

Installation Guide

Mars Pro-S1000 Series

Applicable Model(s): Mars Pro-S1000, Mars Pro-S1200

Version: 1.1

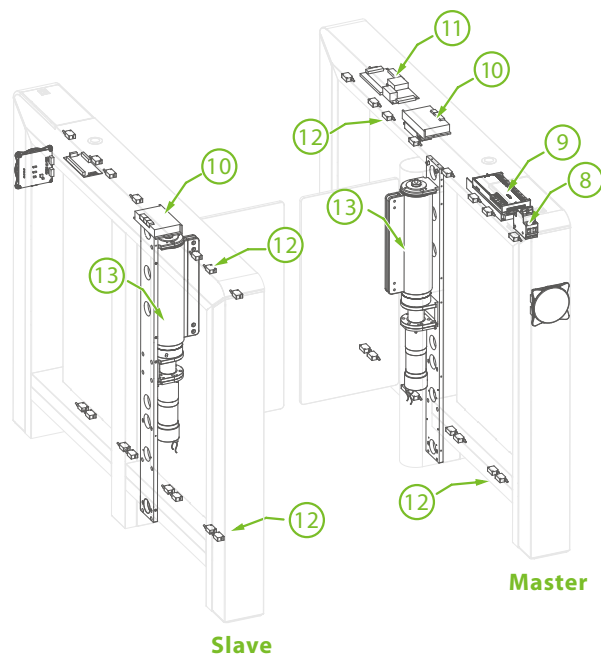
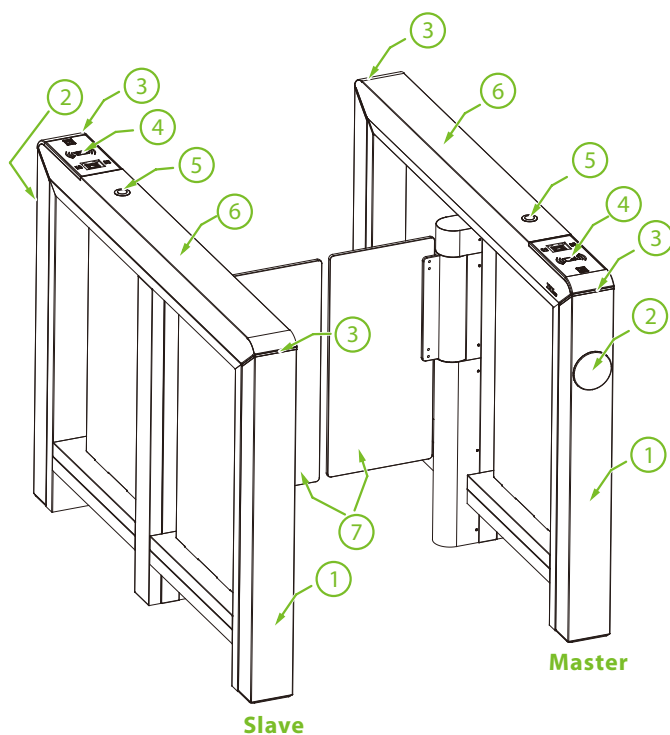


Revision History

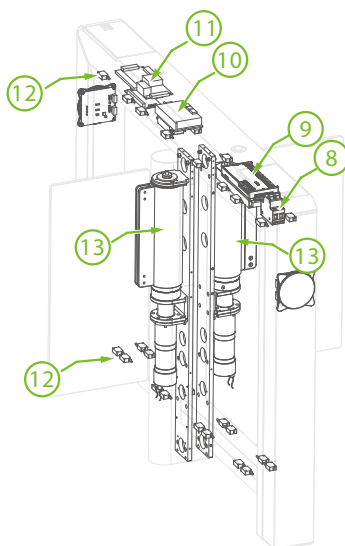
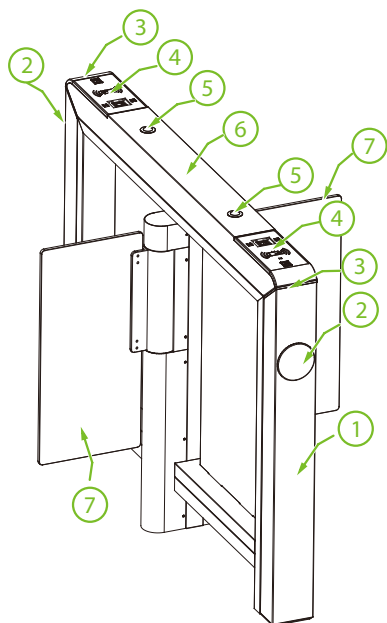
Revision	Date	Author	Reviewer	Description
V1.0	09/28/2021	Yang Kaijin		Original Document
V1.1	02/17/2025	Huang Liye		The control board, and wiring diagram have been changed.

1 Overview

Mars Pro-S1000



Mars Pro-S1200

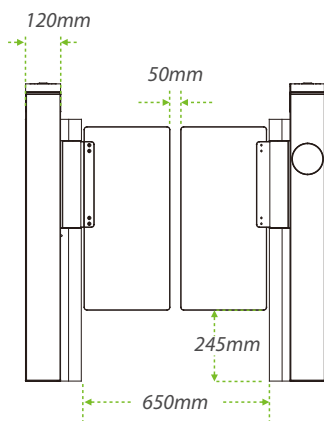


- | | | | |
|---|---------------------------------|-------------------------------|--------------------|
| 1 Side Lid | 2 Direction Indicator | 3 Traffic Indicator | 4 Authentication |
| 5 Reserve Mounting Holes (for Face Devices) | 6 Top Lid | 7 Door Leaf | 8 Air Switch |
| 9 Access Controller Board | 10 Servo Motor Drive Controller | 11 Turnstile Controller Board | 12 Infrared Sensor |
| 13 Core Component | | | |

