

MSS-TR2122

(SS316, FULL-AUTOMATION, BRUSHLESS MOTOR) TRIPOD TURNSTILE

Rev 1.1.2019



Anti-forced intrusion LED direction guide

Compact & cost effective entrance solution Alternative material & type of motor

Indoor (recommended) & Outdoor application Adjustable time-out & opening time setting

Adjustable operational and directional mode Emergency & power outage escape

Marc Corporation Pte Ltd, located in 48 Toh Guan Road East, Enterprise Hub, #05-154, Singapore 608586 is the manufacturer for all types of turnstiles, namely Tripod, Half-height, Full-height, Flap Barrier, Swing Gate, Slide Gate, Tripod Turnstile, Speed Gate, Hydraulic Bollard and Road Blocker under MSS® brand name.

Our products are combination of high quality material, durable motor, ergonomic design and modern looking. They are able to control the assessment of public and manage the level of authority while still enhance the elegancy and presentation of any buildings, public locations or individual assets.

Customization on alternative material, finishes, design, size and system integration are accessible with the help of our experienced engineering and technical teams.

Description

MSS-TR2122 is Full-automation, Stainless steel grade 316, Brushless motor Tripod Turnstile that can be used to separate the public and secured area. It can enforce the turn of enter and exit exactly one by one by rotating its arm that limit to one adult.

The turnstile can be set at either free mode (always open) and controlled mode (in locked position unless validating) in either or both direction and has standard electrical interface that can be easily 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.

The tripod turnstile was designed for smooth and silent operation, convenient and safety to use; the design is compact and cost-effective, to be an effective entrance solution for any area.

MSS-TR2212 is specially designed for use in industrial, coastal and offshore environments. The long-lasting, weather-

proof and marine-proof 316 Stainless steel material is able to protect the turnstile against salt corrosion and destruction.

Brushless motor is tentatively used in MSS-TR2212 to minimize users' fault and necessary maintenance in industrial and remote area due to its nature of zero-mechanical wear and tear. Furthermore, brushless motor provides better silent, durable and reliable operation for the comfortable of use.

Operation

In case of emergency and power outage, the arm will automatically drop for public encumbered exit. When power is on, the arm will automatically leverage into its locked position. Depends on the mode of operation that it was set, it can allow the public to pass freely in one or both direction or will only allow the public to access whenever there is a validation.

LED on top of devices at both sides of turnstiles is to indicate the authority level and direction of traffic for users convenient.

Standard Functions

- 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 (always allow to pass), 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 for easily tabbing card
- 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
- Customized size, finishing color
- All-in-one card: Card access controller, Elevator controller, Turnstiles controller, Parking controller

TECHNICAL SPECIFICATIONS

Specifications

Power voltage	AC220V \pm 10% V, 50Hz \pm 10% Hz
Driving electromotor	24V DC Brushless Motor
Main-board voltage	12V DC
In-built hydraulic shock absorber	
Passing speed in normally open mode	20~30 persons/min
Passing speed in normally closed mode	20~30 persons/min
Arm Length	500-550mm
Time of opening / closing time	0.2 seconds
The time required to running state after power on	8 seconds (full-automatic)
Automatic reset time after the failure	10 seconds
MTBF	>3 million (tested)
Operation temperature	-10°C ~ +50°C
Relative humidity	Relative \leq 90% not condensation
Working Environment	Indoor/Outdoor
Input port	Relay dry contact signal; +12V level signal and Pulse width >100ms, DC12V pulse signal
Input Interface	Dry contact signal or +12V level signal or DC12V pulse signal with a width of more than 100m2, driving current: >10mA.
Communication Interface	RS485, TCP/IP

Dimensions: 980/1000 x 1200 x 280mm (Standard: 980 x 1200 x 280 mm)

