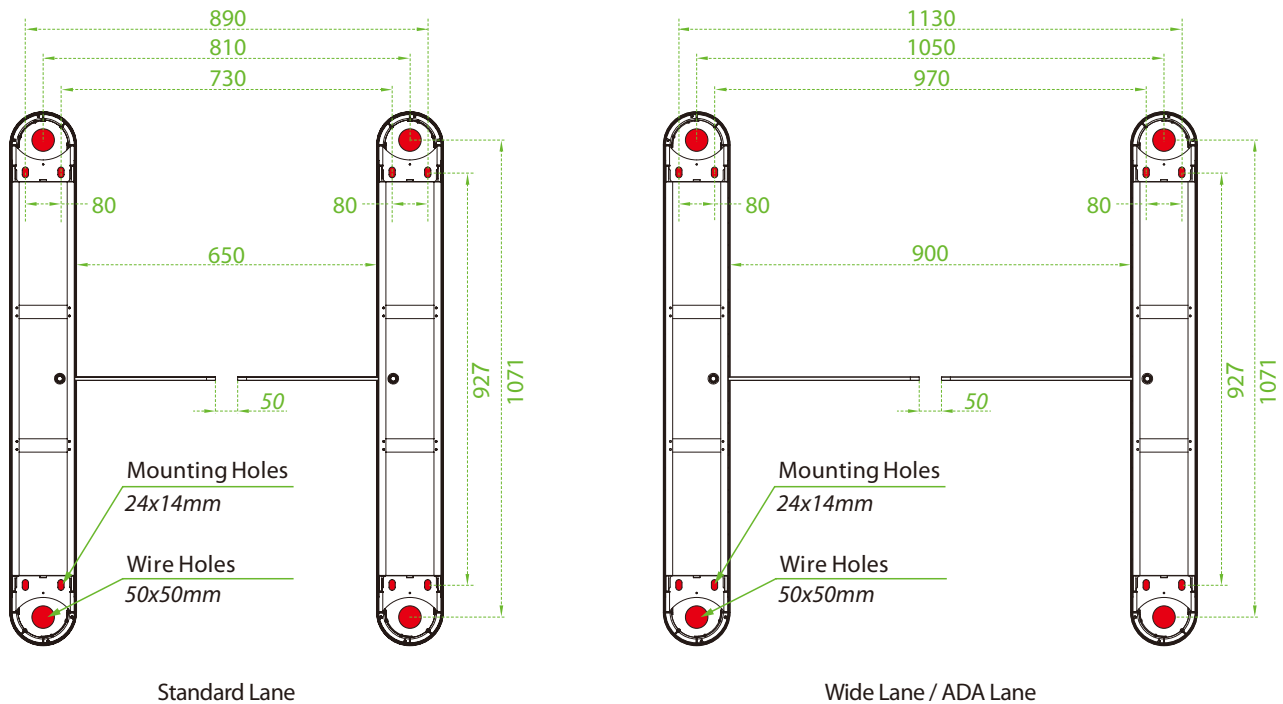


2. Remove the four screws of the expansion screw cover plate under the bottom beam, and then remove the cover plate.



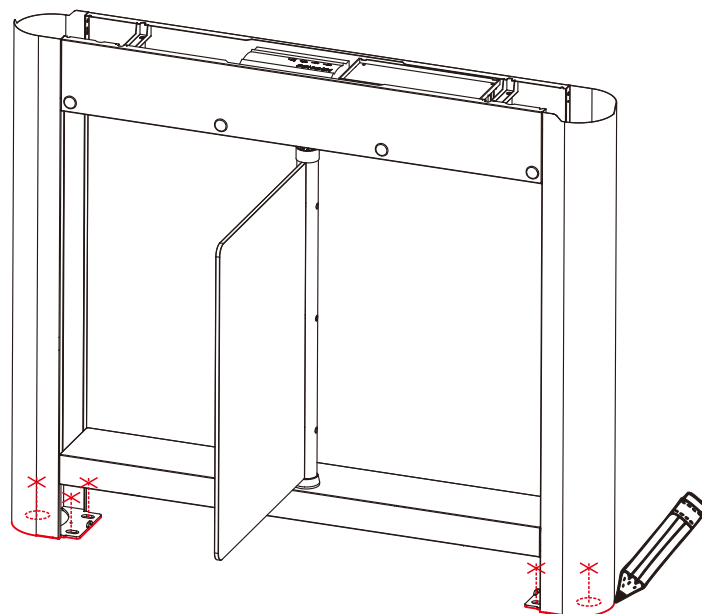
## Step 2 Determine the Mounting Location

1. Please refer to the user's manual and complete the **power-on self test** operation before installation.
2. Then place the cabinet 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 3 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.