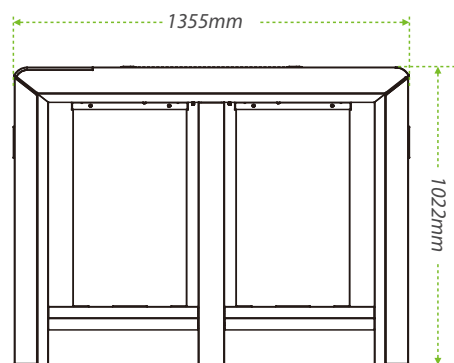
2 Dimensions

Mars Pro-S1000

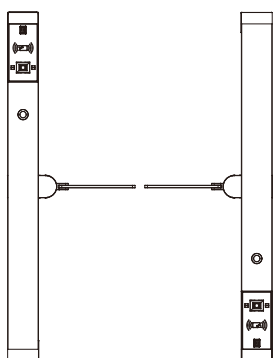
Front View



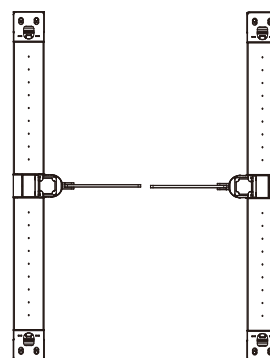
Side View



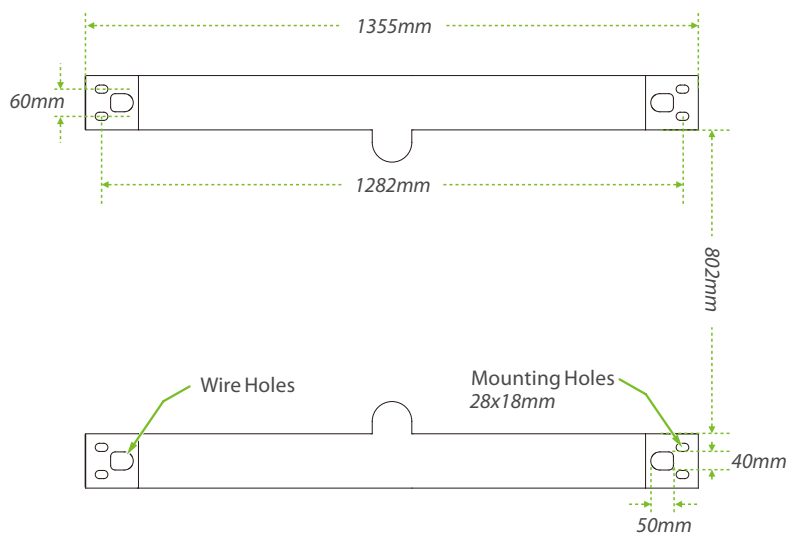
Top View



Bottom View

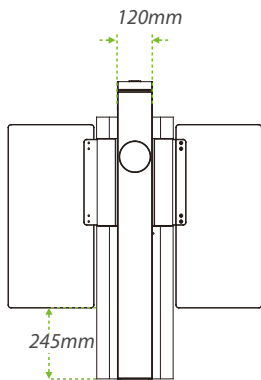


Bottom Mounting Hole

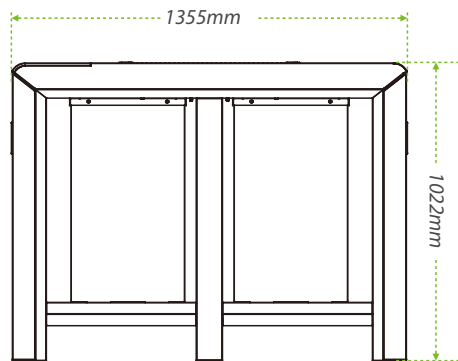


Mars Pro-S1200

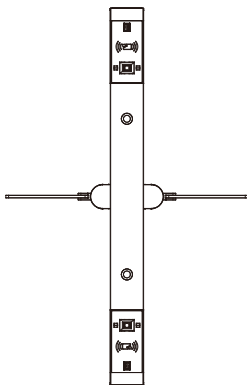
Front View



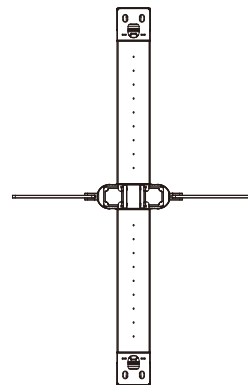
Side View



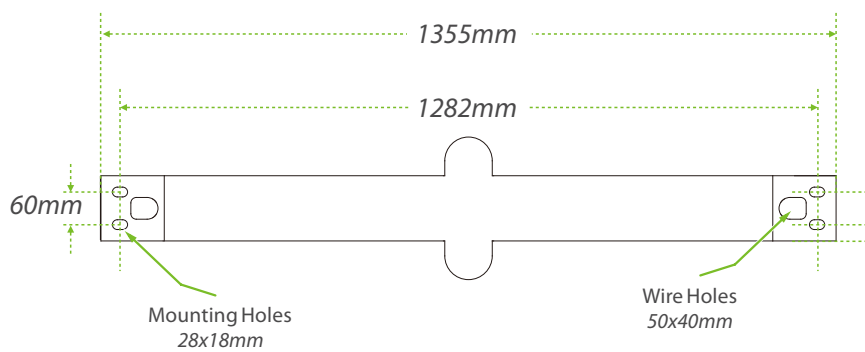
Top View



Bottom View



Bottom Mounting Hole



3 System Composition

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

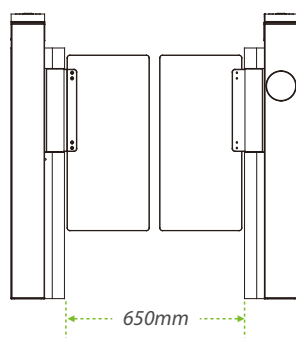
● Single-lane

Dimensions of the door leaf (available):

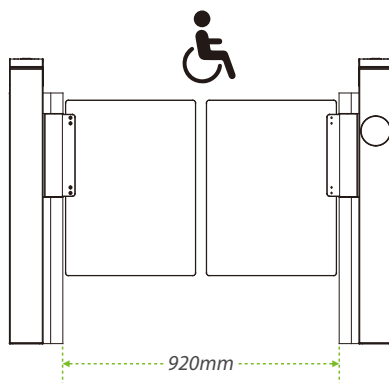
(630*295mm)(H*W)(Standard)

