The Fastlane Range

Integrated Design Ltd has developed the Fastlane Entrance Technology range to meet the changing requirements of the modern building environment. The wide range of solutions is designed to meet the different balance of security, convenience and aesthetics your project may have.

The Fastlane 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.

Fastlane systems are designed using the latest infra-red technology, either with or without the integration of physical barriers, to bring you the very latest in high tech entrance technology for the modern business environment.

Integrated Design is committed to making the project a success from helping with the initial security assessment to product selection and the implementation of a successful entrance control solution.

The Products - Overview

Fastlane is a state of the art 'optical turnstile', which replaces the need for an obtrusive physical barrier by utilising active infra-red beams to create an invisible electronic field between two pedestals, monitoring the passage of every individual entering and leaving a facility.

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 deter unauthorised access. Clients and employees alike pass through Fastlane ***plus*** with speed and safety whilst unauthorised entry attempts are identified.

Fastlane Door Detective uniquely answers the problem of tailgating at access controlled doors by creating an infra red field across the door opening to monitor the passage of every individual entering and leaving through that door. In the event of an unauthorised entry the system will provide local and remote indications to alert the individual concerned and security.

The Products - Detail

Fastlane® Optical Turnstiles

- Fast throughput, in excess of 1 person per second
- Detects Tailgaters as close together as ¼ inch
- Unhindered disabled access
- Unrestricted emergency egress
- Integrates with all access control systems
- Built-in graphics or text displays for greetings and instructions
- Wide range of standard designs, with customisation options
- Simple installation and virtually maintenance free
- Over 1000 systems installed world wide

Fastlane optical turnstiles are designed to replace traditional fixed arm turnstiles used to control building access. They utilise infrared beams between pedestals to remove the need for the physical barrier. Fastlane provides a similar level of security as a traditional ½ height turnstile, yet the open appearance created by optical turnstiles ensures acceptance in most office environments where the overall design is of paramount importance to the aesthetics of the building.

Fastlane optical turnstiles automatically monitor the passage of every individual entering and leaving a building. Security staff therefore are only required to deal with exceptions such as unauthorised users or visitors without a valid pass. However as there is no barrier a far higher speed of throughput can be achieved. Additionally the lack of barrier makes Fastlane easier to use, provides unrestricted emergency egress and there is no requirement for a separate gate for disabled users. With no moving parts there is little maintenance requirement ensuring operational reliability and minimal cost of ownership.

Fastlane optical turnstiles use a dedicated custom-built microprocessor with neural network decision making. This gives Fastlane its superior performance in terms of speed of throughput, tailgate detection and lack of false alarms.

Fastlane Enclosures & Options

Fastlane Compact

Fastlane is supplied in a rectangular shaped stainless steel and Perspex enclosure as standard. The stainless steel ends have been designed so that they can be painted or produced in any type of material, including marble and wood, to complement different interior designs. This unit is supplied with a quick release base as standard to allow for easy temporary removal. Text displays are included as standard, graphics displays are available as an option.

Fastlane Channel

Fastlane is available in a channel design, which provides a longer length enclosure for companies who require a more imposing physical presence, whilst still ensuring the quick unhindered access of a barrier free operation. The longer enclosure enables some of the larger card readers (typically those of up to 125x125 mm/5''x5'') to be employed underneath the Perspex lid for a clean, aesthetic finish and greater card reading ranges.

Fastlane Cylindrical

Fastlane is available in a cylindrical shaped pedestal to ensure the most discreet physical presence available providing an alternative enclosure to complement different design concepts. The cylindrical shaped unit is particularly suitable for companies that have an access control requirement but the fabric of the building will not allow traditional turnstiles, such as listed buildings.

Fastlane Clearstyle

The Fastlane Clearstyle has been designed to provide the most discreet form of security possible. The construction is a combination of stainless steel and clear Acrylic. The stainless steel end sections can be finished in a variety of finishes to ensure a perfect match with its surroundings. Clearstyle will provide a similar level of security to a traditional turnstile whilst blending into the fabric of the building, making this unit the perfect combination of security and aesthetics. Users are guided through the system by clear tri colour display.

Fastlane R400 *OT*

The Fastlane R400 OT was designed with security and architectural flexibility in mind. The R400 OT comes with 12 IR beams paths and anti crawl feature as standard. The unit also features interchangeable vanity tops allowing the use of virtually any materials to be used to blend the pedestals in to the fabric of the building. The R400 OT also features Cat 5 interconnections to simplify the installation process.

Fastlane Elliptical

The Elliptical has been designed to provide a curved and longer length enclosure for clients who require a more imposing physical presence, whilst maintaining the highest speed of throughput. The Elliptical lane provides security guards with easier unauthorised access detection in a multi-lane scenario as the illegal entrant is still in the lane when the alarm is indicated.