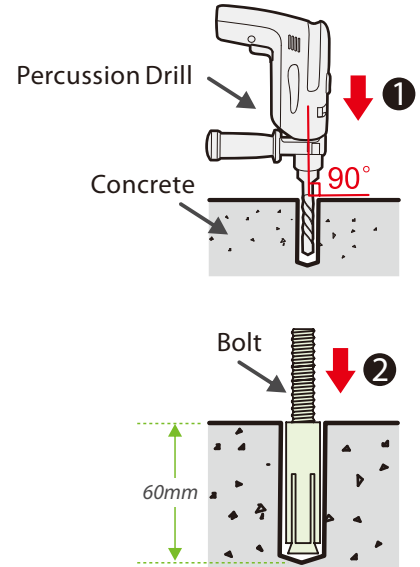
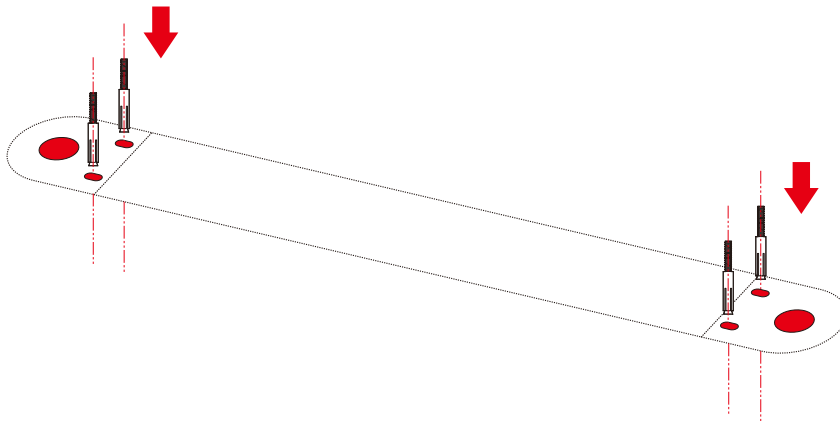




## Step 4 Drill Holes and Place Bolts

1. Using a concrete drill bit, drill the mounting holes **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. Make sure the bolts are placed in place. Use a hammer to tap the bolts into place, if needed.

