RotaTech – FH Manual Security Turnstile

Product Description
Full Height Turnstiles are designed for high traffic volume areas. They are ideal for controlling movement and establishing a line of defence inside or outside a building.

Applications
- Recreational Areas
- Industrial Sites
- Construction Sites
- Stadia
- Secured Residential Compounds
- Corporate reception foyers

Drive
Hand-operated, Bidirectional

Materials
Casework
- Mild Steel (Powder Coated)
- Mild Steel (Hot Dip Galvanised)
- 304 Stainless Steel (Brushed)

Rotor
- Mild Steel (Powder Coated)
- Mild Steel (Hot Dip Galvanised)
- 304 Stainless Steel (Brushed)

Side Frame & Comb
- Mild Steel (Powder Coated)
- Mild Steel (Hot Dip Galvanised)
- 304 Stainless Steel (Brushed)
Technical Features of the Mechanism

- Heavy-duty solenoids are rated for continuous duty cycle to ensure optimum reliability.
- Components of the mechanism do not lose their adjustments after years of service under arduous conditions.
- The arms are released for one rotation of 90 or 120 degrees (movement to allow one pedestrian entry/exit) by activation signal from a number of sources, e.g. code cards, push buttons, coins, key, computer etc.
- The Turnstile Arm Spacing is designed to ensure a single entry/exit per legitimate activation signal.
- Internal Mechanisms return the rotor to the locked position after each rotation.

Power Failure/Fire Alarm

In the event of an emergency or isolation of power supply, unit may be configured to fail safe i.e. rotor freely rotates or fail lock i.e. rotor locks. Either option is available in both or one direction. Choice must be made denoted at time of order placement.

**Note:** Head mechanism fail state will be the same as power failure choice. If not Specified, Full Height Turnstiles will be delivered fail lock exit and entry.

Interface

**LOGIC**

TL100A Logic (4 Arm Turnstile)
- One (0V) input provided for entry direction control
- One (0V) input provided for exit direction control
- Mechanical Key-Switch override for opening/Locking each individual direction
- One (0V) Input Latching to terminals 1 and 2 for more than 20 seconds will open for both directions (Emergency Override)

TL100 Logic (3 Arm Turnstile)
- One (0V) input provided for entry direction control
- One (0V) input provided for exit direction control
- Mechanical Key-Switch override for opening/Locking each individual direction
- One (0V) Input Latching to terminals 1 and 2 for more than 20 seconds will open for both directions (Emergency Override)

TL400 PLC
- One (0V) input provided for Access Control Device interface for entry direction control
- One (0V) input provided for Access Control Device interface for exit direction control
- One (0V) latching input for Access Control Device interface controlling simultaneous Entry and Exit direction override (FACP)
- Two (0V) Latching input for Access Control Device interface controlling individual Entry and Exit Direction override
- Two (0V) Output for Counting Rotation Confirmation in both Entry & Exit directions.
- Mechanical Key-switch override for opening /Locking each individual direction
**Technical Data**

- **Dimensions**: See details on next page
- **Power Supply**: 220V
- **Power Rating**: Single Phase 230 VAC 50 Hz
- **Logic Voltage**: 220V
- **Operating Temperature**: 0 to 55°C
- **IP Rating**: IP20

**Flow Rates (approx.)**

<table>
<thead>
<tr>
<th>Reader Device</th>
<th>Number per Minute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Type</td>
<td>12</td>
</tr>
<tr>
<td>Insertion Type with Pin code keypad</td>
<td>7.5</td>
</tr>
<tr>
<td>Swipe Type</td>
<td>15</td>
</tr>
<tr>
<td>Swipe Type with Pin Code Keypad</td>
<td>8.5</td>
</tr>
<tr>
<td>Proximity “Hands Free”</td>
<td>15</td>
</tr>
</tbody>
</table>

**Models Available**

- 3 Arm Full Height Single Turnstile
- 3 Arm Full Height Double Turnstile
- 4 Arm Full Height Single Turnstile
- 4 Arm Full Height Double Turnstile

**Finishes**

- Mild Steel Powder Coated
- Hot Dip Galvanised
- Stainless Steel 304

**Options:**

- Mild Steel Powder Coated Canopy
- Stainless Steel Brushed Canopy
Site Preparation

Product Delivered as sub-assemblies and may require lifting equipment
(For installation details, please refer to the installation Manual)

4 Arm Full Height Single Turnstiles (Rotatech – FH)
3 Arm Full Height Single Turnstiles
Important

- Any horizontal pipe or conduit running below the “Turnstile” must be at least 140mm below FFL
- The dimensions given in this Product Data Sheet are for Information only. In order to prepare the installation site, please refer to the installation manual or ask confirmation
- Metal conduit for cables should be raised at least 50mm from Foundation. It is the customer’s responsibility to ensure the structural integrity and strength of the installation

Concrete slab & floor site preparation

Concrete base to specification at least fck (cube) 300N/mm2 of resistance
Base to be flat and level to +/- 5mm over footprint area. Dimensions to be 1450 x 1450 x 150 deep min. (Units in mm)
Site Preparation

Product Delivered as sub-assemblies and may require lifting equipment

Approx. Weight:

(For installation details, please refer to the installation Manual)

4 Arm Full Height Double Turnstiles
3 Arm Full Height Double Turnstiles
Important

- Any horizontal pipe or conduit running below the “Turnstile” must be at least 140mm below FFL.
- The dimensions given in this Product Data Sheet are for Information only. In order to prepare the installation site, please refer to the installation manual or ask for confirmation.
- Metal conduit for cables should be raised at least 50mm from Foundation.
- It is the customer’s responsibility to ensure the structural integrity and strength of the installation.

Concrete slab & floor site preparation

Concrete base to specification at least fck (cube) 300N/mm² of resistance.
Base to be flat and level to +/- 5mm over footprint area.
Dimensions to be 2100 x 1450 x 150 deep min. (Units in mm)
Directors:  A. Vermeulen (General Manager), M. Houseman**, R. Armour
** British