Sivananda Electronics

Motorized Tripod Turnstile (TS Series)

For pedestrian & service personnel

Slim Type (SL)

Elegant/C Type (EL)

Box Type

Arm Dropping

Sailient Traits

- 3x120 degree rotation
- Least possible footprint
- The turnstile is equipped with bi-directional throughput feature, made especially for quick Access control in areas with high traffic but limited space
- "Droparm Feature " moves the arm from the horizontal to vertical position, thereby Completely freeing the lane in case of a power failure or emergency evacuation
- TS series housing is made up of superior-quality stainless steel
- Variety of attractive design for single &multiple installation are available.
- Inactive arms do not obstruct the passage
- Mechanical & electronic locking in closed position prevents fraudulent entry
- It can be easily integrated with wide variety of access control system
- Non-removable arms
- Comfortable passage
- Prudent & luxurious design that fits with any type of prestigious entry hall
- Ergonomics of turnstile prevents tailgating
- IP 44 for Indoor installation, IP 54 for outdoor with suitable canopy/ roof arrangement.
- All springs and shafts are made in SS. Shafts are surrounded by bearing.
- Arm's end finished with hemispherical SS end caps
- Optional Ethernet connectivity for centralized counting software

Drive

Brushless DC motor based drive

Orientation

The same turnstile can be installed as either left hand or right hand unit

Functionality

The turnstile supports bidirectional throughput. It ensures comfortable passage in area with high traffic & limited space

Design

Design consists of turnstile housing with built in micro-controler logic board (CLB). Its design ensures comfortable passage without hindrance of inactive rotor arms. The design of the housing is made slim, sleek & sturdy, this results in less usage of space & reduced weight. Led lane indicators are located on side panels of the housing. The head of the housing contain the rotation mechanism.

Visual Indication

It is equipped with LED display with bright pictogram for status and direction indication (standard feature).

Material

1.Turnstile housing is manufactured AISI304 Stainless steel (1.5 mm). It comes in Matt Finish & Mirror finish. Also if required can be in Mild steel single coat black color/RAL7035 (or As required)finished powder coating.

2. Rotor Arms is made up of AISI304 Stainless steel 1.5mm) tube with Plastic/SS end caps, mirror finish (Dia- 32mm/ 38mm).

Access Control

1. Electrical control for both entry and exit operation are standard.
2. It can be controlled by any third party access control systems TS series series gives client ability of presetting in either pulse or potential control mode for correct operation of tripod turnstile with virtually any access control systems. In both control mode the tripod turnstile is operated by input of the control signal to the connector block
3. In case of power failure or emergency TS series can be configured either fail safe or fail locked mode. In fail safe mode rotor arm will be dropped to free the passage.

Access Control Integration

- Electrical control for both entry and exit operation are standard.
- It can be controlled by any third party access control systems TS series gives client ability of choosing either pulse or potential control mode for correct operation of tripod with any access control systems. In both control mode the tripod is operated by input of the control signal to the connector block

Control Mechanism

1. Powerful DC Brushless motor, ensuring low maintenance & long life

2. Controller ensures swift, safe & quiet rotation of arms without vibrations.
3. Self centering of vertical rotor arm irrespective of the manual force applied on it .
4. Smooth rotation of the tripod arms and soft return to the home position.

5. Anti pass back mechanism which restricts the reverse rotation of the arms.

Interface

TS series is controlled via the CLB (Control Logic Board) placed inside the TS housing. The CLB microcontroller processes the incoming commands, keeps tracks of the signals from the sensors, generates commands to the control mechanism and operates external devices.The features are as follows:

- Input facility for unblocking the TS series at the fire alarm command or from emergency unblocking button;
- Programmable timeout facility

TS series turnstile is designed with the control logic board installed inside the turnstile housing. After each passage the barrier arms are automatically returned to home position by a self-centering mechanism.

Delivery Details

The equipment is to be delivered at the job site in manufacturer's packaging; the equipment is to be wrapped in air bubble sheet, in wooden closed freight container. The equipment is to be delivered undamaged. Once at job site it is to be stored indoors in controlled environment. Product manual is to be sent along.

Installation

1. Installation is to be carried out on a leveled and finished concrete floor at least 200 mm thick.
2. A trench of 100mmX100mm is to be provided by the client according to installation drawings provided.
3. It is to be carried out by a skilled installer only and in strict accordance with the manufacturer's instruction (supplied with the TS series) and installation drawings.
4. Warranty of product would not cover service calls after improper installation.

Warranty

Sivananda Electronics warranties its products against defects in material and workmanship for a period of one year from the date of installation or 15 months from the date of despatch, whichever is earlier. This warranty excludes normal wear on finishes or damage that occurs due to abuse or misuse.

Work To Be provided by Client

1. Power supply & Cables
2. Access control systems & cables
3. Possible masonry & Cable Trench

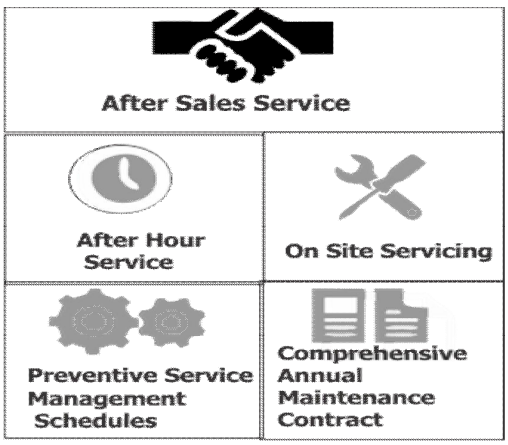
Standard Technical Specification

Power Supply	180-270 VAC @50Hz
Control Circuit	24 / 48 V DC
Nominal Consumption	60 W(Peak)
Capacity/Minute	30 persons without access control
Ambient Operating Temperature	-10° to +55° C
MTBF	> 10 million cycles
Humidity	90-95% non condensing

Note:- In all the below models Electronics and Mechanism is common. Only change is in Aesthetics.

Dimensions & Specifications

Model	Arm Length (mm)	Passage Width (mm)	Overall Length (mm)	Overall Width (mm)	^ ACS mounting area (BXH) (mm)	Unit Height (mm)	Unit Length (mm)	Unit Width (mm)	Ground Clearance Rotor Arm (mm)
TS- 1SMD / **TS- 1MD**	380	430	800	750	310 x 170	1065	800	315	860
TS- 2SMD / **TS- 2MD**	500	550	985	860	310 X 170	1065	985	315	860
TS- 1SMD (SL) / **TS- 1MD (SL)**	380	430	680	740	310 X 96	1045	425	315	820
TS- 2SMD (SL) / **TS- 2MD (SL)**	500	550	825	860	310 X 95	1045	425	315	820
TS- 1SMD (EL) / **TS- 1MD (EL)**	380	430	950	740	160 X 310	1050	950	310	875
TS- 2SMD (EL) / **TS- 2MD (EL)**	500	550	1110	860	160 X 310	1050	1110	310	875



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