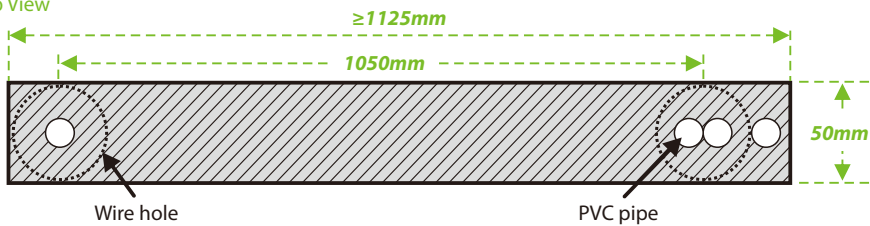
Place bolts into mounting holes



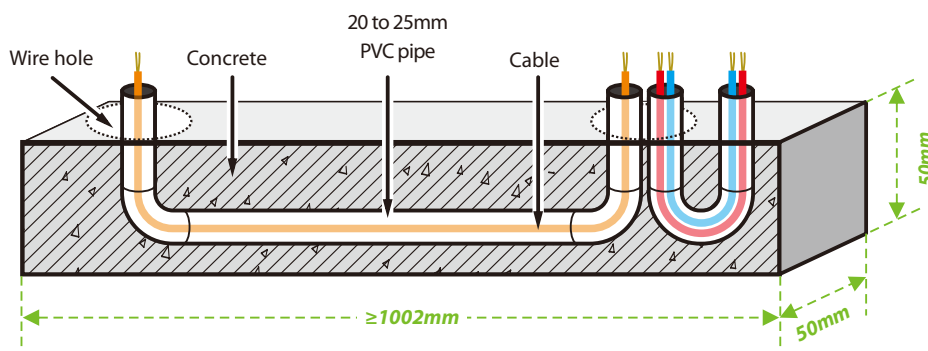
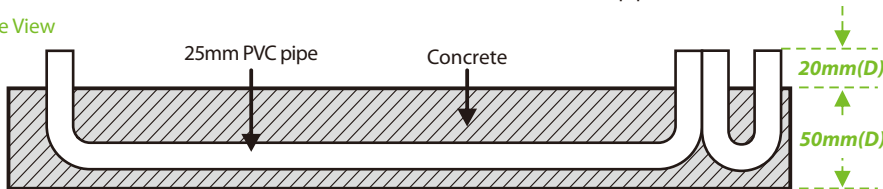
## Step 5 Wireway Laying

1. Dig a recess of **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 **25mm** diameter PVC pipes as shown below.
3. After threading the cable out of the PVC pipe, pour concrete to fix it in place.

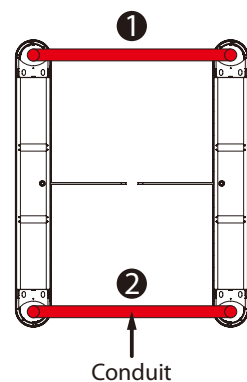
Top View



Side View



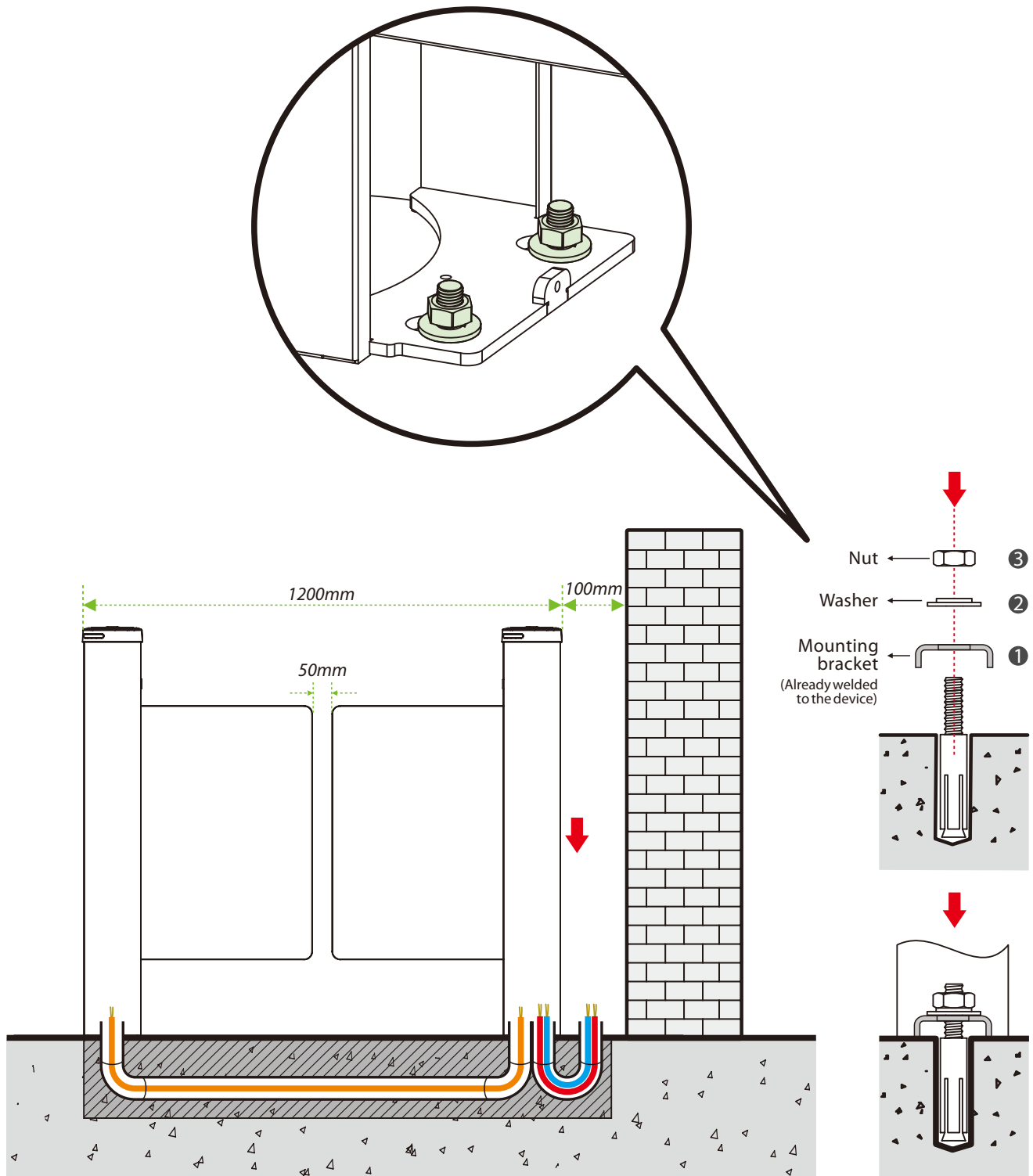
Position of the notch:



- ECU-panel connection wire
- Ethernet cable / Access control cable
- Power cable

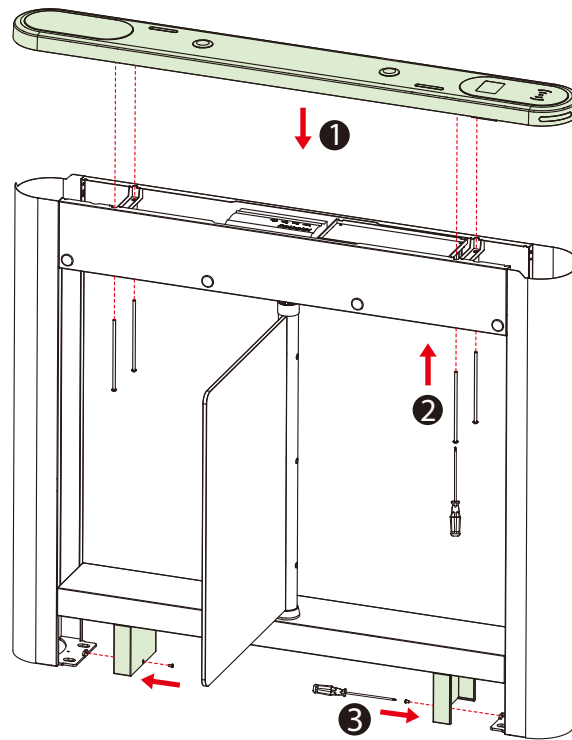
## Step 6 Fixed Cabinet

1. After laying the PVC pipe, place the cabinet alignment bolts back into the mounting position.
2. Then insert the four 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:



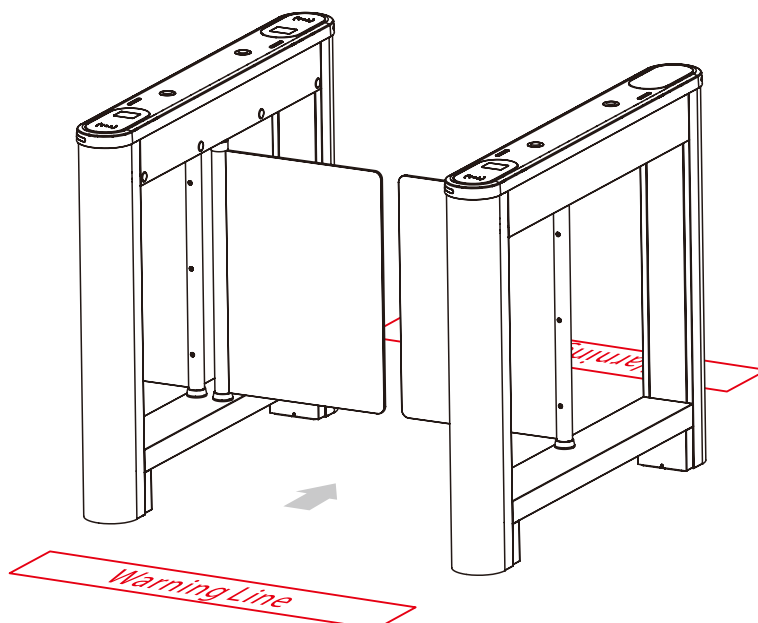
## Step 7 Close the Top Lid and Expansion Screw Cover Plate

Close the top lid and expansion screw cover plate, and secure with screws.