(630*425mm)(H*W)(Optional)

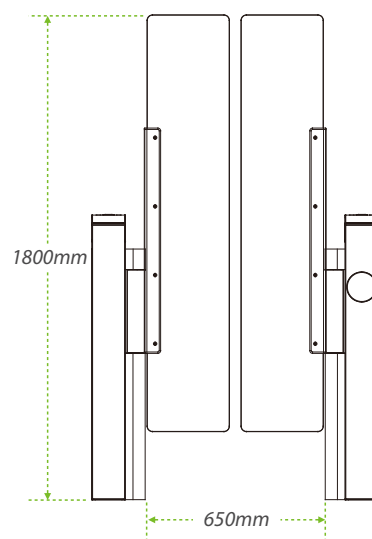
(1047*295mm)(H*W)(Optional)



Standard Lane

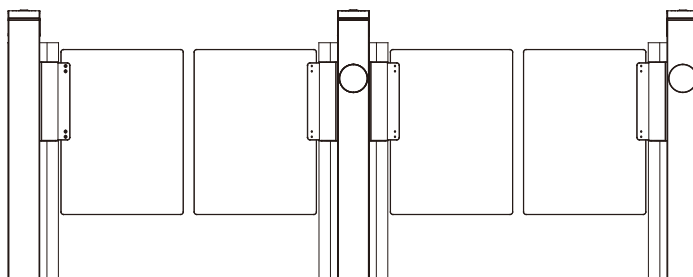
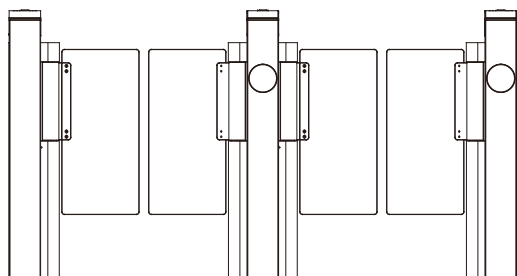


