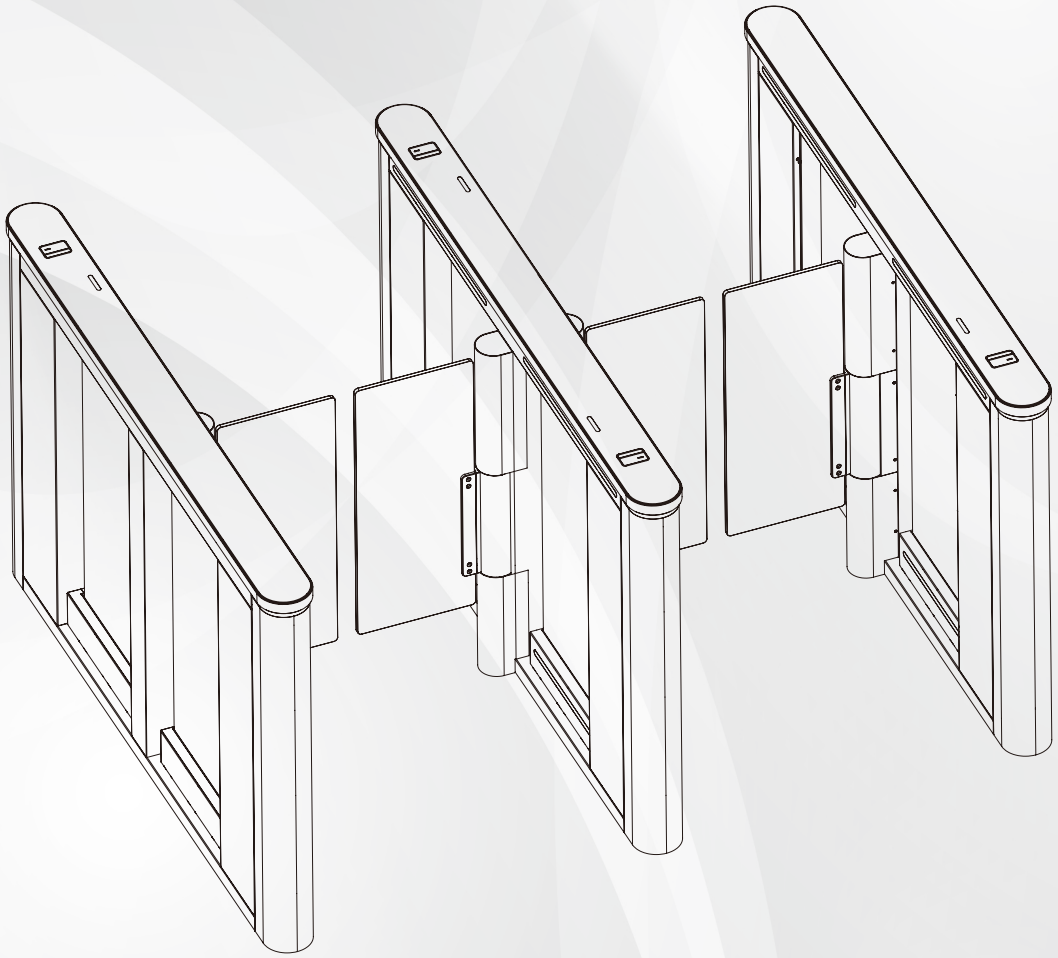
TURNSTILES.us

# Installation Guide

## OTSG9000/SBTL8000 Series Swing Barrier

**Applicable Model(s):** OTSG9000, OTSG9011, OTSG9022, OTSG9033, OTSG9200, OTSG9211, OTSG9222, OTSG923 SBTL8000, SBTL8200, SBTL000WP, SBTL8200WP

Version: 1.0



Due to regular upgrades of systems and products, the manufacturer does not guarantee exact consistency between the actual product and the written information in this manual.

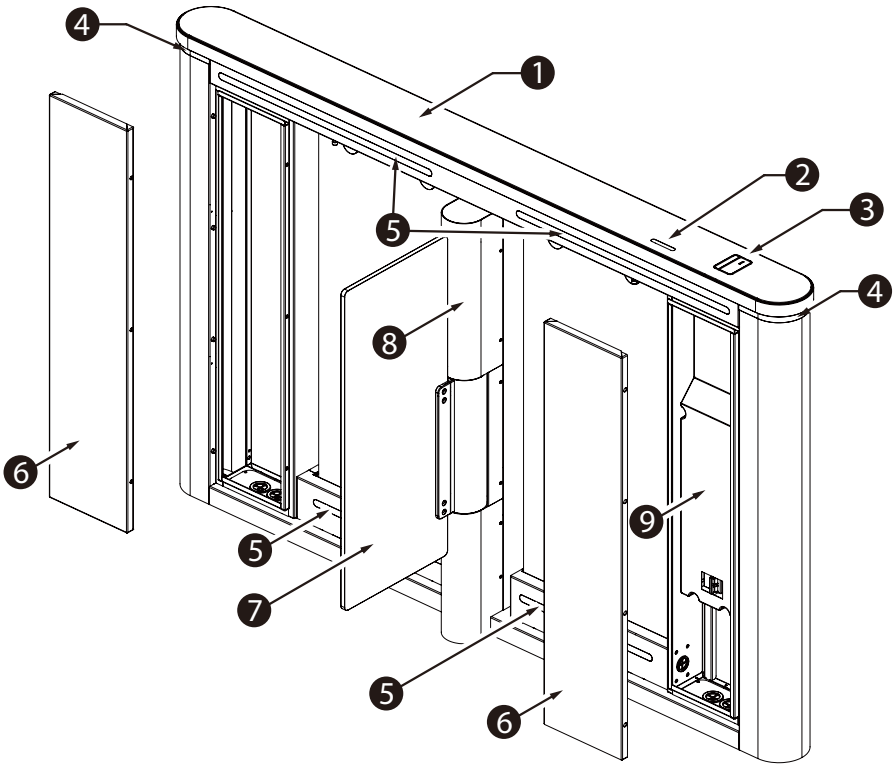
www.TURNSTILES.us | patrick.mcallister@TURNSTILES.us | 303-670-1099

