MSS-FH2030

SINGLE PASSAGE FULL HEIGHT TURNSTILE

LED direction guide & Alarm function	**High reliability & durability**
Suitable for unmanned area	**Anti-crawling, climbing and other violation**
Indoor & Outdoor application	**Impossible for tail-gating**
Adjustable working mode and opening time	**Emergency & power outage free access**

PRODUCT SPECIFICATION

Marc Corporation Pte Ltd is Singapore-based Company located at 48 Toh Guan Road East, Enterprise Hub, #05-154, Singapore 608586. We concentrated in only producing turnstiles & speed gate, namely Tripod, Full-height, Flap Barrier, Swing Gate, Sliding Gate and Speed Gate under our brand MSS® for the past 10 year plus. Our products are the combination between our own invented core machine, optimal controlling algorithms and highest quality components, materials and up-to-date production techniques.

Reliability and durability are the most important features of our products. Besides, we always provide our customer clear and non-misleading information about products and various alternatives and options on material, finishing and features.

Description

MSS-FH2030 is single passage full-height turnstile to regulate the flow of people coming into and out of premises without stopping flow of air circulation or fully obstacle the view. Its full-height, solid and rigid design is suitable for high-risk, high-capacity, restricted area such as stadium, bank vaults, military-based, prison or any unmanned, remote and abandon area.

Crawling or climbing is not possible since each single passage full-height turnstile contains three arms at 120 degree spacing to each other; each arm consists of 10 rods spaced equally to form a total of 2 meter plus in height with space between each rod only around 20cm.

As only one person can pass through the turnstiles at same time, it is impossible for tail-gating and system is vandalism-proof since intruder cannot tamper to gain unauthorized access.

Locked position was pre-set when power on. Under semi-auto mode of operation, arms are manually pushed to pass upon validation takes place. In case of emergency, center rotor will be set free automatically for escape.

The turnstile has standard electrical interface to integrate with common access control system equipment and 3rd party facilities such as Card reader, Bar-code Scanner, Finger-print & Facial recognition, Iris recognition, Card collector, Token reader for the purpose of authority management and toll collection.

MSS-FH2030 is highly durable and reliable and can be used both indoor and outdoor. High-grade and qualified SS304 stainless steel are used as standard for rigid, long-lasting and weather-proof. Option of SS316 stainless steel material are available and recommendable for on-shore, off-shore and hazardous environment.

Operation

MSS-FH2030 is held in locked position when electrical power on to control the access of public to secured area. When system is validated by user access card or recognition or active payment, rotor locked is open to allow manually push arm to enter in one-by-one traffic manner.

The rotor was be set at free (by default) in case event of emergency, fire and accidents for unencumbered exit for safety of public

Products can be set as controlled or free access in one direction or both directions. LED is located on both side of turnstile to indicate the direction and status of access by arrow and its color. In which direction of arrow shows the direction of traffic while ‘green’ color means authorized and ‘red’ color means unauthorized

STANDARD FUNCTION

Standard functions

- Single passage full-height turnstile, SS304, Semi-auto.
- Automatically reset function
- Ability to set up running status of device through pressing small built-in keyboard of main control board
- Ability to choose different operating model (bi-directional, single-directional)
- Anti-reverse intrusion – to avoid one trying to pass in opposite direction of allowed direction
- Ability to lock at closed position to prevent force intrusion
- Anti-back up function to prevent reverse rotation once the arm turned 60 degree from original position
- Time out closing feature to close entrance after a period of time without no access after an authorization (by default = 10s)
- Emergency/power outage escape, automatically drop arms to open freely in case of emergency/power outage
- Standard fire alarm input interface (N.C normally close contact)
- Multiple reader integration: Card reader, bar code scanner, finger-print detection and facial recognition at one tripod
- Selectable operation mode: Free access (automatically open whenever detecting passenger by infrared beam), Controlled mode (only open for valid access authorization) in one or both direction.
- LED indication of direction and authorization status
- Available normally open and normally close mode
- Smooth operation with low noise and low mechanical impact
- Ergonomic and user friendly design
- No crew exposed for safety use of public
- Interface with peripheral computer for programming

Optional features

- Passenger counter display
- Audio and visual alarm
- Remote-control button
- Access control integration
- SUS316, powder coating finish, colored style
- Additional structures: Emergency power, solar panels.
- All-in-one card solution: Card access controller, Elevator controller, Turnstiles controller and Parking controller.

TECHNICAL SPECIFICATION

Specifications

Operation voltage	AC220V±10%, 50Hz±10%
Main-board voltage	24V DC
Housing material	SUS304 1.5-2.0mm stainless steel
Typical weight	Up to 200kgs for dual channel
Ingress protection	IP45
Power consumption	6A
Start-up time	3s (Semi-auto)
Time of opening / closing	0.2 seconds
Time to work after power on	3 seconds
Reset time after breaking down	10 seconds
MTBF	5,000,000
Operation temperature	-10°C ~ +70°C
Relative humidity	≤90% non-condensing
Working Environment	Indoor/Outdoor
Input port	Dry contact signal or +12V level signal or 12VDC pulse signal with a width of more than 100ms; driving current: >10mA
Pass speed	30-35 persons/minute
Communications port	RS485, TCP/IP

Dimensions **W x D x H: 1500 x 1350 x 2300mm** **(See details in CAD dimension)**

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