Wide Lane / ADA Lane

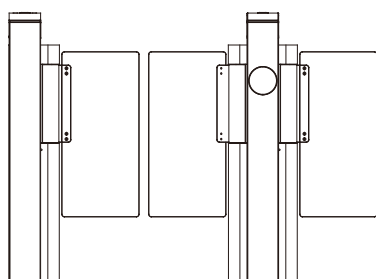


High-barrier Lane

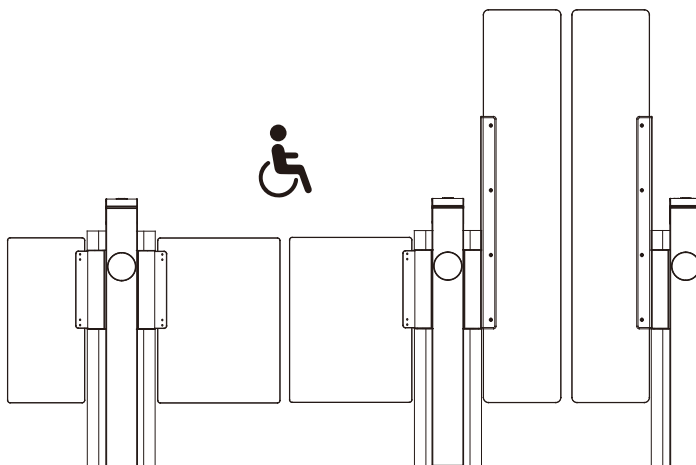
● Dual-lane



● Multi-lane

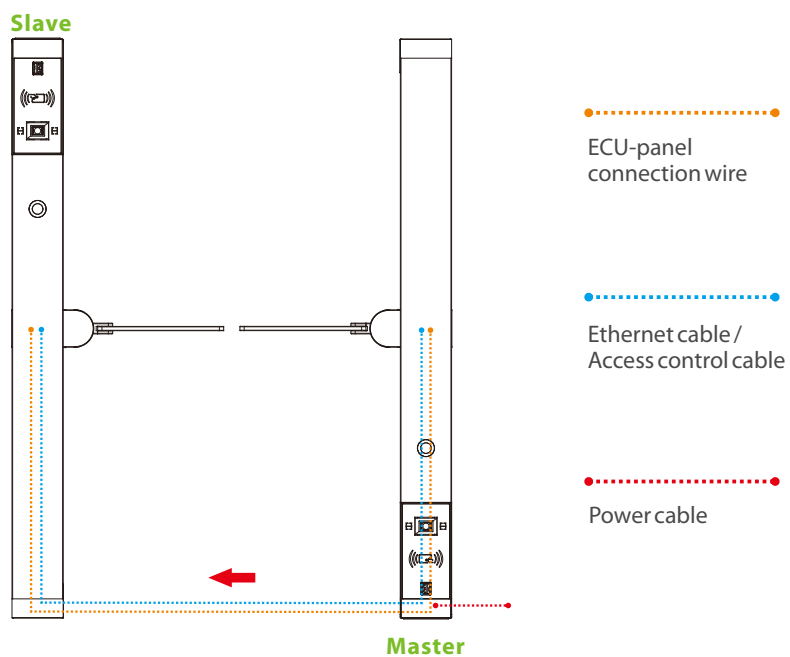


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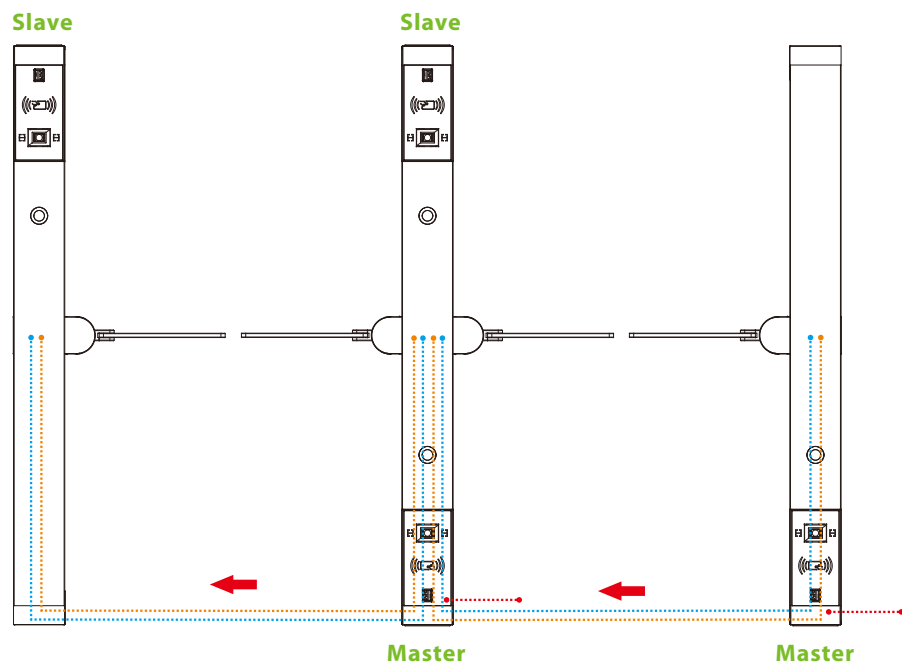


4 Wiring

● Single-lane wiring



● Dual-lane wiring



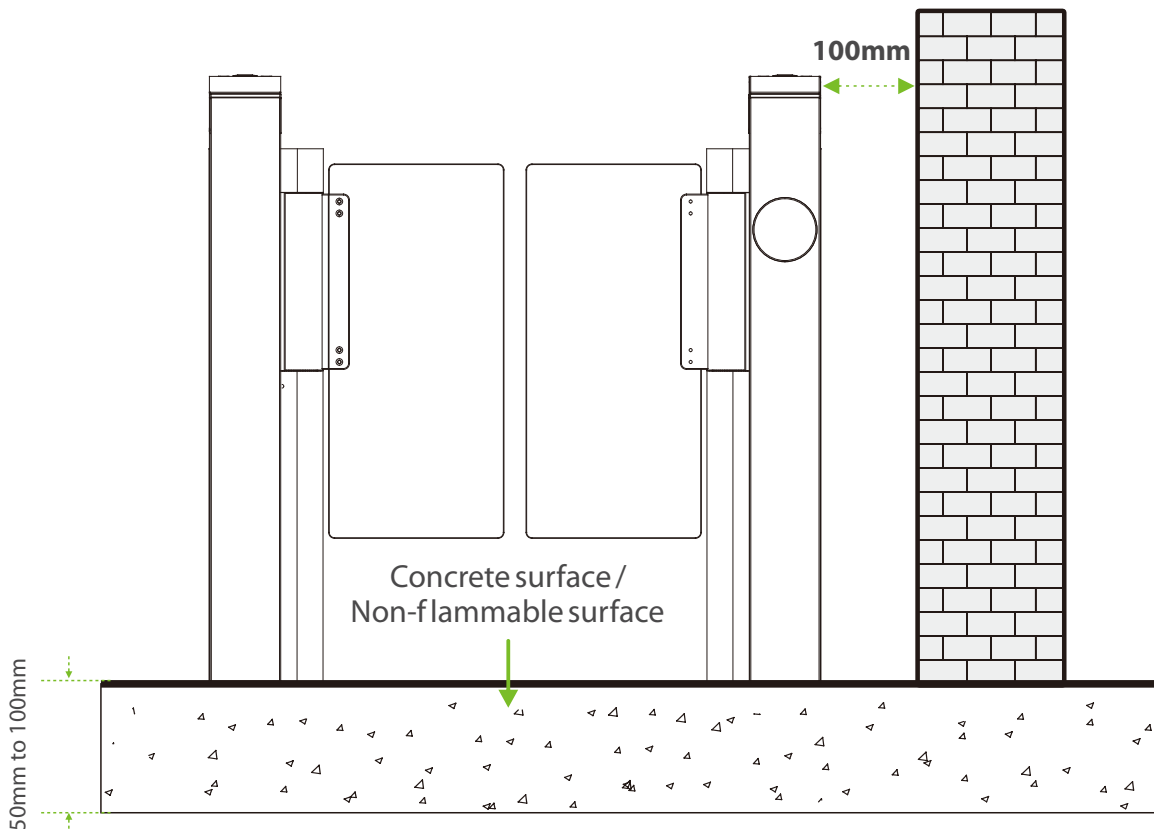
Remarks: The multi-lane wiring method is similar.

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

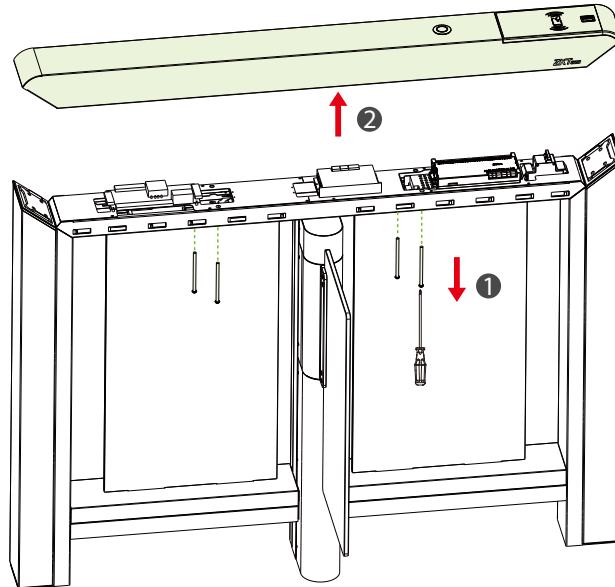
1. Before installation begins, prepare installation tools, check the device and the accessories, and clear the installation base.
2. Make sure that the appliance is mounted on a concrete surface or other non-flammable surfaces.
3. The installation position of the turnstile depends on its size. A distance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