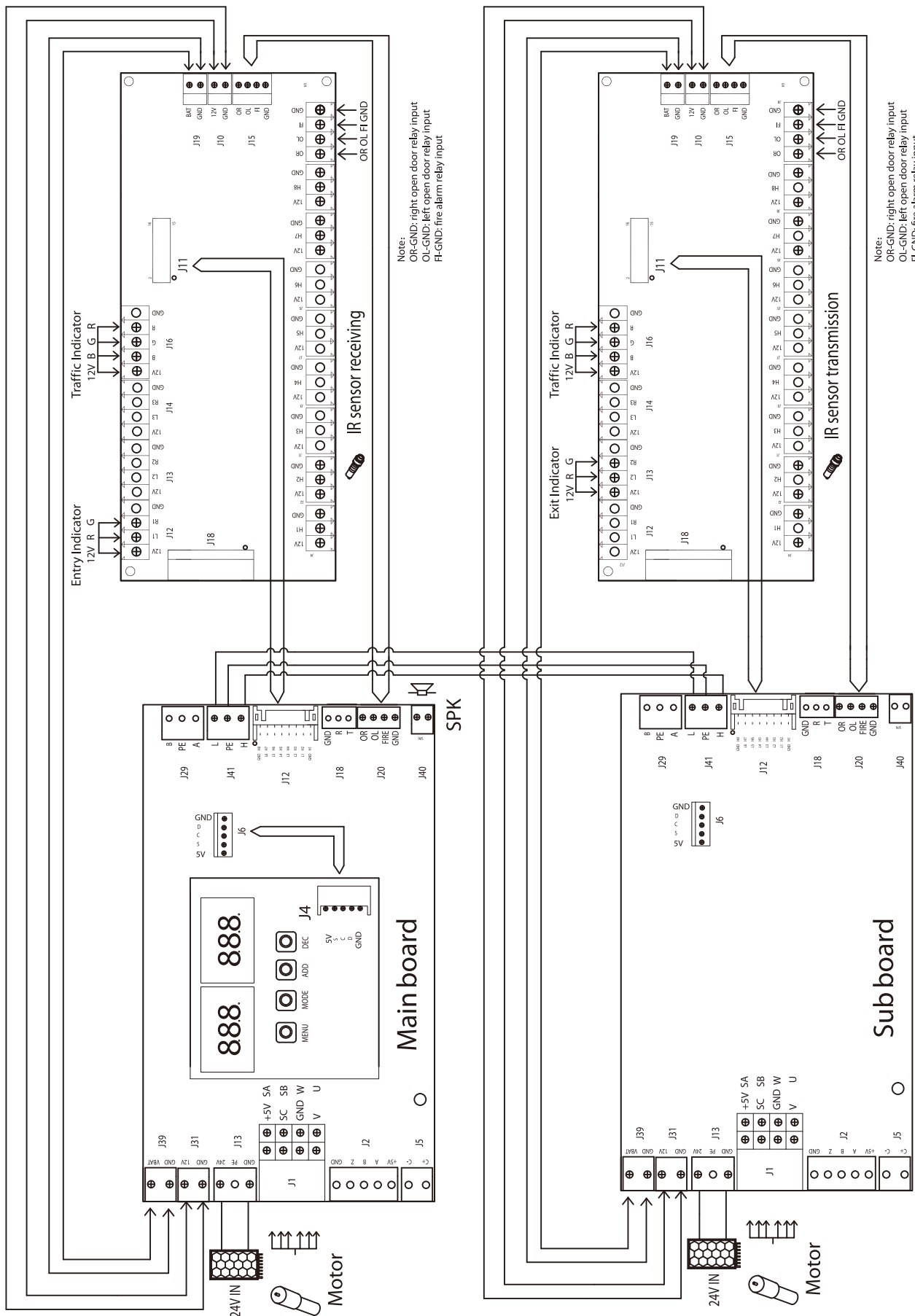


## Step 8 Marking the Warning Line

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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