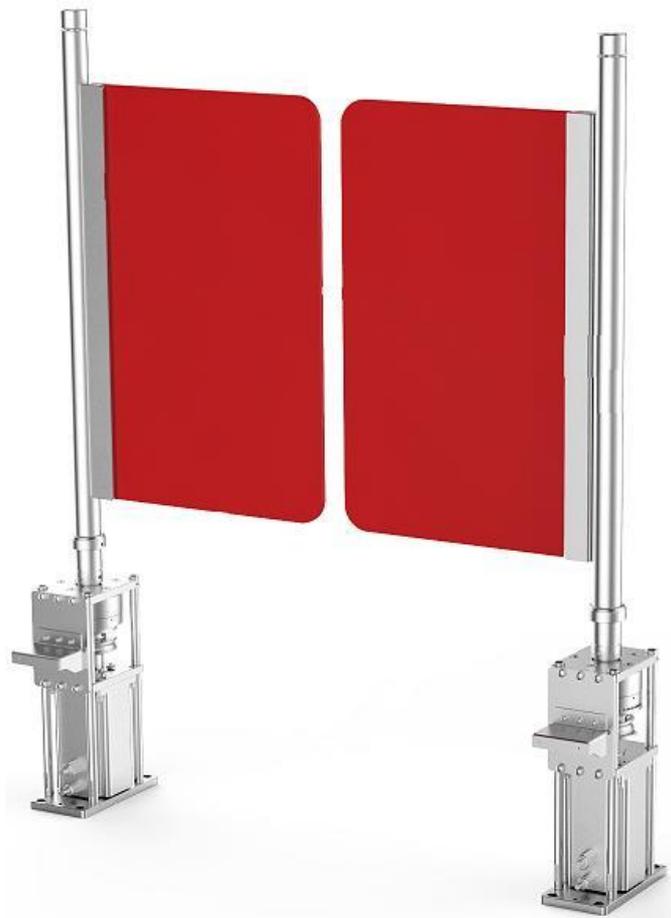


CTHM-P-2S-002

Swing Door Module

Specification



1. Overview

The swing door mechanism is used to control the passageway for large flow of people between the paid area and the unpaid area in the field of public transportation. The swing door mechanism consists of a pair of motors driving the swing door, and a sensor detection system determines violations such as tailgating and forced passage. In the normally closed mode, the swing door is closed and the passage is in "service mode". The swing door will only open if the passenger has valid authorization. After the passenger passes, the swing door will immediately close; in the normally open mode, the swing door is open and only valid authorized passengers are allowed to pass.

2. Statement

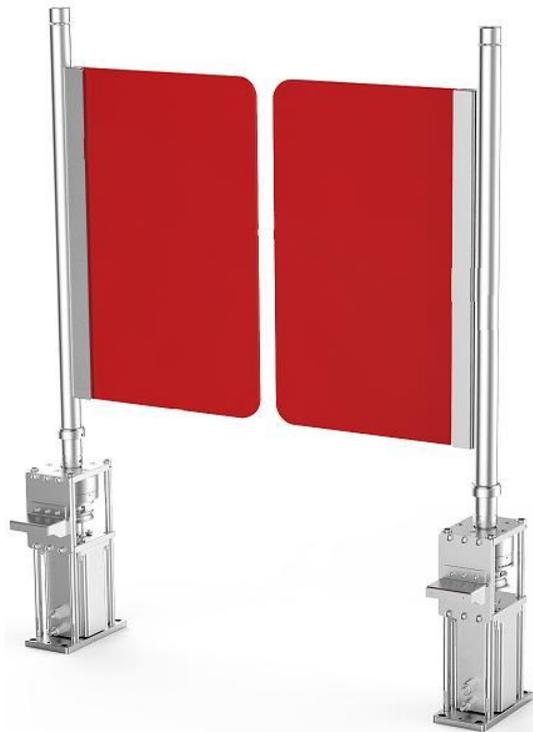
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3. Model