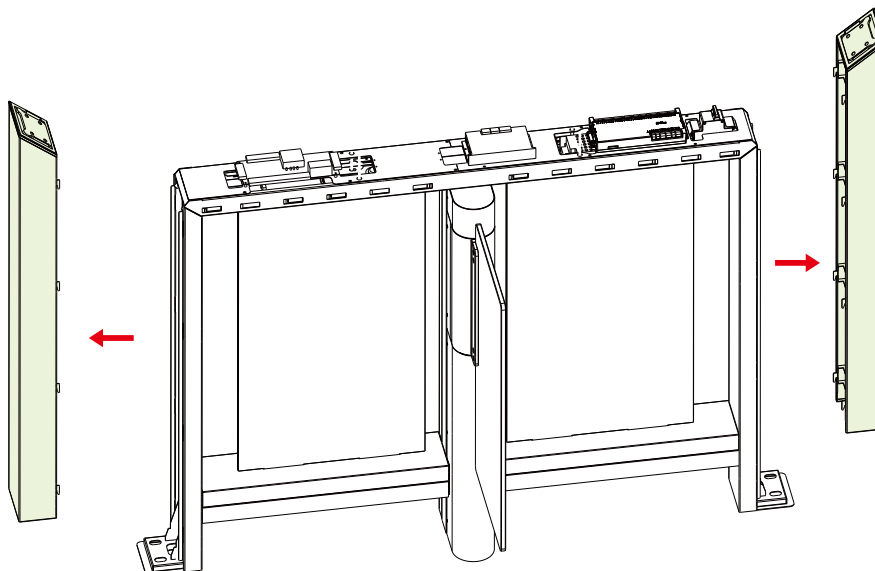
7 Installation Cabinet

Step 1 Remove the Top lid and Side Lid

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

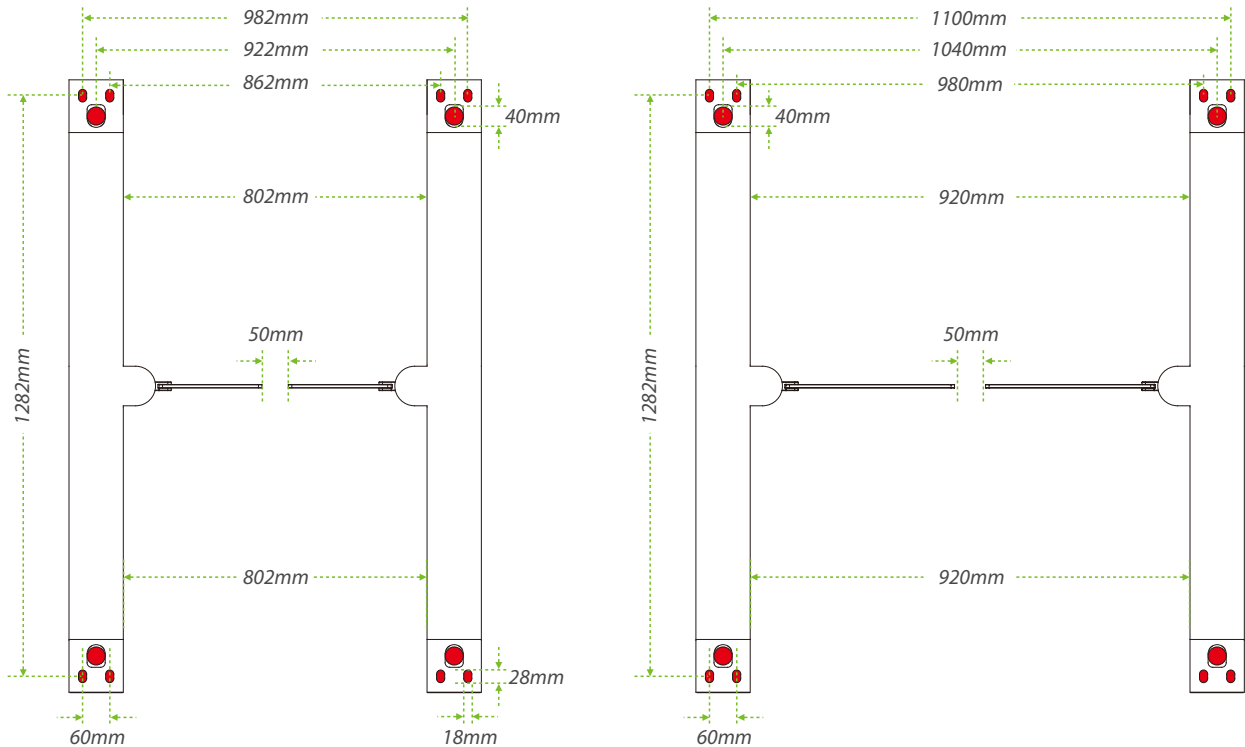


2. Remove the side lid that hang on the device.



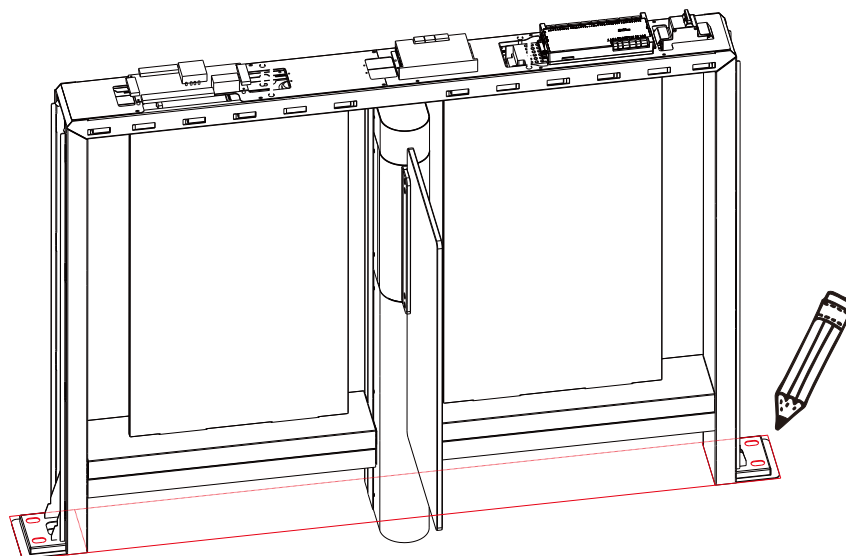
Step 2 Determine the Mounting Location

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.