## *Revision History*

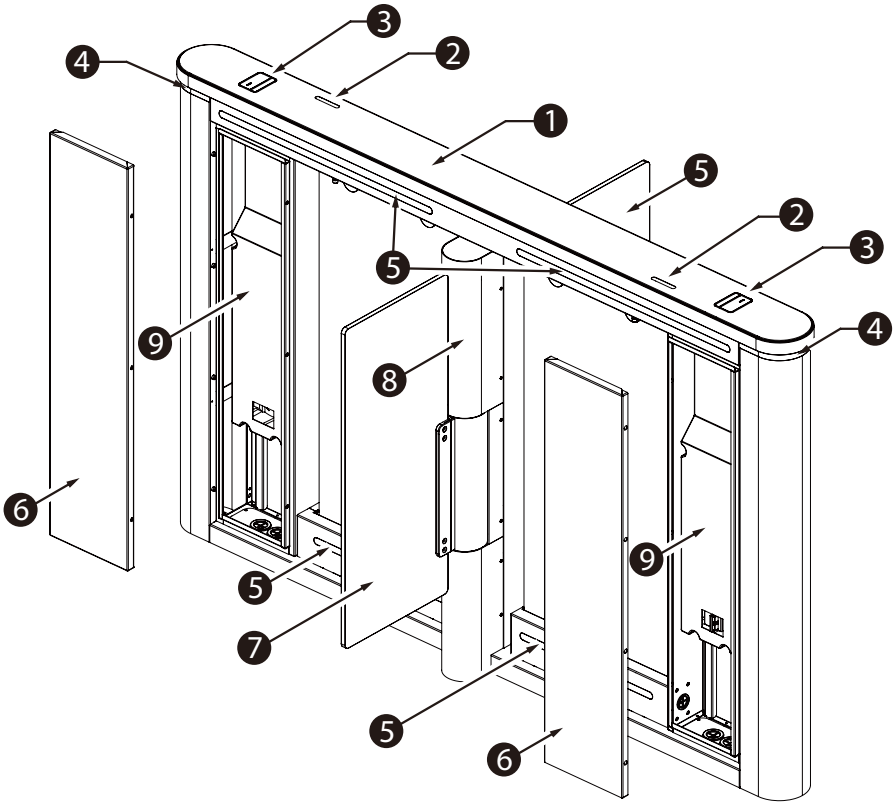
| Revision | Date | Author | Reviewer | Description |
|---|---|---|---|---|
| V1.0 | 12/08/2025 | Julia.Huang | | Original Document |

# 1 Overview

## *OTSG9000/SBTL8000 Series*




## *OTSG9200 / SBTL8200 Series*



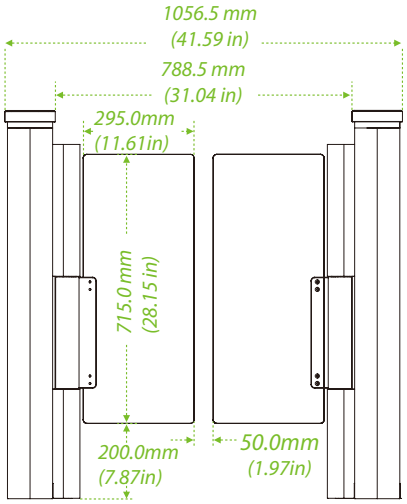

1. Cover Plate
2. Traffic Indicator
3. Card Reading Area
4. Visual Indicator
5. Infrared Sensor
6. Chassis Cover
7. Door Leaf
8. Core Component
9. Waterproof Cover for Electrical Controls

