Fastlane®*plus*

Setting New Standards in Entrance Technology

- Optical Turnstile with integrated barriers
- Stops all unauthorised entry attempts
- Fast throughput
- Physical and Visual Deterrent
- Compact, Aesthetic Design
- Compatible with all access systems
- Compliant with the UK Disabilities Act

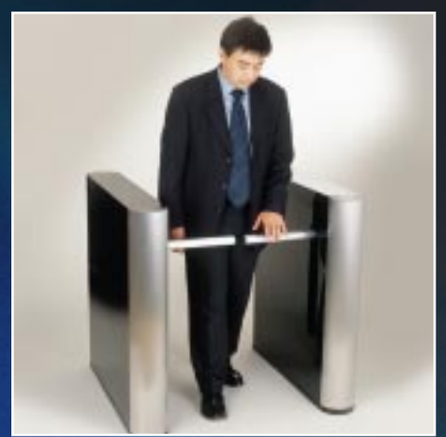
Barrier arm optical turnstiles

Concept

Combining the best of optical turnstile and physical barrier technology, Fastlane *plus* is the very latest in high tech entrance control systems. Fastlane *plus* uses state of the art optical technology to monitor the passage of every individual entering and leaving a facility, combined with fast-acting barrier arms to physically prevent unauthorised access. Clients and employees alike pass through Fastlane *plus* with speed and safety whilst all unauthorised entry attempts are identified and prevented.

This unique combination of technologies provides all the aesthetics and ease of use benefits unique to Fastlane, the world's leading optical turnstiles, with the added protection and deterrent effect that physical barriers provide.

BSIA
British Security Industry Association



Fastlane®*plus*

Function

Designed to work with any access control system, Fastlane *plus* is an optical turnstile with integrated barriers designed to stop all unauthorised entrants, thereby ensuring only one person gains access for each authorised card presented. The system utilises active infrared beams to create an invisible electronic field between two pedestals. These beams are controlled by a microprocessor utilising neural network technology designed to monitor the movement of people with pinpoint accuracy, detecting tailgaters at just 5 mm apart.

Versatile

Fastlane *plus* has six modes of operation

1. Normally Open (Barriers retracted). The barriers will extend to close the lane in the event of an unauthorised entry. In the event of an unauthorised exit an alarm is activated.
2. Normally Closed (Barriers extended). The barriers will retract upon a valid card presentation. In the event of an unauthorised exit an alarm is activated.
3. X Mode (Barriers partially extended). Providing a partial visual deterrent, the barriers will fully retract upon a valid card presentation. The barriers will extend to close the lane upon detection of unauthorised entry, In the event of an unauthorised exit an alarm is activated
4. Optical Mode (Barriers permanently retracted). The unit functions as a standard optical turnstile, activating an alarm if unauthorised access or egress is detected.
5. Lane Closed Mode (Barriers permanently extended). The lane is permanently closed to prevent either exit or entry.
6. Auto Mode (Barriers extended). When a person enters the lane, the barriers automatically retract. When they have passed through the lane, the barriers automatically close. Unauthorised exit is prevented. This is an ideal solution to directional control problems where it is necessary to ensure large volumes of people go in one direction only.

In Normally Closed, X-Mode and Auto Mode, for convenience and to maximise throughput, after a valid transaction the barriers will remain retracted for a short period awaiting presentation of the next valid card. If a person enters the lane without being authorised, or no person is detected after this time, the barriers will extend to close the lane.
In Normally Open and X-Mode, if a person is detected entering the lane the barriers immediately begin to close, retracting again if a valid card is presented or the person retreats out of the lane.
This unique feature, along with the speed of activation of the barrier arms, enable Fastlane *plus* to have a much smaller footprint than other similar systems, thereby allowing a discrete design and minimal impact on the building design.
Operating modes are electronically selectable so it is possible to change the modes at different times of the day or week. The lanes can be connected to a manual remote control panel, or integrated with 3rd party systems for automatic mode selection.

Secure

Fastlane *plus* functions automatically and in the event of an alarm can activate its barrier arms to stop the unauthorised entrant. The system will simultaneously alert security staff to the unauthorised entry attempts by triggering an audible alarm and providing an output which can trigger other security measures such as activation of CCTV recordings, or further alarm annunciation.