Model: CTHM-P-2S-002

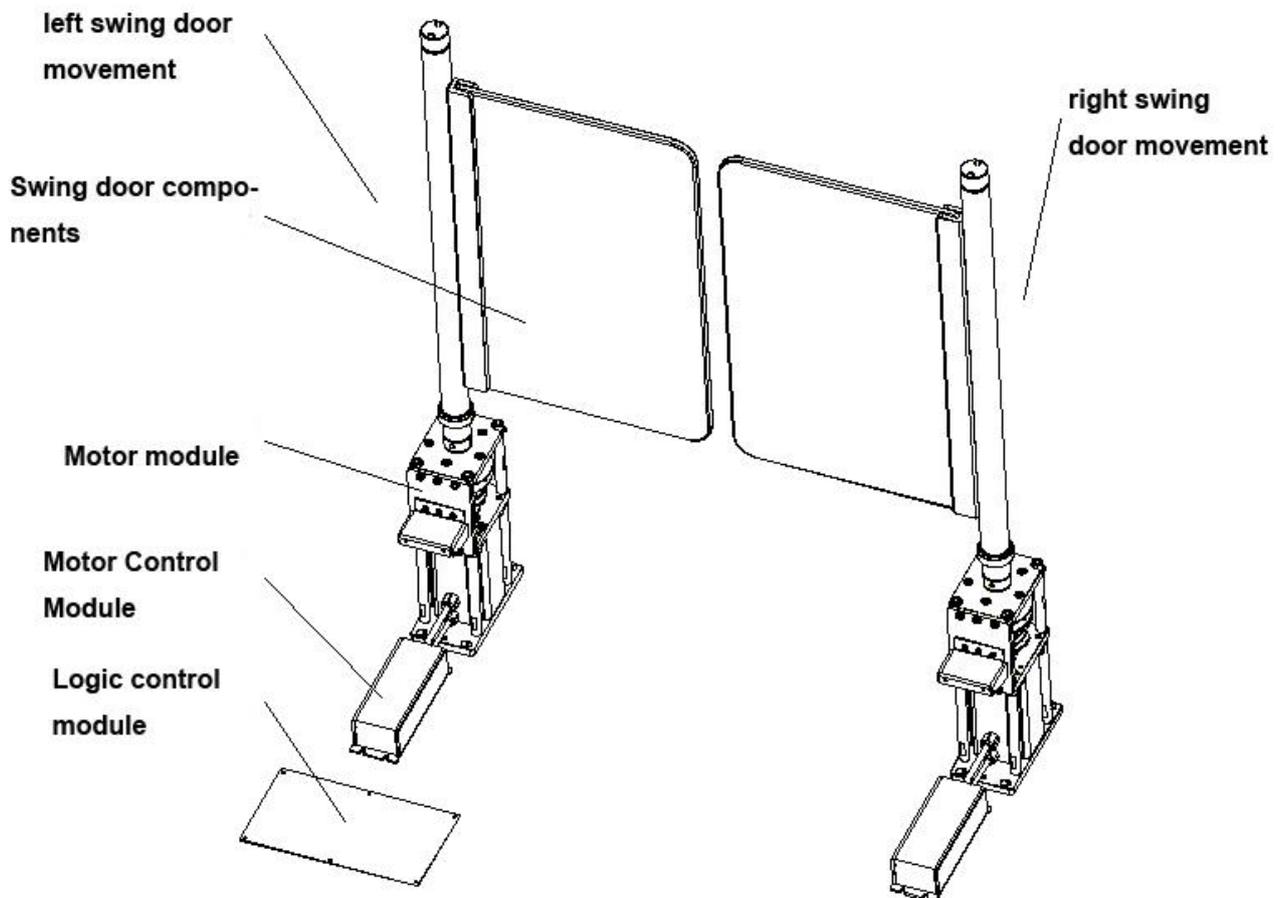
4. Appearance

4.1 Overall Appearance



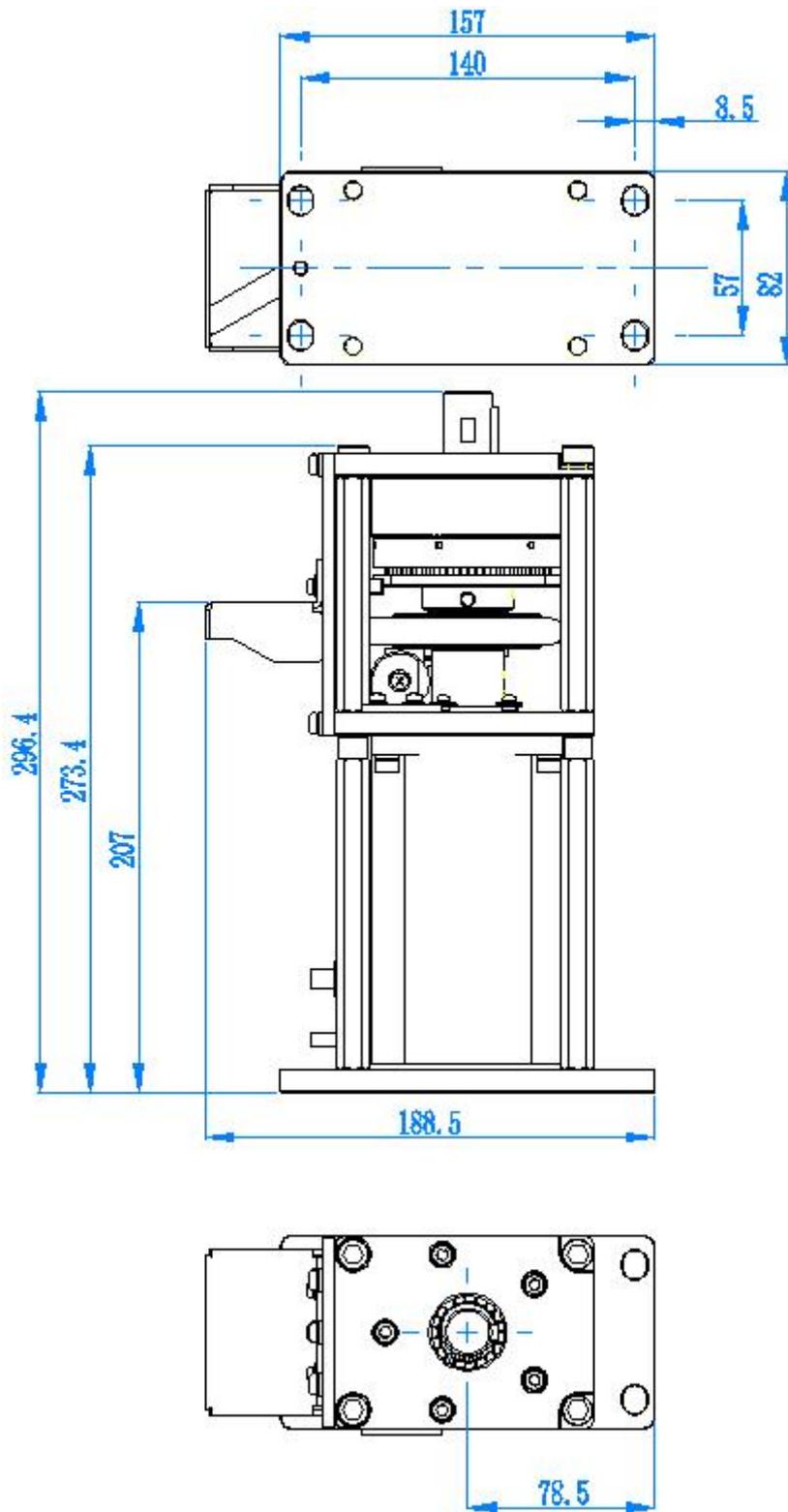
4.2 Structural composition

The swing door mechanism consists of three parts: the left swing door mechanism, the right swing door mechanism, and the logic control module; the left and right swing door mechanisms respectively consist of three parts: the motor module, the swing door assembly, and the motor control module, as shown in the following figure:

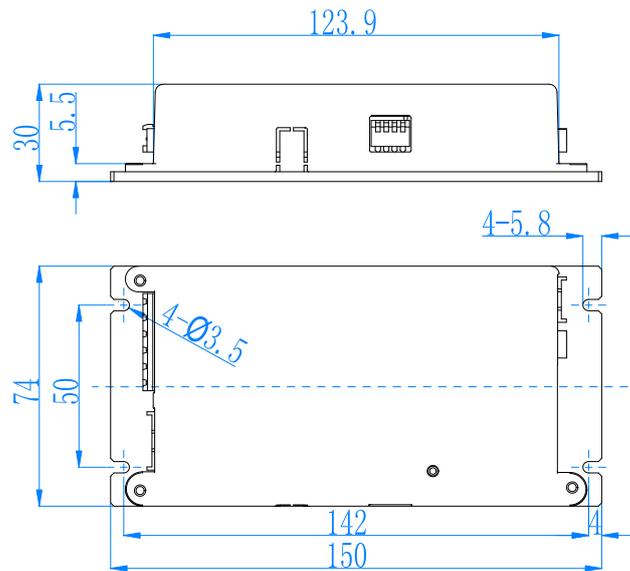


4.3 Dimensions (Unit: mm)

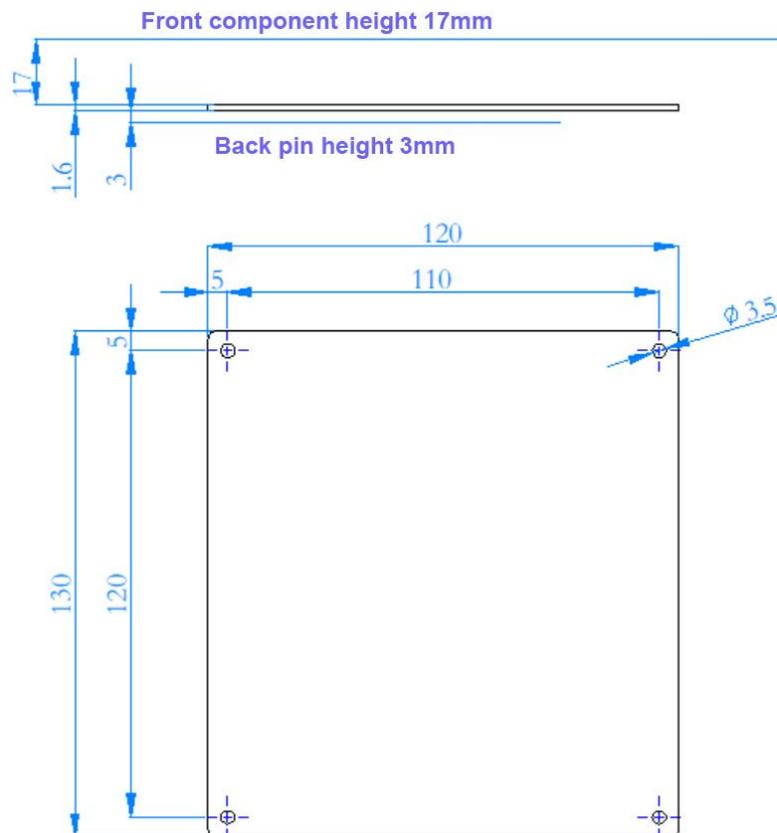
Motor module:



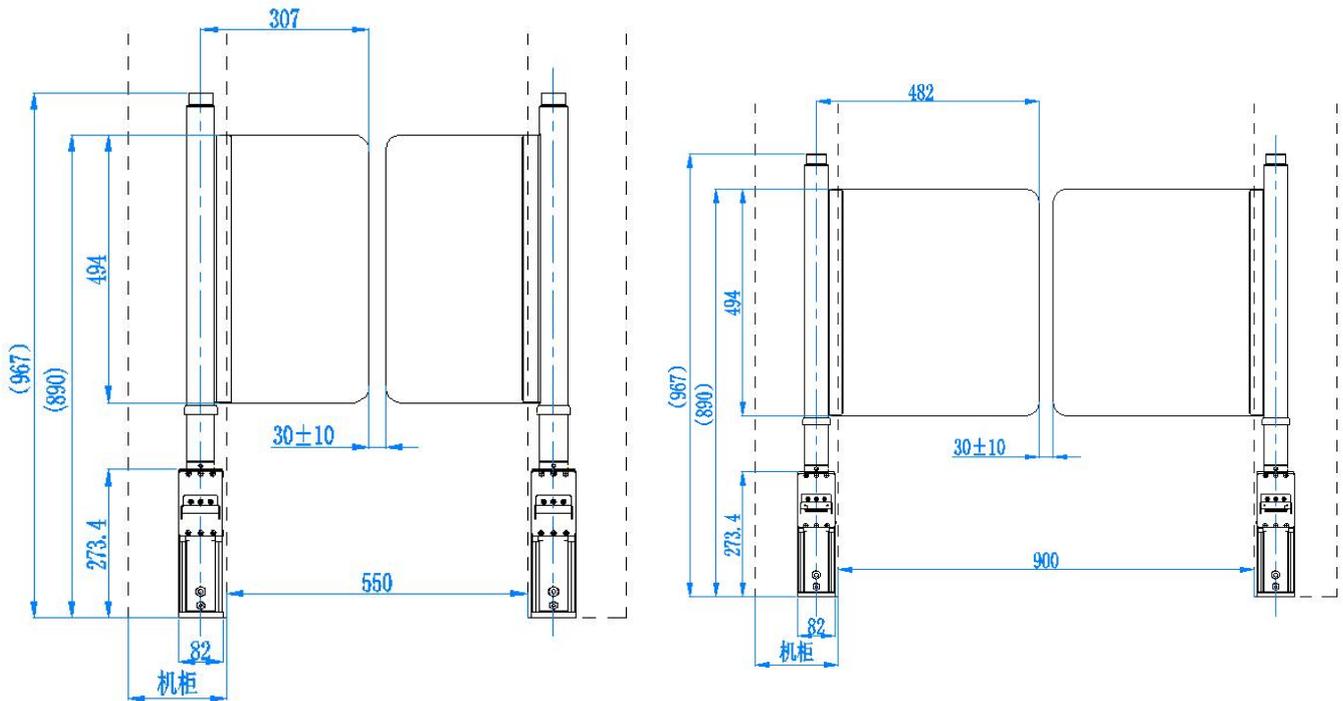
Motor Control Module:



Logic control module:



Swing door movement, standard channel 550 (bracket dimensions can be adjusted according to project requirements):



Swing door movement, wide channel 900 (bracket dimensions can be adjusted according to project requirements):

5.Features

- High efficiency and energy saving: Direct drive servo motor drive system, standby power is only 6W;
- Open the gate with power off: In emergency release mode or equipment power off, the swing door can open automatically and remain in the open position;
- Break protection: When the swing door is closed and the impact force of the break-in exceeds the upper limit of the closing force, the swing door automatically opens to protect the movement from damage;
- Fast running speed: The door opening and closing speed is adjustable, and the fastest door opening and closing speed can be achieved in 0.3 seconds; high-speed door opening can meet fast passage, and high-speed door closing can effectively prevent tailgating;
- Accurate in position: The drive motor has an integrated encoder for precise positioning;
- Reliable and stable: Service life ≥ 30 million times; average no Fault intervals ≥ 30 million times;
- Easy maintenance: modular design, easy maintenance; the protection level of the core component motor is IP65, the movement structure and drive mode are intuitive and reliable, the motor controller supports remote upgrades, and daily use is basically maintenance-free;
- High safety: the swing door movement impact force $< 150\text{N}$, the contact area with pedestrians is large, and the slapping force is gentle;
- Fast and non-pinching: with physical and logical dual anti-pinching detection functions, it can achieve fast and non-pinching;

- Small size: the movement width is only 82mm, and the gate shape is more flexible;
- Low noise: direct drive, no additional deceleration mechanism, almost no noise during operation.

6. Technical Parameters

6.1 Performance technical parameters

Item		Parameter Description	
		Standard Channel-550S	Wide channel-900W
Environmental requirements	Operating temperature	-25 °C ~ 55 °C	
	Operating humidity	≤95% RH (No condensation)	
	Storage temperature	-30 °C ~ 70 °C	
	Storage humidity	≤95% RH (No condensation)	
Life time		≥30 million times	
Opening time (s)		0.3~1 (Configurable)	0.6~1 (Configurable)
Closing time (s)		0.3~1 (Configurable)	0.6~1 (Configurable)
Closing force limit (N)		200-320	
Sports striking force (N)		<150	
Noise (db)		≤45	
Door material		Polyurethane coating/Acrylic	
Collision Detection		With collision detection function	
Number of sensors		24 pairs/20 pairs/11 pairs	
Power off opening the gate		With power off opening function	