# 2 Dimensions

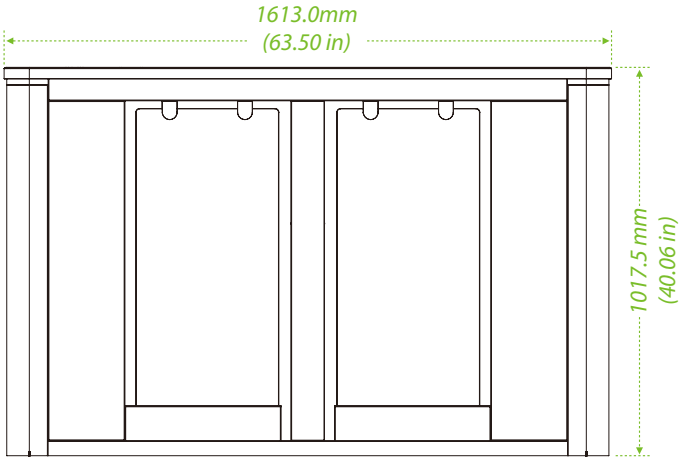
## *OTSG9000 / SBTL8000 Series*

Unit: mm / in

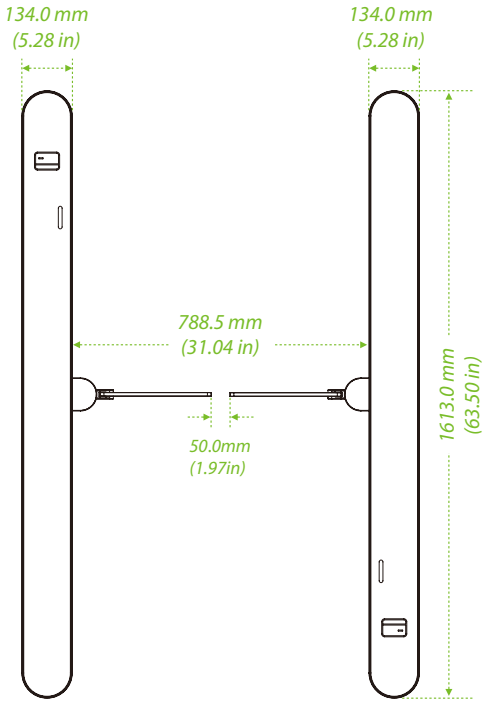
Front View



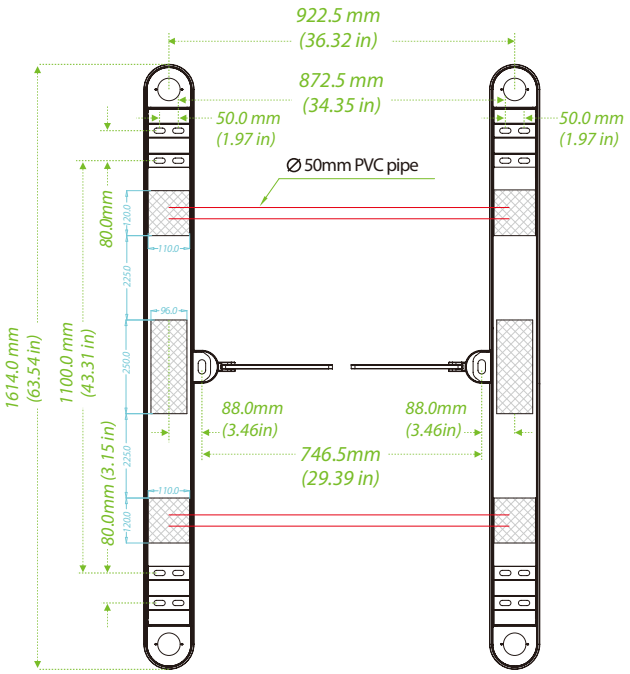

Side View




Top View




Bottom View

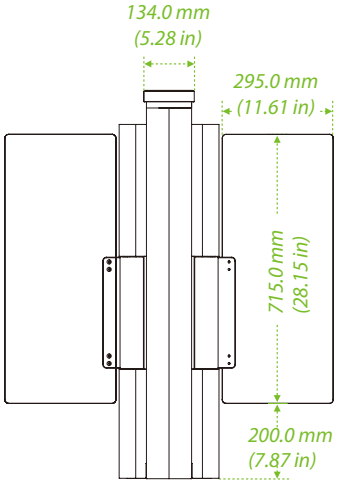



(Note: applies to IP65 rated models: SBTL8000WP and SBTL8200WP. Dimensions at: 1613*134*1031.5mm).

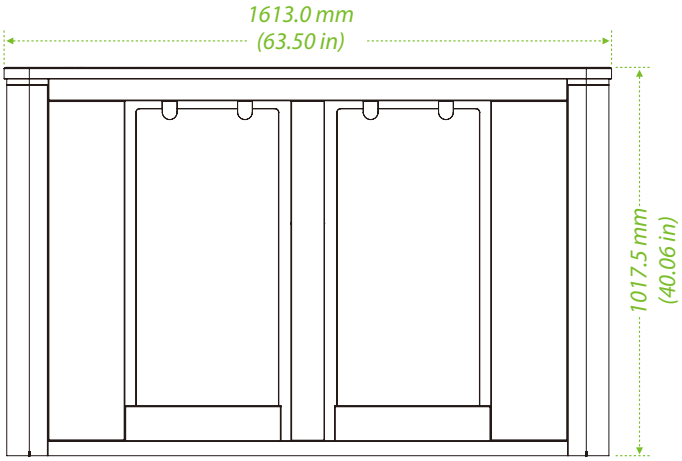
# *OTSG9000 / SBTL8200 Series*
# *Center Lane Module*

Unit: mm / in

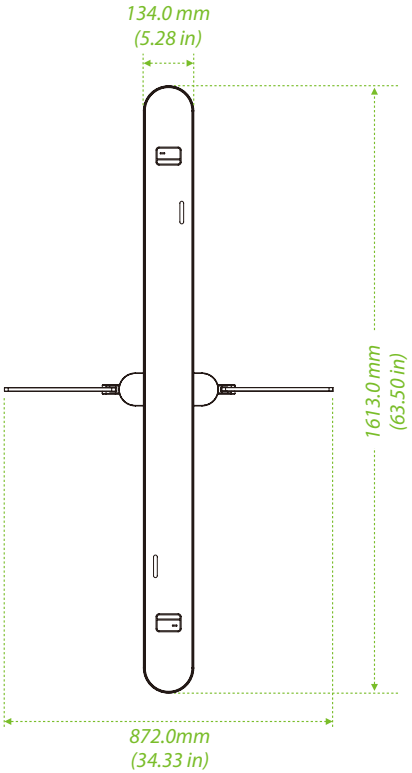
Front View



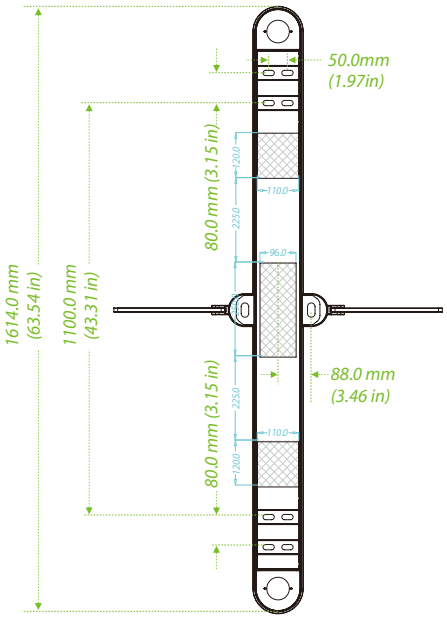

Side View




Top View




Bottom View



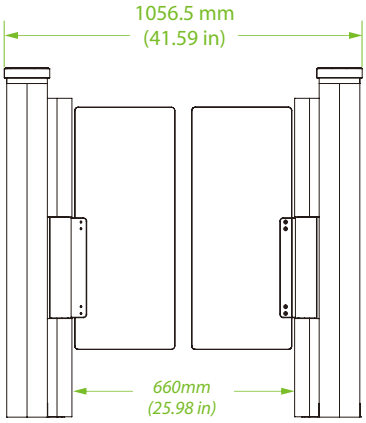

(Note: applies to IP65 rated models: SBTL8000WP and SBTL8200WP. Dimensions at: 1613*134*1031.5mm).