In the event that someone attempts to push through the barrier arms the alarm status automatically escalates and a second, louder audible alarm will activate along with a secondary alarm output to activate further security measures such as the locking of doors, or controlling elevators.
As well as monitoring for unauthorised entry and exit, Fastlane *plus* can also:

- Stop Tailgating - People who attempt to enter without a valid access card by following closely behind an authorised cardholder.
- Detect Collusion & Obstruction Two individuals actively colluding to gain entry with a single card, or where beams are deliberately blocked.
- Deter Pass-back - to maintain the 'one card, one person, one direction' rule, assisting the access control system to maintain 'anti-passback' integrity.
- Detect Non-entry - Fastlane *plus* can detect when a card is presented but a person does not pass through the lane. e.g. Time and Attendance fraud

Aesthetic

The discreet presence of Fastlane *plus* offers all the benefits of standard optical turnstiles in terms of aesthetics and design flexibility. The pedestals can also be custom designed to complement the most diverse design environments, providing a welcoming and non-confrontational entrance to staff and clients alike. Using Fastlane *plus* ensures the ultimate combination of architectural flexibility and security.

User Friendly and Safe

Users of Fastlane *plus* are greeted by either a high visibility text display, or a multicolour LED graphic display, which automatically instructs the user through card presentation, entry and exit. The displays are programmable for alternative messages and graphics. The text display can be programmed to operate in different languages, allowing companies to offer a personal welcome to staff and visitors.

The unique design of Fastlane *plus* ensures fast throughput (typically over one person per second) and unrestricted movement for all authorised personnel, with safe disabled access. To ensure safe emergency egress, Fastlane *plus* also features a fire alarm input to retract and disable the barrier arms, thereby allowing free, unrestricted exit.

Disabled Access

Fastlane *plus* is fully compliant with the UK Disabilities Act, as well as most similar international standards. Audio/Visual feedback is provided as standard, and the lane provides for unhindered wheelchair access without the need for a separate passgate.

Low Maintenance

Fastlane *plus* has been designed with easy installation and low maintenance in mind. Fastlane *plus* can be integrated into any existing access control or building management system and can be used in conjunction with most card reading and biometric technologies. Fastlane *plus* ability to integrate smoothly with all technologies, makes it the ideal turnstile choice for companies who require a secure, quick, reliable and aesthetic form of entrance control.

Applications

The primary use of Fastlane *plus* is in access control environments which require the same level of security as a traditional half height turnstile, but desire the highest level of tailgate detection and discreet aesthetics that Fastlane *plus* offers. The design concept allows a flexible approach to providing effective access control in areas where previously security had been desirable but the associated aesthetic implications had been unwelcome or prohibitive. Typical applications include office entrances, reception areas and computer rooms, for clients ranging from financial institutions, government bodies, advertising and media agencies, health clubs and other leisure facilities.

Technical Specification

Power Requirements
12v DC (11.9-14v) Supply current 1A nom per lane
32Vdc (34-30V) supply current 3A max per lane.
Mains PSU supplied (110v or 220v).

Standard Enclosures
Brushed stainless steel with dark IR filter sides.
Enc. Dims 965 x162 x 967 millimetres (38x7x38 inches)

Optics
Optical Turnstile - pulsed multi Infrared Beam array, synchronised for detection.
Barrier Safety - pulsed multi Infrared Beam array.

Display
User programmable, 20 character vacuum fluorescent or multicolour LED graphics display.

Inputs
Require voltage-free switching (current sense 1mA typical)
Entry Request (NORMALLY OPEN)
Exit Request (NORMALLY OPEN)

Outputs
Voltage free relay contacts rated 0.5A, 28vDC in two groups for the following functions:
Output to System:
- Entry (NORMALLY CLOSED)
- Exit (NORMALLY CLOSED)
- Alarm (NORMALLY CLOSED)
- Barrier Arms Forced Alarm (NORMALLY CLOSED) (specification dependent)

Flow Control and Alarm Outputs:
- Ready for Entry (NORMALLY CLOSED, NORMALLY OPEN, COMM poles)
- Ready for Exit (NORMALLY CLOSED, NORMALLY OPEN, COMM poles)
- Remote Alarm (NORMALLY OPEN)

Programming Software
Operating System: Windows 95, 98, NT compatible

Opening/closing time
1/2 second

Speed of Throughput
Typically 1 person per second

Tailgate Detection Distance
1/2 centimetre

Barrier Arms
Fixed Arms: 38mm dia. aluminium tube
Foldback Arms: 38mm dia. tube, self returning

Lane width
Standard: 600mm-710mm (24"-28")
Arm Length: 275mm (11")
Disabled: 850mm-960mm (34"-38")
Arm Length: 400mm (16")

(Due to continued improvements specifications are subject to change without prior notice)

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