



### Product Overview

The FT290 is a high-security dual-lane/Single-lane full-height turnstile engineered for high-throughput environments requiring robust perimeter control. Constructed from premium SUS304 Stainless Steel, it features a 90-degree brake rod angle and a hexagonally designed drive mechanism to ensure precise, bi-directional operation and superior safety.



### Core Technical Specifications

<b>Dimension</b>	1450mm(L) x 2200mm (W) x 2200mm (H)
<b>Number of lanes</b>	2/1 Lanes
<b>Passage Control</b>	Bi-directional operation
<b>Drive Mechanism</b>	Electromechanical, bi- directional, arm should rotate 360 degrees with stop at each 90 degrees.
<b>Design</b>	Hexagonally designed drive mechanism with built-in lane indicators
<b>Power supply</b>	230VAC (±10%), 50 Hz
<b>Material of construction</b>	Body & arm of Stainless Steel- 304 or better, arm length is 600 mm, length
<b>Throughput</b>	30 persons per minute per lane
<b>Power fail protection</b>	Free rotation of arms. Arms will automatically return to home position upon restoration of power.
<b>Emergency Shutdown</b>	Free rotation of arms
<b>Indication Feature</b>	After receiving valid credential, turnstile should indicate the user either through clear audio-visual mechanism to rotate the arms of turnstile.
<b>MCBF</b>	10 million cycles
<b>Duty cycle</b>	100%
<b>Integration</b>	With any access control device like smart card Reader, PIN and / or Face Recognition / Fingerprint Reader (any biometrics- based Access Control System)
<b>Installation</b>	Fixed to Concrete Floor by means of Anchor bolts, supplied with the turnstile
<b>Temperature Range</b>	-15 to 60 °C
<b>IP Rating</b>	IP 44 or better, shall be suitable for outdoor usage
<b>Certifications</b>	CE, FCC, RoHS, ISO

## Key Operational Features

- Premium SUS304 Stainless Steel construction with full capping for superior waterproof integrity.
- Universal reader panel integration: Supports Cards, Fingerprints, and QR Codes.
- Anti-tailgating logic: Precision mechanics ensure one authorization per passage.
- Emergency Fire Mode: Gates rotate freely during power failure or emergency signal.
- High-efficiency bi-directional passage control.
- Industrial-grade ruggedness for indoor and outdoor environments.

## Intelligence & Integration

The VT-FT290 is designed for universal compatibility and intelligent facility management. It acts as a flexible peripheral that can be controlled by any standard access control architecture.

### System Compatibility

The system provides seamless dry-contact integration (NO/COM/NC) allowing it to interface with:

- RFID Card Readers & Proximity Systems
- Biometric Terminals (Fingerprint, Face Recognition)
- Barcode and QR Code Scanners
- Push Button & Remote Override Controls

## Safety & Emergency Protocols

Safety is paramount in the VT-FT290 design, featuring multiple layers of protection for both the user and the facility.

#### AUTO-RESET FUNCTION

If a person does not pass within a predefined timeframe after authorization, the system resets and locks the lane.

#### EMERGENCY FAILSAFE

During power failure/emergency shutdown, turnstile shall have provision for free rotation of arms, to provide clear passage to the commuters.

#### MANUAL OVERRIDE

Equipped with a dedicated manual emergency switch for immediate physical override by security personnel.