# 3 System Composition

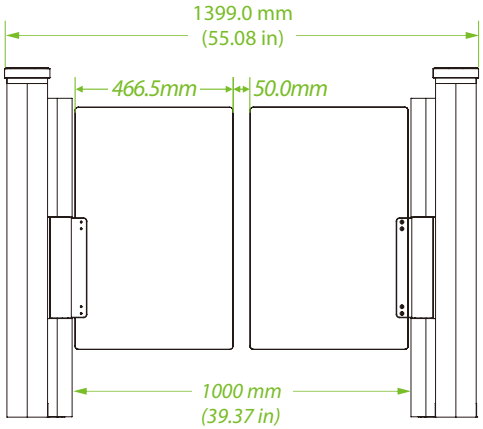
The optical turnstiles can be combined to form a single, dual or multi-lane system, allowing the user to select the appropriate swing arm size according to actual needs. It should be noted that OTSG9200 / SBTL8200 Series needs to be used in conjunction with OTSG9000 / SBTL8000 Series.

Unit: mm / in

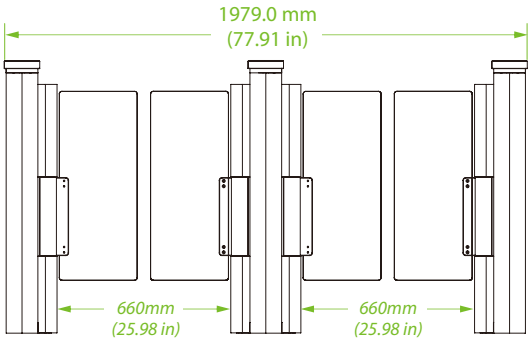
## ● Single-lane

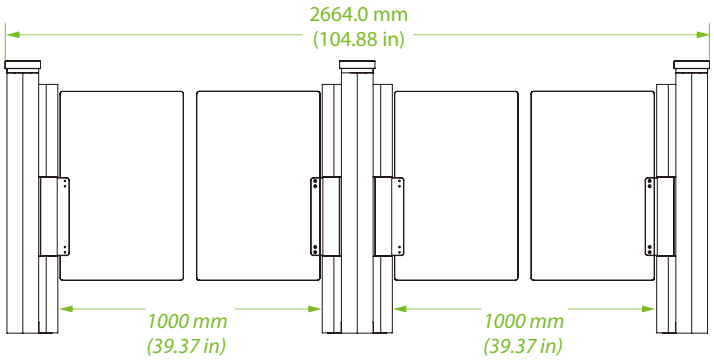



## ● Wide-lane (Optional)

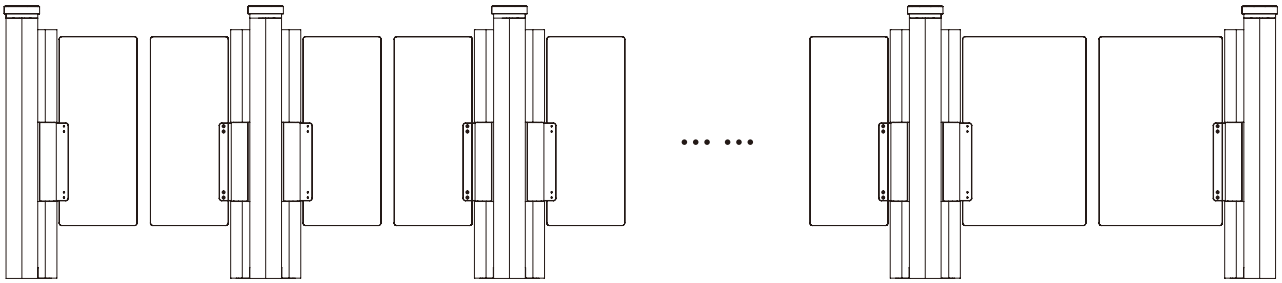



## ● Dual-lane



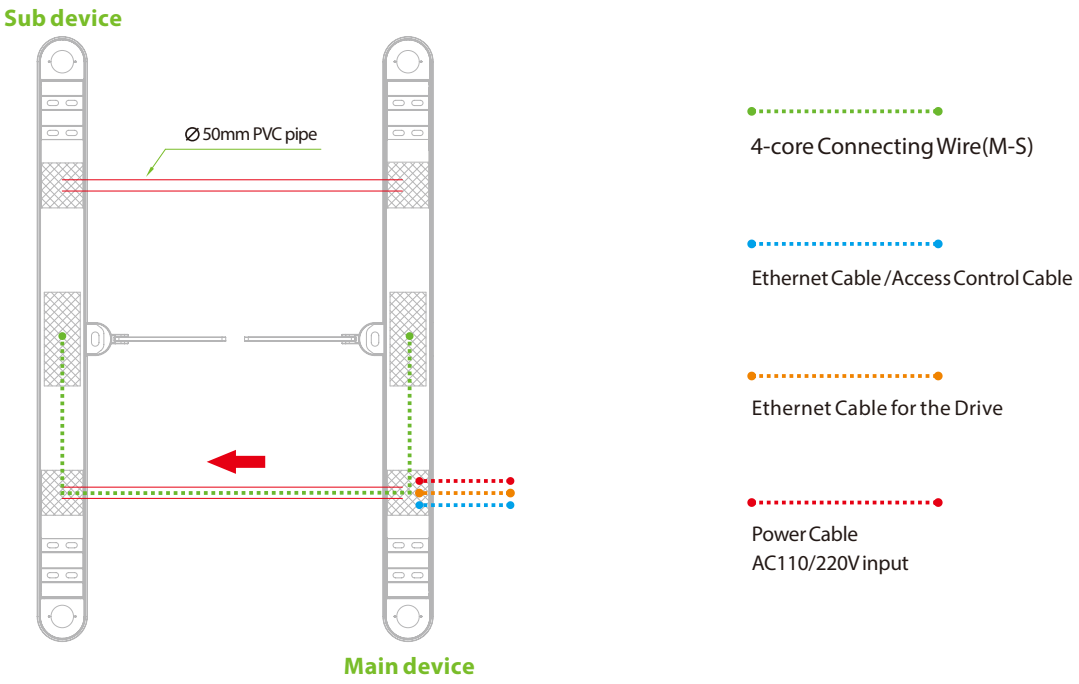




