



Fastlane[®] Elliptical

The Ultimate Combination of Intelligence and Elegance

Fastlane Elliptical™ is an optical turnstile with a large pedestal for enhanced security. It combines the intelligence, speed, and tailgate superiority of Fastlane's optical technology with an imposing pedestal to detect and alarm unauthorized access.



Operation

The Elliptical typically operates in a secure mode. With an access system approval, one person can pass through the lane in the approved direction without alarm. The Elliptical will automatically sound a local alarm to alert security staff if someone enters the lane without authorization. A secondary relay can optionally activate stricter security actions such as triggering CCTV, locking doors, or controlling elevators.

The Elliptical is designed to be longer so security guards can more easily detect unauthorized access in a multi-lane scenario. With the longer pedestals, there is an improved likelihood the intruder will still be in the lane when the alarm is indicated.

ADVANCED INTELLIGENCE

Unlike others, Fastlanes are incredibly intelligent computers. At the heart of a Fastlane turnstile is an infrared beam matrix coupled with a custom-designed microprocessor featuring neural network programming. They monitor the movement of people with pinpoint accuracy, detecting tailgaters at just ¼ inch apart. Inherently more secure, the superior intelligence in this technology also yields faster throughput and increased alarm accuracy.

User-Friendly and Safe

Visitors and employees alike pass through the Elliptical with speed and confidence, enhancing user and guard acceptance. Users are greeted by an intuitive user interface, which automatically guides the user through the entry and exit procedure, ensuring fast, easy access for authorized users.

The absence of a physical barrier ensures fast throughput and unrestricted movement for all personnel, with safe disabled access and free emergency egress in the event of a fire alarm or power outage.

Key Benefits

More Secure

Unsurpassed tailgate detection and deterrence

- ▶ Detects tailgaters following as close as ¼" behind authorized personnel

Unsurpassed Accuracy

Intelligence virtually eliminates false alarms

- ▶ Differentiates body mass from smaller objects, such as umbrellas or many empty wheelchairs
- ▶ Increases user and guard acceptance, avoiding "tune out"

Fastest Throughput

Greater return on investment

- ▶ One person per second often means fewer lanes required, and less wasted time in lines

Most Streamlined

Architect-inspired solution

- ▶ Takes up less space... only 38 inches long.

Easy to Install

Enhances your bottom line

- ▶ Cat 5 interconnections simplify installation
- ▶ Low voltage reduces installation costs

Applications

Typical applications include high-rise building lobbies, corporate offices, financial institutions, and government facilities.

Materials

The tops, side panels, and end caps are made of 304 stainless steel with a horizontal grain (240 grit). The beam windows are made of Perspex 962. A variety of options is available to customize the units so they easily blend into the aesthetics of the building.

Pedestals come standard with squared ends, but elliptical ends are available.

Visitor Management

Fastlane features a Visitor Management input. When activated by security personnel this can allow an individual, or group of individuals to pass through the lane in a supervised fashion, after which the system returns to its secure state.

Disabled Access

A wider lane using the same streamlined pedestals allows for wheelchair or cart access. This eliminates the need for costly, space-consuming, and aesthetically different passgates. Audio/Visual feedback is standard. Fastlane is compliant with ADA as well as most international standards.

Options/Accessories

- Integrated Bar Code/Proximity Reader Solution
- Fastlane Floor Protector
- Fastlane Infill System
- Fastlane Remote Control
- Multiple Reader Mounting Options

Please see the *Fastlane Accessories* document for additional details.

Technical Specifications

Pedestal Dimensions (standard & ADA):

Height: 37.75" (960 mm)
 Width: 12.1" (308 mm)
 Length: 49.3" (1,252 mm)
 Weight: approximately 165 lbs (75 kg)

Lane Width:

Standard Lane: 19.6-28" (550-700 mm)
 ADA Lane: 33-39" (850-1,000 mm)

Speed of Throughput:

1 person per second (subject to response time of access control system)

Tailgate Detection Distance:

¼ inch (5 mm) minimum

Optics:

Pulsed multi-infrared beam array, synchronized for detection.
 Environmentally hardened to avoid sunlight interference.

Display:

Tri-color end-of-lane LED display

Sounders:

Single Tone Sounder: Card Authorization
 Multi-Tone Variable Volume Sounder: Alarm Condition

Operating Modes:

- Bidirectional Card In/Card Out on Demand
- Bidirectional Card In/Free Exit
- Enter Only/Exit Only
- Lane Closed

Power Requirements:

Input: 100-240 V AC, 50-60Hz, 120VA
 Output: 24 V DC, 0.25 amp for Fastlane CPU

Inputs:

Require voltage-free contacts (current sense 1 mA typical).
 Entry Request (NORMALLY OPEN closing for 1 second)
 Exit Request (NORMALLY OPEN closing for 1 second)
 Visitor Access (NORMALLY OPEN momentary momentary pushbutton)
 Fire (Opto-coupled input 12-24 V DC @ 25 mA nom)

Outputs:

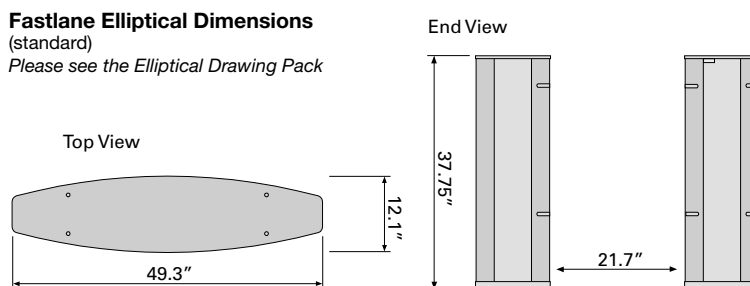
Voltage free relay contacts rated 0.5A, 28 V DC in two groups for the following functions:
Output to System
 Entry (NORMALLY CLOSED opening for 1 sec.)
 Exit (NORMALLY CLOSED opening for 1 sec.)
 Alarm (NORMALLY CLOSED opening for 1 to 16 seconds)
Flow Control and Alarm Outputs
 Ready for Entry (NORMALLY CLOSED, NORMALLY OPEN, COMMON poles)
 Ready for Exit (NORMALLY CLOSED, NORMALLY OPEN, COMMON poles)
 Remote Alarm (NORMALLY OPEN)

Certifications (power supply only):

UL 60950-1, 2nd edition
 CSA C22.2 No. 60950-1-07, 2nd edition

Due to continuous improvements, specifications are subject to change without prior notice.

Fastlane Elliptical Dimensions (standard)
 Please see the *Elliptical Drawing Pack*



Manufactured by Integrated Design Limited. Fastlane is a registered trademark of IDL, 1995.

With thousands of systems installed on 6 continents, Fastlane is a world leader in elegant and intelligent optical turnstiles.