



Glass Barrier Swing Gate Turnstile

CPW-135Y

Product Manual V3.2

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Product Description

This intelligent bridge type swing gate turnstile is one of the slimmest in the industry at present. The design aesthetic is and bright, simple and elegant; the housing made of stainless steel is durable; mechanism modules use brushless DC motors and precision positioning encoder to make sure the swing gate can rotate quickly and accurately, stably and quietly, with low-power consumption, energy conservation and environment protection.

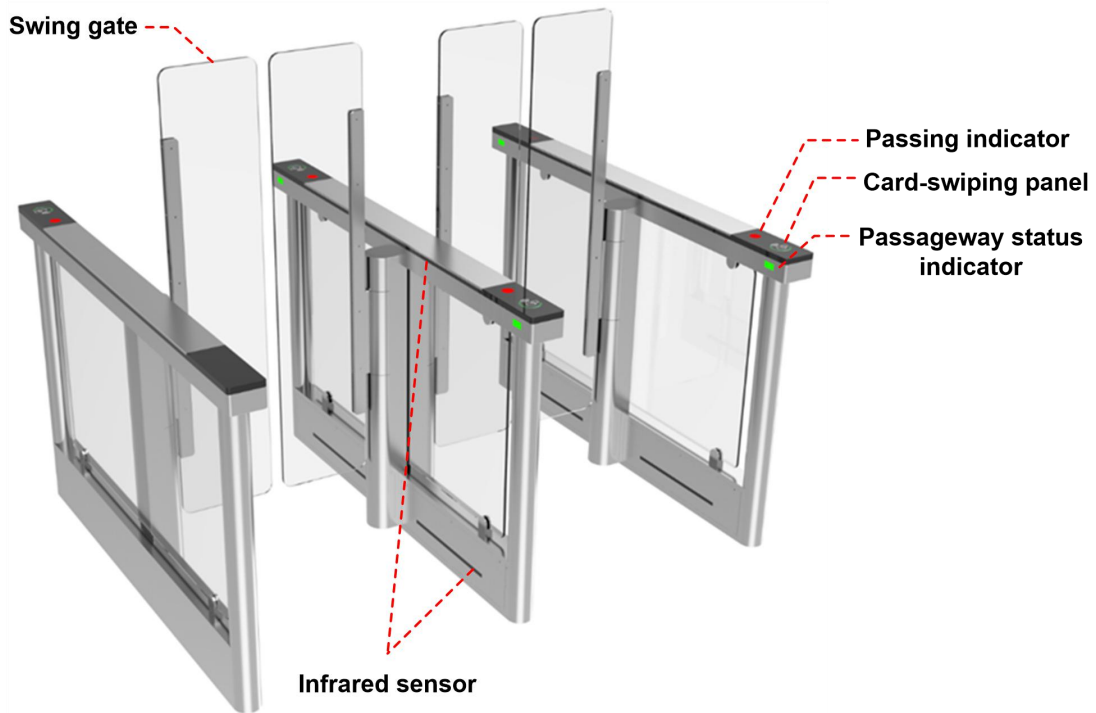
Feature

- ✧ Use DC brushless motor and encoder instead of servo motor to ensure that gate can move quickly & accurately and reduce mechanical fatigue of mechanism effectively.
- ✧ By using more than 10 pairs of military level high-performance infrared sensors and exact algorithms, it can accurately detect the pedestrian's passing position to achieve such as anti-tailgating, anti-reverse passing, anti-clamping and so on.
- ✧ Adopt multiple anti-clamping designs, such as infrared anti-clamping, machinery anti-clamping and advanced electric current detection anti-collision in turnstile industry, to maximally protect the personal safety of pedestrians.
- ✧ The wider lane is optional for carrying luggage and wheelchair access.
- ✧ Equipped with the dry contact signal input interface, RS485/RS232 interface, TCP/IP interface (optional), compatible with all kinds of access controllers.