## ● Multi-lane

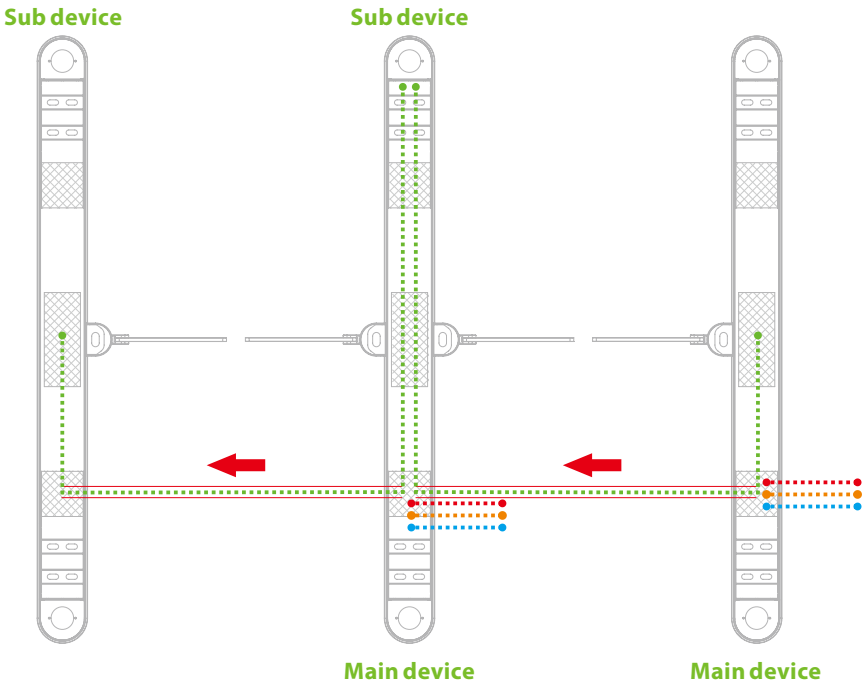


# 4 Wiring

## ● Single-lane wiring




## ● Dual-lane wiring



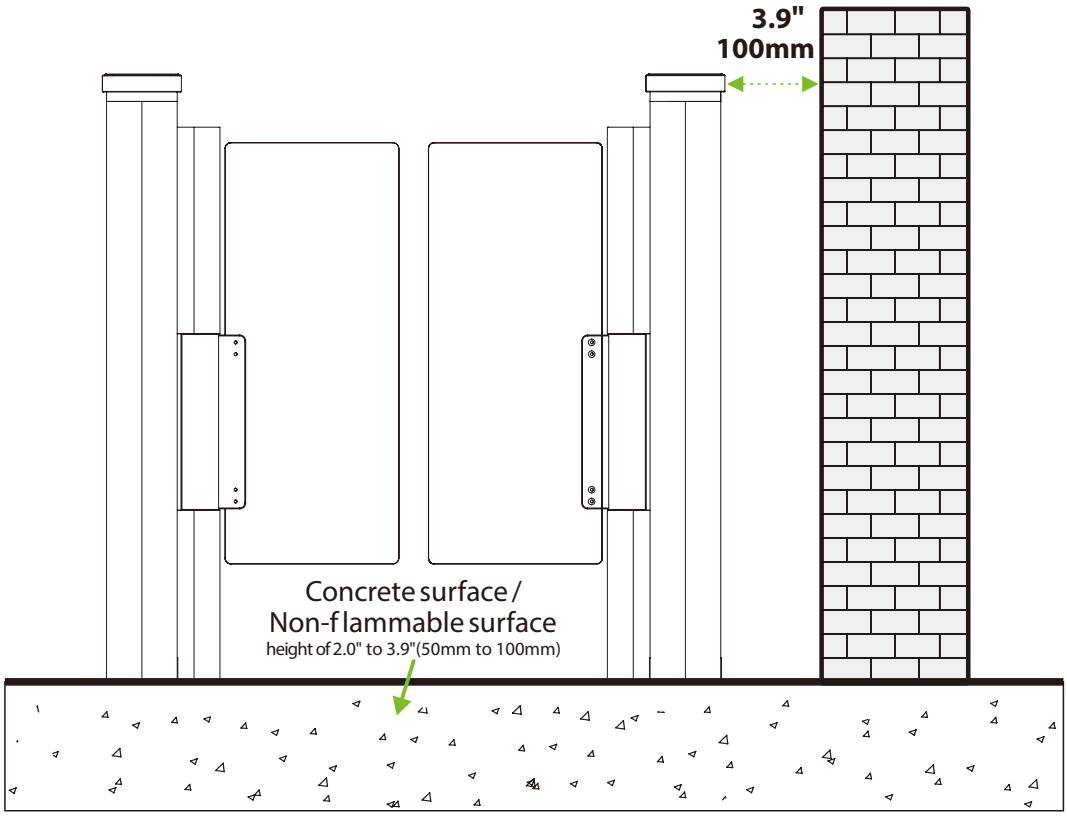

**Remarks:** The multi-lane wiring method is similar.

# 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

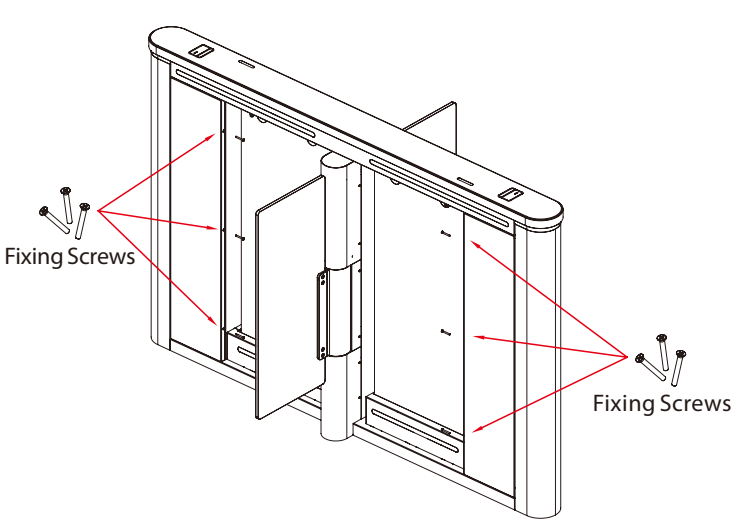
1. Before installation begins, prepare installation tools, check the device and the accessories, and clear the installation base.
2. Make sure that the appliance is mounted on a concrete surface or other non-flammable surfaces.
