

NX-FBL2500

Single Lane Flap Barrier Gate

*Smooth bi-directional pedestrian access control
— 24V DC brushless motor with IR anti-tailgating*



The Nexakey NX-FBL2500 is a premium single-lane flap barrier gate engineered for smooth, quiet, and reliable pedestrian access control. Powered by a 24V DC brushless motor, it delivers bi-directional traffic flow at 30–45 persons per minute with advanced infrared anti-tailgating detection accurate to 5cm. The auto-closing mechanism, fail-safe emergency open mode, and IP52 protection rating make it ideal for corporate offices, metro stations, government facilities, and high-security commercial environments requiring both elegance and robust access management.

KEY FEATURES

- ✓ **24V DC Brushless Motor** — maintenance-free, whisper-quiet drive mechanism ensures thousands of hours of reliable operation
- ✓ **IR Anti-Tailgating Detection** — infrared sensors detect unauthorized follow-through as close as 5cm — instant alarm trigger
- ✓ **Bi-Directional Traffic Flow** — 30–45 persons per minute in both directions — ideal for busy entry and exit points
- ✓ **Auto-Closing Mechanism** — barriers close automatically within 3 seconds if no valid passage is detected after opening
- ✓ **Fail-Safe Emergency Mode** — flaps open automatically on power failure — compliant with emergency evacuation standards
- ✓ **Multi-Reader Compatible** — integrates with RFID, fingerprint, facial recognition, QR code, and card access systems

APPLICATIONS

- Corporate Offices & Commercial Buildings
- Metro Stations & Transport Hubs
- Government & Public Institutions
- Shopping Malls & Retail Centers
- Hotels & Business Centers
- Educational Campuses & Libraries

TECHNICAL SPECIFICATIONS

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|------------------------------|---------------------------------|-----------------------------|----------------------------------|
| Model | NX-FBL2500 | Type | Single Lane Flap Barrier Gate |
| Motor | 24V DC Brushless Motor | Traffic Direction | Bi-Directional |
| Flow Rate | 30 ~ 45 Persons / Minute | Anti-Tailgating | IR Sensor (5cm Detection Range) |
| Auto-Close Time | 3 Seconds (No Passage Detected) | Fail-Safe Mode | Flaps Open on Power Loss |
| IP Rating | IP52 (Dust & Splash Resistant) | Power Supply | AC 220V ± 10%, 50Hz |
| Operating Temperature | -15°C ~ +70°C | Reader Compatibility | RFID, Fingerprint, Face, QR Code |
| Housing Material | SUS304 Stainless Steel | Communication | RS485 / Dry Contact |
| Certifications | CE, RoHS, ISO 9001:2015 | Warranty | 24 Months |

CERTIFICATIONS

CE

RoHS

ISO 9001

NEXAKEY

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