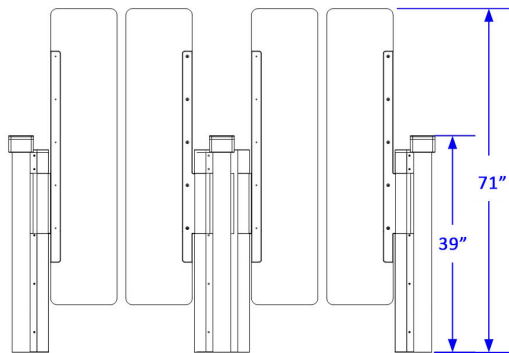
Occasion Applications

Suitable for commercial buildings, subways, airports, customs, exhibition halls, government buildings, financial institutions, clubs and other high-end indoor applications.

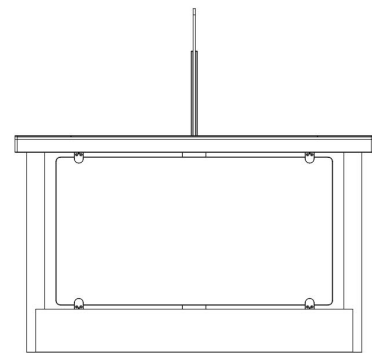
Structure Chart



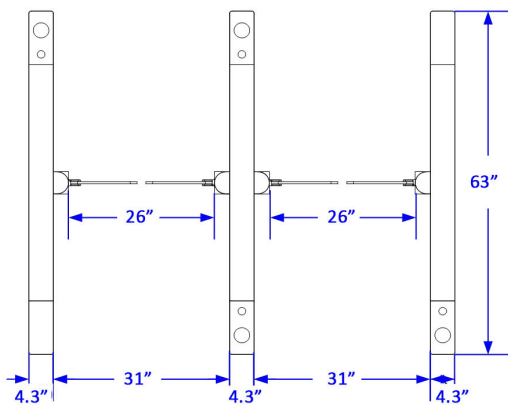
Dimension Figure (in.)



Front View



Side View



Top View

Product Parameters

| Structure Parameters | |
|---------------------------------|--|
| Housing material | 304 grade stainless steel |
| Surface treatment | Brushed finish |
| Swing gate material | Organic glass |
| Technical Parameters | |
| Normal throughput capacity | 30 ~ 45 people / min (according to the condition of pedestrians) |
| Evacuate throughput capacity | 60 people/min (according to the condition of pedestrians) |
| Opening speed of swing gate | 0.3-0.6s |
| The turning angle of swing gate | ±90° |
| Operation temperature | - 20℃~60℃ |
| Electric Parameters | |
| Power supply | AC100-240V , 50/60Hz |
| Rated power | 100W |
| Control input / output | 12-channel relay output / 8-channel dry contact signal input |
| Communication interface | RS485 / RS232; TCP/IP interface (customizable) |
| Driving motor | DC brushless motor |
| Method of positioning | Use the encoder to make sure the swing gate position |
| Control Method of motor | Using high-performance DSP chip |