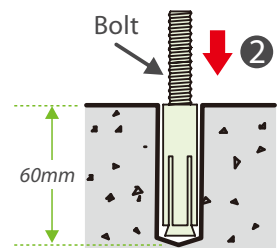
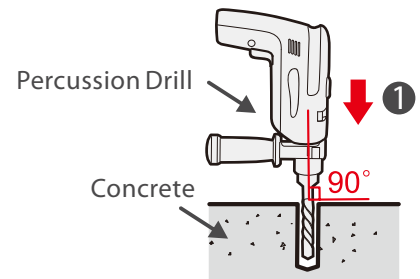
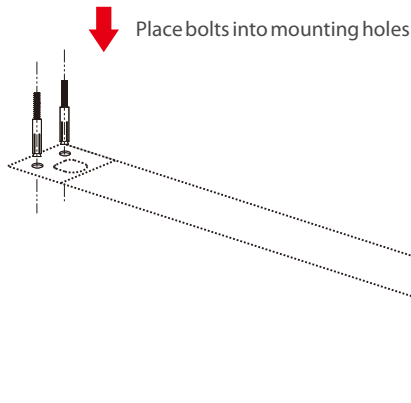
Step 3 Marker Position

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

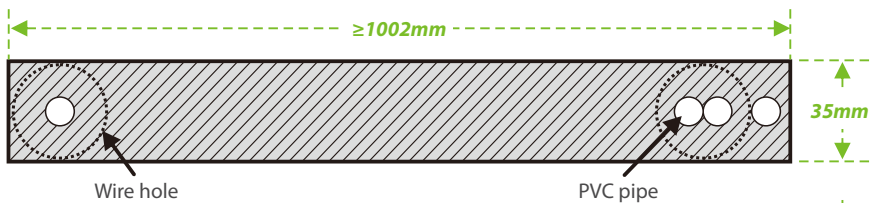
1. Using a concrete drill bit, drill the mounting holes **60mm** in depth at the center of each marked location.
2. Then insert the bolts vertically into the mounting holes as shown at right.
3. Make sure the bolts are placed in place. Use a hammer to tap the bolts into place, if needed.



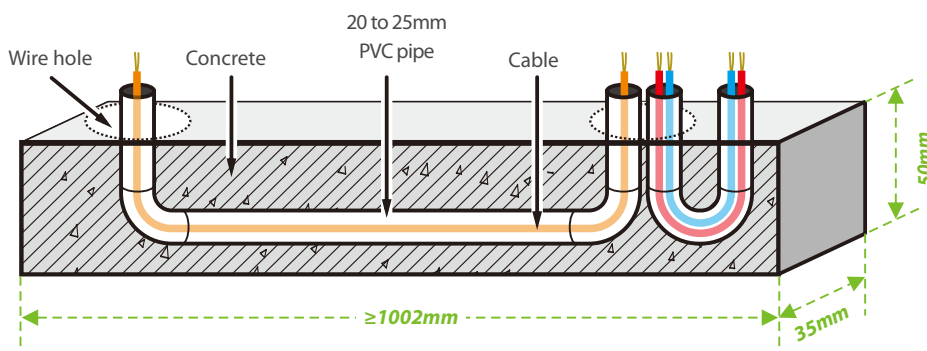
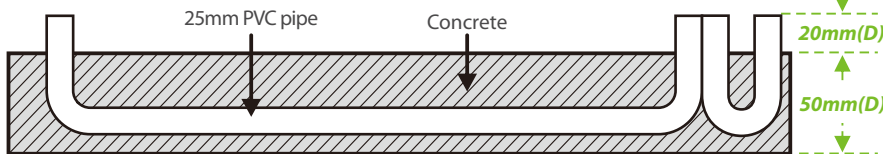
Step 5 Wireway Laying

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.