3. The installation position of the turnstile depends on its size. A distance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

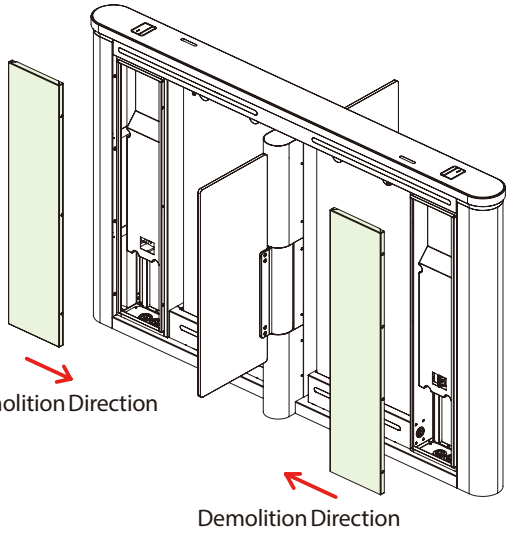


# 7 Installation Cabinet

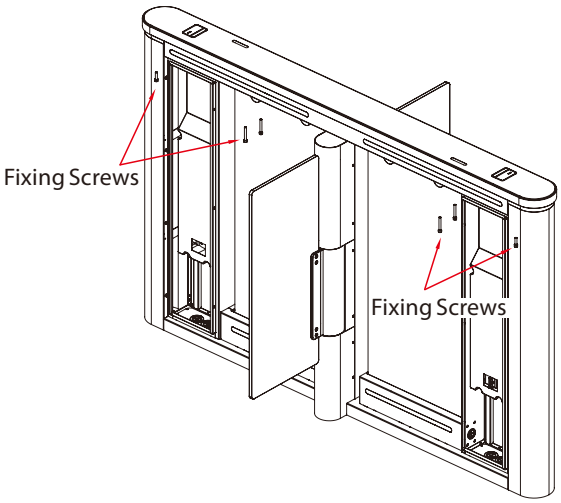
## Step 1 Remove the Chassis Cover and Cover Plate

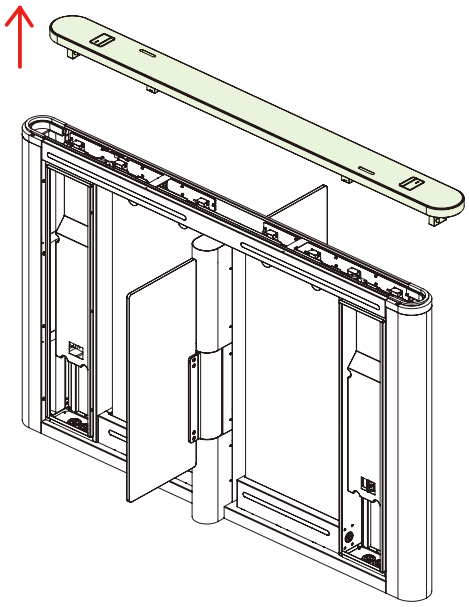
1. Use a screwdriver to loosen the six fixing screws at the indicated locations, then remove the chassis cover in the direction shown.



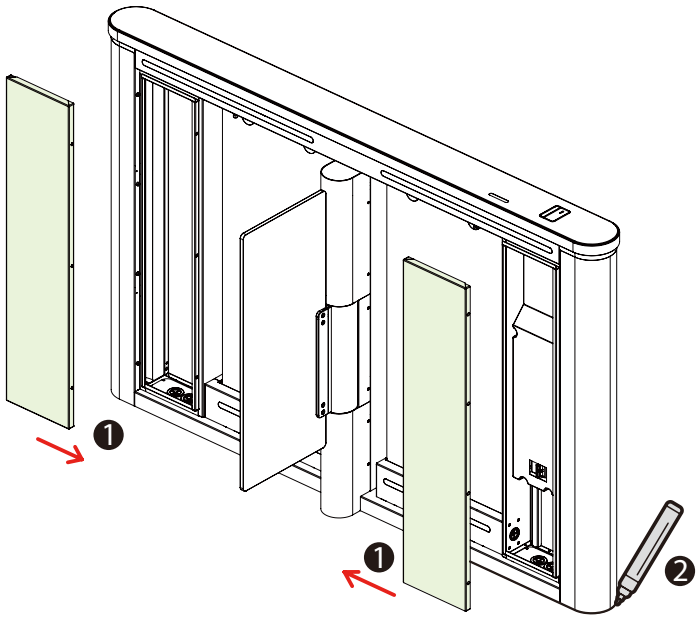

2. Using a Phillips screwdriver, remove the six fixing screws at the locations shown below, then take off the cover plate.