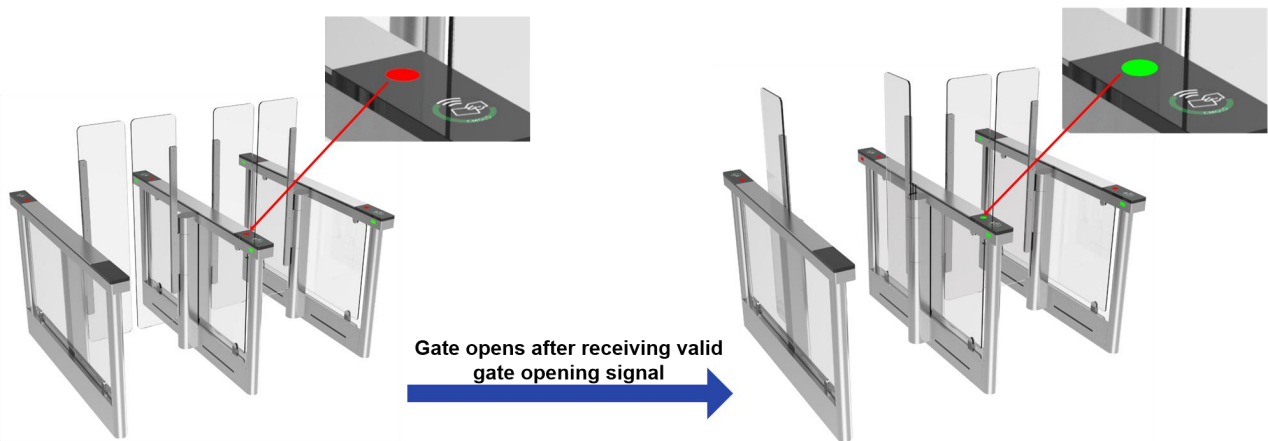
Product Function

● Basic Function

- **Passing mode switching function:** The entry and exit can be set independently **【controlled mode】** / **【 free mode 】** / **【 forbidden mode】**
- **Automatic reset function:** The turnstile will open the gate after receiving the legal opening signal in standby mode. The swing gate will return to the hindered zero position automatically under the following situation:
 - (1) Within the allowed time, pedestrians have been detected to pass the passage in the specified direction;
 - (2) Over the allowed time, no people has been detected to pass the passage.
- **Self-recovery function:** The swing gates do not return to the hindered zero position because of

human intervention. After revoking human intervention, the gate automatically return to the hindered zero position.

- **Automatic adjustment function:** When the turnstiles need to re-adjust because of mechanical wear, you can use the main board to automatically adjust, accurately and conveniently.
- **Memory function of passing requests:** More than 2 passing signals are given at the same time (including the same direction and opposite direction), the system will remember all the passing requests and finish them one by one. The number can be up to 255.
- **Passing indication function:**
 - (1) **Direction indicator:** The direction indicator is installed on the top of the housing to indicate the legal passing direction.



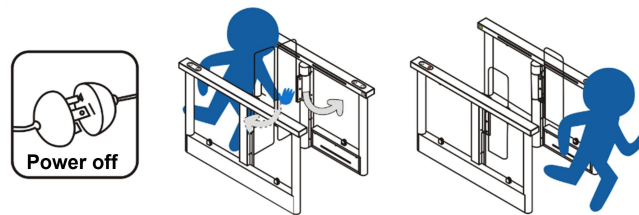
(2) **Passing status indicator:** It is installed inside the housing, indicating whether the swing gates can open or not after receiving the valid signal.



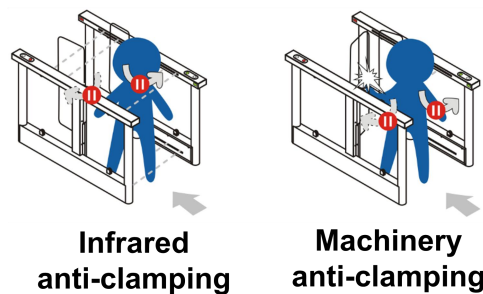
- **Compatibility:** Equipped with the dry contact signal input interface, RS485/RS232 interface, TCP/IP interface(optional), compatible with all kinds of access controllers.

● Security Design

- **Self-check function when power on:** The system will self-check routinely and alarm when the power is on, and intelligently detect the key hardware and function. Find the hidden danger within the shortest time!
- **Open gate when the power is failure:** Adopt the leading mechanical structure by original creation; the system will unlock the gate automatically when power is off; manually push the gate to be open and convenient to evacuate people, which meets the fire requirement.



