



Fastlane® Plus AS

The Ultimate Combination of Intelligence and Elegance

Fastlane Plus AS is a premium optical turnstile with breakaway barrier arms that can operate in an open mode. It combines the intelligence, speed, and tailgate superiority of Fastlane's optical technology with a barrier to detect and physically impede unauthorized access.

Operation

Fastlane Plus AS is unique in the line because it has additional detection beams that allow it to operate in a Normally Open mode. This gives the lane and lobby a welcoming, unrestricted appearance. In this mode, the arms would only close if there was an unauthorized entry into the lane. The operating mode can be instantly changed to work in a Normally Closed fashion if security demands it. The AS has 5 modes of operation:

1. Normally Open (Barriers retracted)
2. Normally Closed (Barriers extended)
3. Optical Mode (Barriers always retracted)
4. Lane Closed Mode (Barriers always extended)
5. Auto Mode (Barriers extended)

Modes are electronically selectable to suit various entry needs within the day or week. The lanes can be connected to a remote control panel or integrated with third-party systems for automatic mode selection.

Fastlane Plus AS will automatically sound a local alarm if someone enters without authorization. If that person proceeds into the barrier arms, a second, louder alarm will sound. A secondary relay can optionally activate stricter security actions such as triggering CCTV, locking doors, or controlling elevators.



User-Friendly and Safe

Visitors and employees alike pass through the AS with speed and confidence, enhancing user and guard acceptance. The barrier arms of the AS typically close within a 1/2 second. This, combined with the safety beams, allows the arms to safely close on tailgaters within 6 inches. The multiple safety beams are designed to stop the arms from closing if they detect someone in the way..

The AS barrier arms feature a unique, self-returning, variable-tension breakaway system complying with most international emergency egress regulations. With enough force, the barrier will break away in either direction to minimize injury, and will automatically reset to the closed position. Fastlane Plus also features a fire alarm input to retract and disable the barrier arms, thereby allowing free, unrestricted exit. The barriers can open in the same manner in the event of a power outage.

Key Benefits

More Secure

Unsurpassed tailgate detection and deterrence

- ▶ Detects tailgaters following as close as ¼" behind authorized personnel
- ▶ Performs as a reliable barrier, with self-returning breakaway arms to impede intruders

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

Easy to Install

Enhances your bottom line

- ▶ Cat 5 interconnections simplify installation
- ▶ Low voltage (24 V) reduces installation costs

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.

Applications

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

Materials

For the standard Fastlane Plus AS, the tops are either white-backed, clear glass or the same 304 stainless steel with a horizontal grain (240 grit) of which the side panels and end caps are made. The barrier arms are brushed aluminum, and the beam windows are made of Perspex 962. Customization options help the units to further blend into the aesthetics of a building.

Pedestals come standard with (S)quared ends, but (R)ounded and (W)edge-shaped ends are available.

Visitor Management

Fastlane Plus 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 and having longer barrier arms allows for wheelchair or cart access. This eliminates the need for costly, space-consuming, and aesthetically different passgates. Audio/Visual feedback is standard. Fastlane Plus is compliant with ADA as well as most international standards.

Options/Accessories

- FastScan™ Tenant/Visitor System
- Fastlane Floor Protector
- Fastlane Infill System
- Fastlane Remote Control
- Multiple Reader Mounting Options
- Anti-Crawl Beams

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

Technical Specifications

Pedestal Dimensions (standard and ADA):

Height: 38" (965 mm)
Width: 6.6" (168 mm)
Length: 50.12" (1,273 mm)

Barrier Arms:

Retracting, breakaway arms, self returning
Diameter: 1.5" (38 mm) tube
Standard Length: 10.7" (271 mm)
ADA Length: 15.6" (396 mm)

Lane Width:

Standard Lane: 23-28" (600-700 mm)
ADA Lane: 33-38" (850-960 mm)

Opening/Closing Time: 1/2 second minimum

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

Tailgate Detection Distance: ¼ inch (5 mm) minimum

Barrier Variable Breakaway Force:

Short Arm: 0.7-1.5 Newton (5-15 kg)
Long Arm: 0.5-1.0 Newton (5-10 kg)

Optics:

Optical Turnstile - pulsed multi-infrared beam array, synchronized for detection.
Barrier Safety - pulsed multi-infrared beam array.
Environmentally hardened to avoid sunlight interference.

Display:

Tri-color LED display

Sounders:

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

Operating Modes:

- Card In/Card Out • Card Entry/Free Exit
- Free Entry/Card Out • Free Entry/Free Exit
- No Entry/No Exit • Auto Entry/No Exit

Power Requirements:

Input: 100-240 V AC, 47-63Hz, 1500 mA
Output: 24 V DC, 60 W, 2.5 A

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 closing contact)
Fire (Opto-coupled input 12-24V DC @ 25 mA nom)

Outputs:

Voltage free relay contacts rated 0.5A, 28V 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 sec.)
Barrier Arms Forced Alarm (Depending on alarm type) (NORMALLY CLOSED)

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)

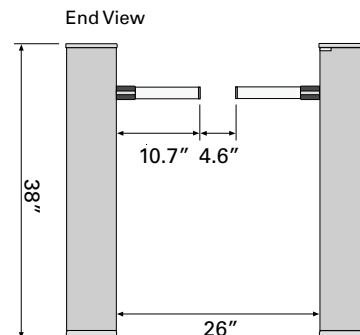
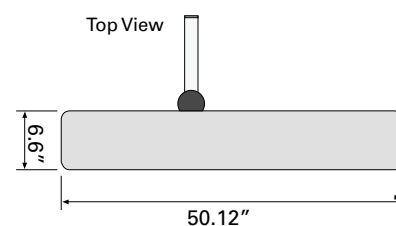
Certifications (power supply only):

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 Plus AS Dimensions (standard)

Please see the AS Drawing Pack



Manufactured by
Integrated Design Limited.
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trademark of IDL, 1995.

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