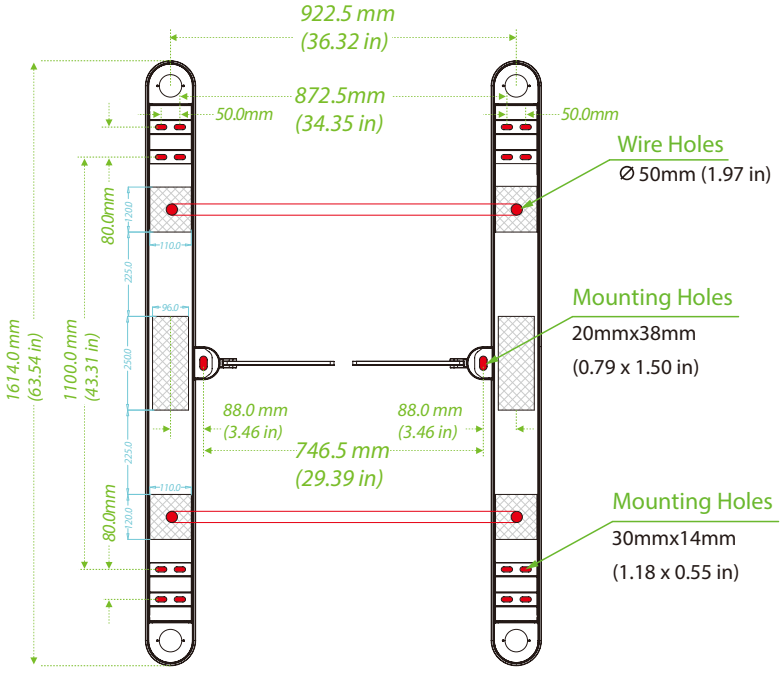
## **Step 2** Marker Position

1. Draw the location of the cabinet with a marker and mark each location of the mounting holes. There will be a total of nine mounting holes and two wire holes per cabinet.
2. Remove the cabinets when finished.



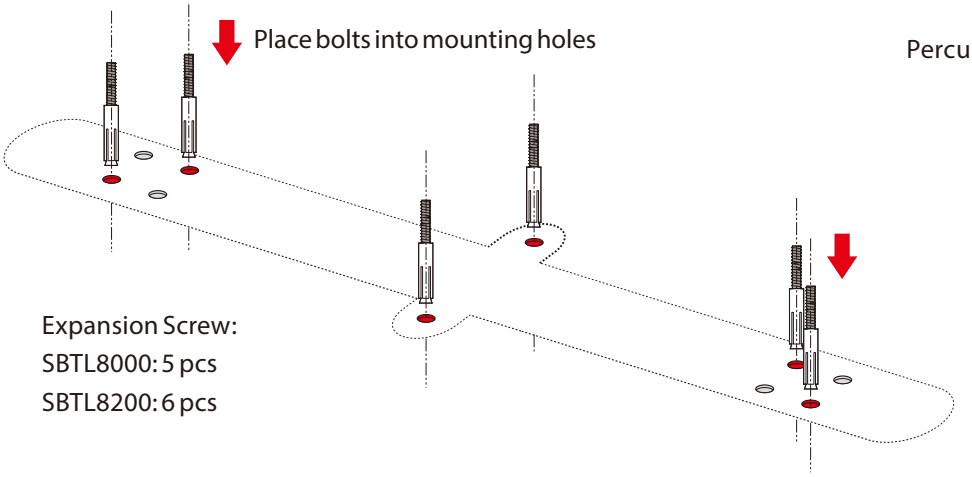

## **Step 3** Determine the Mounting Location

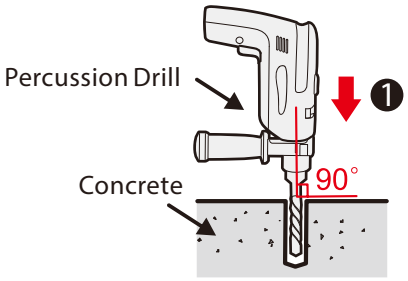
1. Use a tool to open the chassis cover and remove it.
2. Please refer to the user's manual and complete the **power-on self test** operation before installation.
3. Then place the cabinet according to the mounting distances shown in the diagram below. Take care to measure the distance between the bottom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

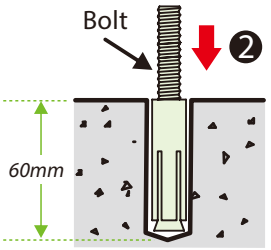


## **Step 4** Drill Holes and Place Bolts

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. Make sure the bolts are placed in place. Use a hammer to tap the bolts into place, if needed.