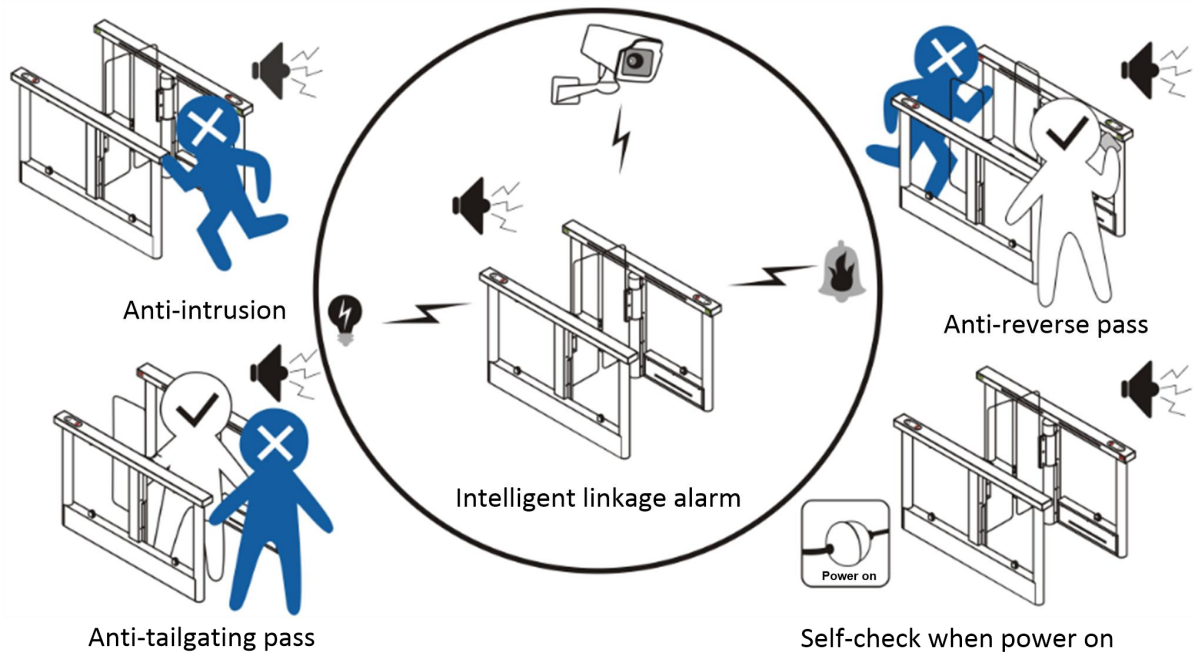
- **Anti-clamping function:**



(1) Anti-pinch by infrared sensor: Install multi-pair of infrared sensors near the anti-pinch area where swing gate is moving. Once people or thing is detected within the anti-pinch area, the swing gate will automatically stop moving; until the people or thing leaves the anti-pinch area, the swing gate will continue to move.

(2) Mechanical anti-pinch: The swing gate will automatically stop moving when the swing gate encounters obstacles; the impulse force is within the safety range when the swing gate is moving.

- **Anti-collision function:** When the gate is locked, it can support the impulse force within the safety range. The gate can be manually pushed slowly when it is over the safety range, to protect the mechanism and pedestrian, and then recovers automatically.
- **Emergency escape function:** Equipped with emergency escape control device, the system can automatically open the gate, easy for evacuation.
- **Intelligent linkage alarm:** Illegal traffic events can be linked with other alarm monitoring equipment: such as access control systems, video management systems.



Custom-made Feature

● Customized Functions

- Built-in or external counter
- TCP / IP communication

● Door open button

- External door open button.
- Install the door open button with wireless remote control.

● Lane width

- The lane width can be custom-made as larger size, and the maximum can be achieved 900mm, but may need to change with the length.

● Height of the glass (from the top point to the ground)

- 1800mm/71in at maximum

● Materials

- The material of housing can be 316 grade stainless steel, and the thickness of stainless steel can be customized.
- The material of swing gate can be organic glass, tempered glass, polycarbonate board and so on, and the color can be customized.

● System Integration

- Integrate with access control system and built-in reader provided by customers.
- Integrated visitor access control system.
- Integrated ticketing system.

★ Notes:

- (1) There is no notice about any upgrade, change of product design and specification.
- (2) If there are special features customized , please contact us directly.