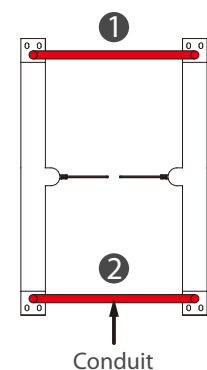
Top View



Side View



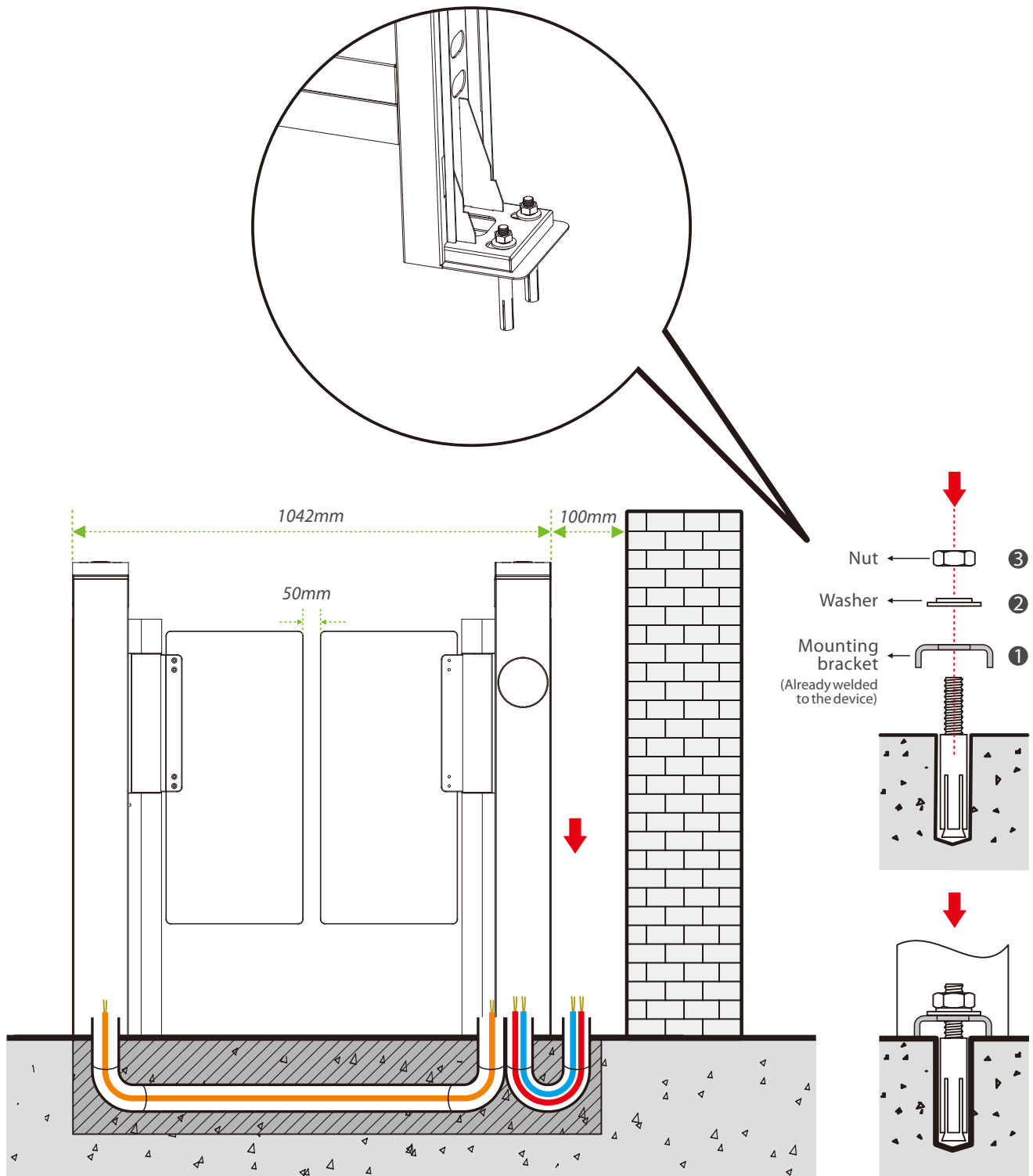
Position of the notch:



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

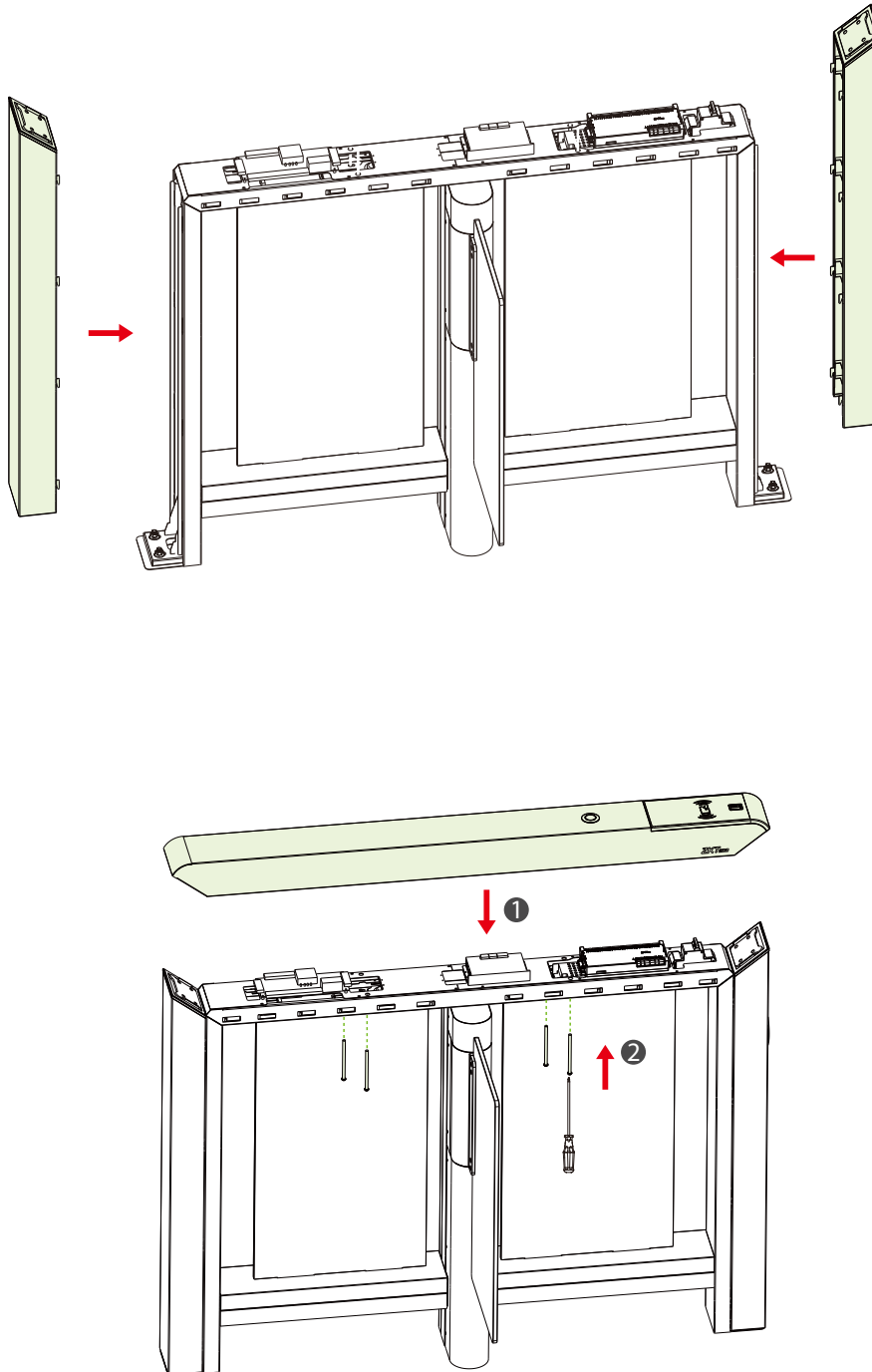
Step 6 Fixed Cabinet

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:



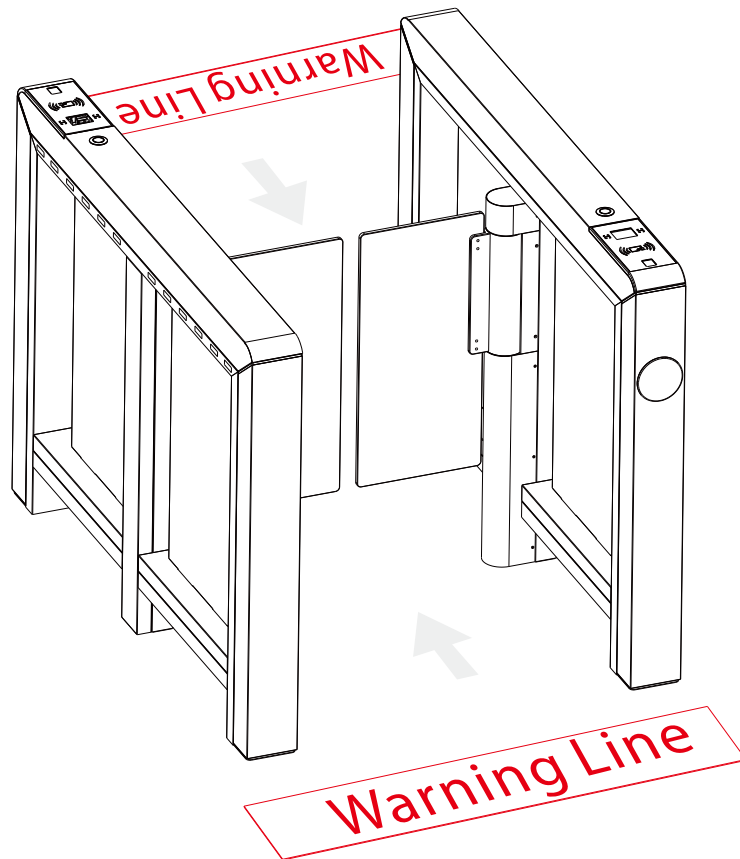
Step 7 Close the Side Lid and Top Lid

Close the side lid and top lid, and secure with screws.

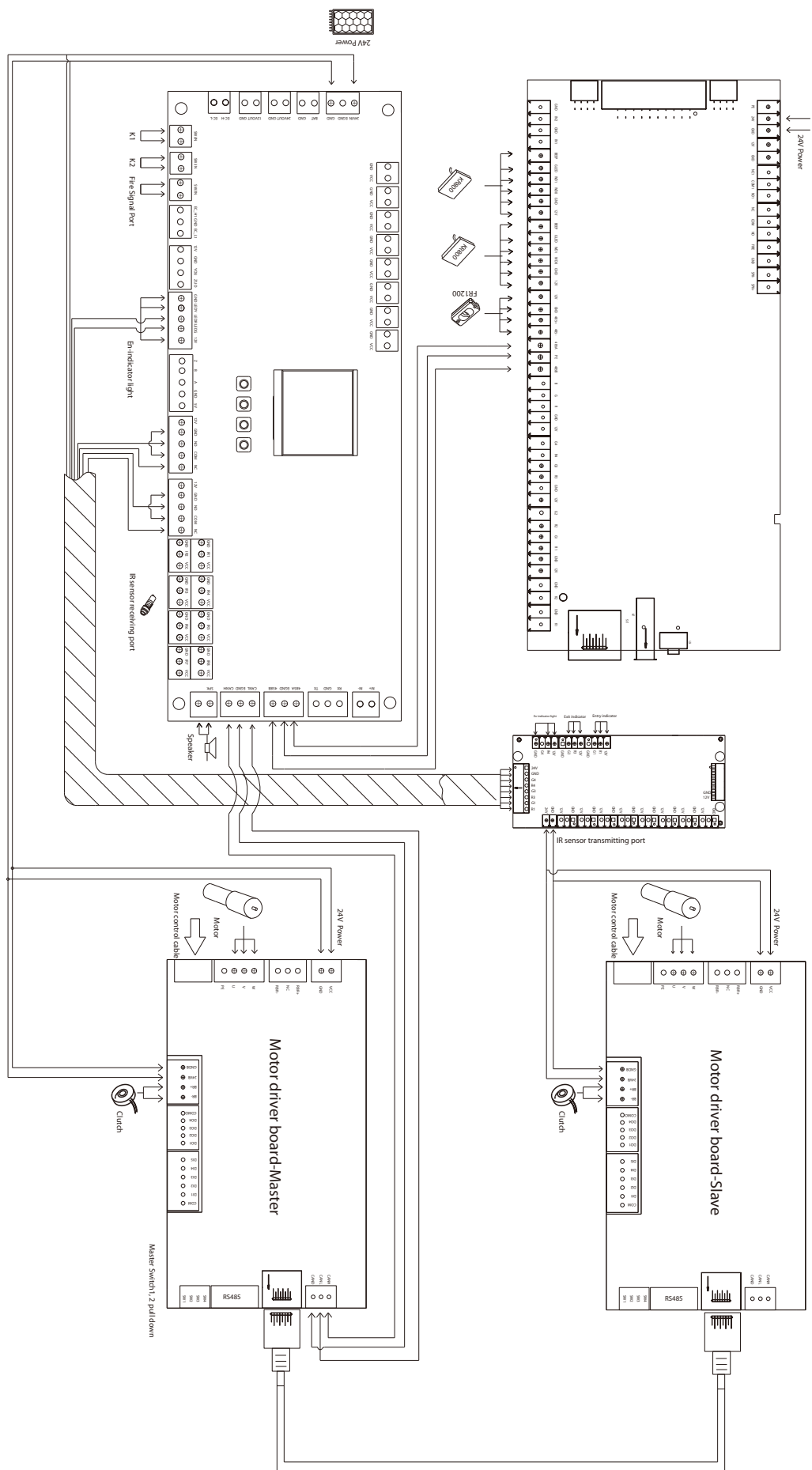


Step 8 Marking the Warning Line

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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