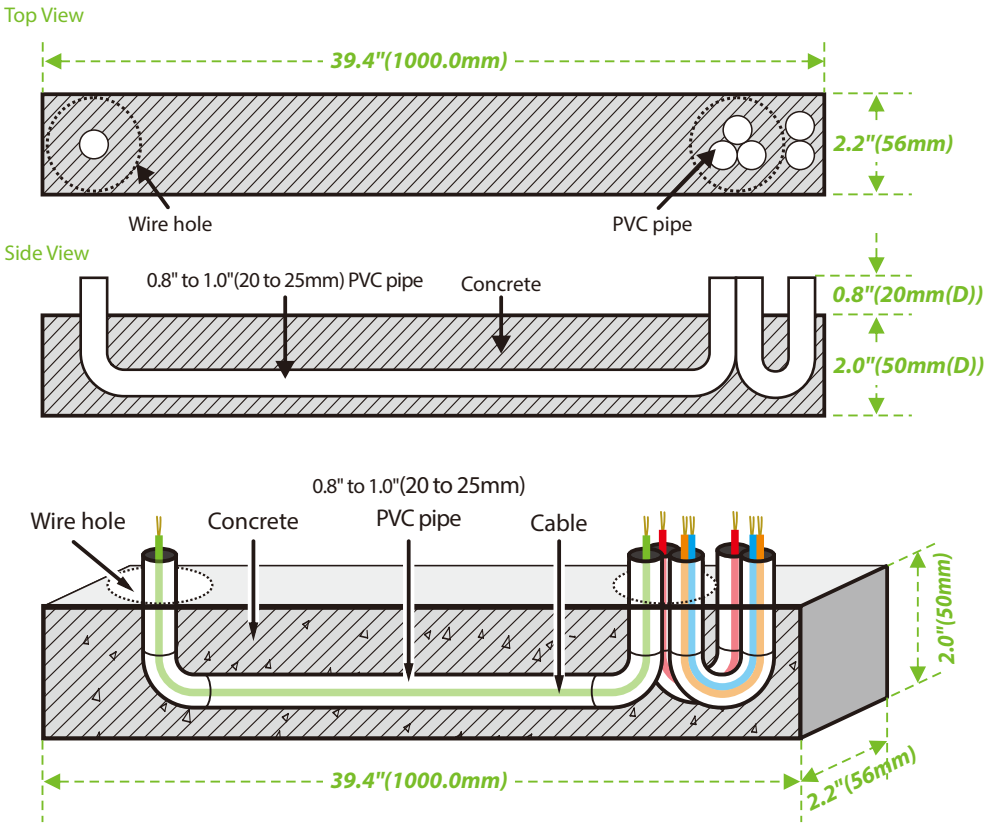


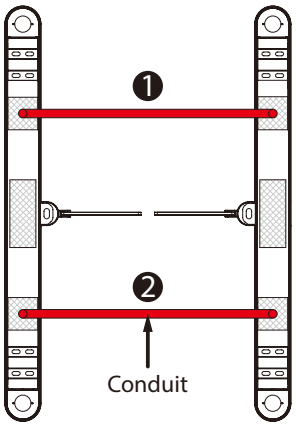



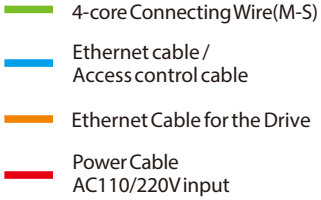

## **Step 5** Wireway Laying

1. Dig a recess of **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.



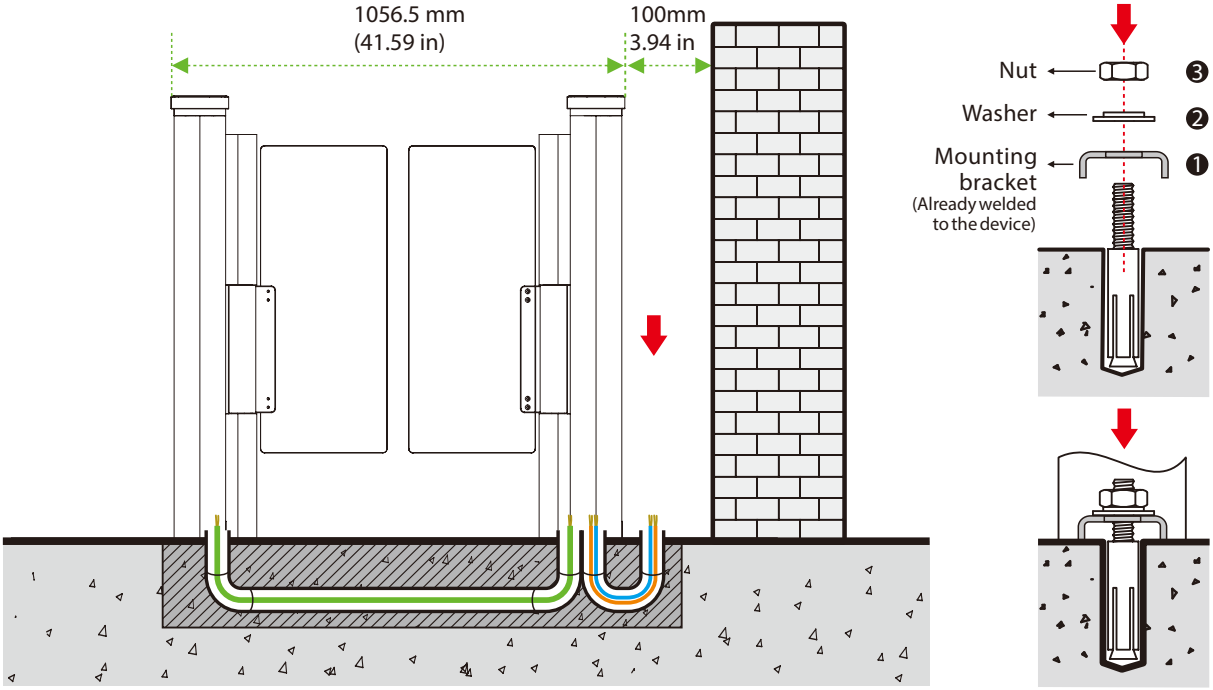

Position of the notch:



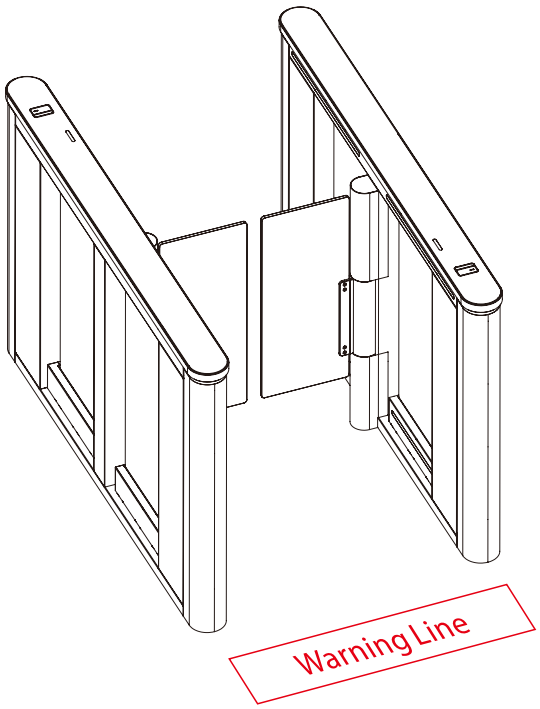
## **Step 6** Secure the Cabinet

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