



Product Overview

The VT-FBL200 is a premier electromechanical flap barrier system designed to provide high-performance security solutions for environments requiring seamless and rapid pedestrian flow. Engineered with durability and aesthetics in mind, this system is an ideal choice for modern corporate offices, transit hubs, and high-security installations.

The chassis is constructed from premium AISI 304 Grade Stainless Steel, ensuring long-term resistance to corrosion and wear. Powered by advanced brushless DC motors, the unit supports a 100% duty cycle, making it suitable for 24/7 continuous operation.



Core Technical Specifications

DRIVE MECHANISM	Servo motor or Brushless DC motor technology
HOUSING MATERIAL	AISI 304 Grade Stainless Steel (Top Quality)
PASSAGE WIDTH	550 mm (Standard Lane Configuration)
THROUGHPUT RATE	25 - 30 persons per minute
POWER SUPPLY	AC 100-240V, 50/60Hz (Internal 24V DC conversion)
OPERATING TEMPERATURE	-25°C to +70°C
INGRESS PROTECTION	IP55 Rated for durability
OPERATIONAL RELIABILITY	10 million Mean Cycles Between Failures (MCCBF)
Certifications	CE, FCC, RoHS, ISO

Key Operational Features

Bi-Directional Logic

Supports simultaneous bi-directional entry and exit, maximizing pedestrian throughput during peak hours.

Tailgating Prevention

Advanced sensor arrays detect unauthorized following to prevent tailgating and ensure one person per authorization.

Intelligence & Integration

The VT-FBL200 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-FBL200 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	In the event of a power loss or fire alarm trigger, the flaps automatically retract to provide an unobstructed evacuation path.
MANUAL OVERRIDE	Equipped with a dedicated manual emergency switch for immediate physical override by security personnel.
ANTI-PINCH TECH	Built-in safety sensors ensure the flaps will not close if an obstruction is detected in the passage path.

Installation & Maintenance

The modular design of the VT-FBL200 allows for easy installation and simplified maintenance. The top cover and side panels provide quick access to the internal control board and drive mechanism. Its IP55 rating ensures consistent performance even in challenging environmental conditions with high dust or moisture levels.

Dimensions (mm)