Fastlane Wall Mount Unit

A wall mount unit is available for installations where the depth of a Fastlane pedestal is not appropriate, such as corridors. Wall mount units can be installed proud or flush to the surface of the wall as required. They are finished in black painted steel and black Perspex. These units are not supplied with any text displays, however remote graphics or text displays in wall mounting boxes are available as options.

Customisation Services

Integrated Design offer a bespoke design service, liaising with architects and designers to produce an enclosure to meet your exact specification.

OEM (electronics only) unit can be supplied to customers for 3rd party enclosures. Call IDL for advice.

Fastlane® *plus* - Barrier Arm Optical Turnstiles

- Optical turnstile with integrated barriers
- Physical and visual deterrent
- Deters unauthorised entry attempts
- Barrier Arms close on tailgaters as close together as 6 inches
- Fast throughput of 1 person per second
- Compact aesthetic design
- Compliant with most disabilities acts

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 deter unauthorised access. Clients and employees alike pass through Fastlane ***plus*** with speed and safety whilst unauthorised entry attempts can be identified.

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 barriers provide.

Safety Issues

The Fastlane ***plus*** range are fast operating optical turnstiles with a mechanical barrier. Fast closing operation is necessary to discourage unauthorised entry attempts e.g. 'tailgating' in a 'small footprint' product. We have included a number of safety features to reduce the risk of damage and injury during normal use including limiting the torque available, the physical mass of the barrier arms, and providing infra-red beams to reduce the possibility of the barrier closing on a user.

Fastlane ***plus*** is intended to operate in an orderly environment e.g. in corporate foyers where the speed of approach is limited. It is not intended to safely arrest persons who (for example, by virtue of their own momentum) are unable to stop.

It is important (as with any access control device) that each user is introduced properly to Fastlane ***plus*** and shown how to use it in conjunction with the card access system provided. In order to reduce the risk of injury, It is recommended that children should only use Fastlane ***plus*** when closely supervised by an adult.

Flexible

Fastlane ***plus*** come in AS or MA versions which can be operated in a number of different modes (subject to version), including Normally Closed, Normally Open, Optical, X-mode, or Lane Shut Mode. These modes can be changed remotely via a switch to meet changing security, aesthetic and throughput needs.

Fastlane *plus* Enclosures & Options

The following is an introduction to the Fastlane plus range. For a more detailed comparison please refer to the chart on page 9

R300 AS

The R300 AS is designed to close on tailgaters, and has 6 operational modes including normally open. The R300 AS features a unique self re-setting breakaway arm for emergency egress and a clear 'traffic light' style display to guide users through the lane.

R300 MA

The R300 MA is designed to operate in normally closed mode. The unit features a 'traffic light' style display to guide users through the system. The R300 MA has a vanity top system allowing a wide variety of materials to be used to blend the pedestal in to the fabric of the building thereby creating minimal impact on the overall design scheme. The R300 MA can be configured as card in/card out or card in/free exit with automatic hand free operation of the barrier arms on exit.

R400 AS

The R400 AS has 6 operational modes including normally open and is designed to close on tailgaters. The R400 AS has a vanity top system allowing a wide variety of materials to be used to blend the pedestal in to the fabric of the building thereby creating minimal impact on the overall design scheme. Additional features include a Throughput Management System to maximise flow rates. (*The unit pictured right is a S400 AS finished in brass with an inbuilt monitor for guards to view users pictures*)

R400 MA

The R400 MA is primarily designed to operate in normally closed mode and has 4 additional operating modes. The R400 MA features a unique self re-setting breakaway arm for emergency egress and an intuitive lane status display to guide users through the system. The R400 MA can be configured as card in/card out or card in/free exit with automatic hand free operation of the barrier arms on exit. The R400 MA has a vanity top system for maximum aesthetic flexibility. The unit also features 24 individual beams paths including an anti-crawl system should anyone try to 'duck' under the barrier arms. (*The unit pictured above is finished in polished stainless steel*.)

Fastlane *plus* Comparison Table

Feature	R300 AS	R300 MA	R400 AS	R400 MA
Physical Size				
Pedestal Dimensions	965x162x965 mm	965x162x965 mm	965x162x965 mm	965x162x965 mm
Lane Width	Variable (600-700 mm)	Variable (600-700 mm)	Variable (600-700 mm)	Variable (600-700 mm)
Wheelchair width lane option	Yes (850-960 mm)	Yes (850-960 mm)	Yes (850-960 mm)	Yes (850-960 mm)
Modes of Operation				
Lane Normally Closed	Yes	Yes	Yes	Yes
Lane Normally Open	Yes	No	Yes	No
Barrier Arms partially extended	Yes	No	Yes	Yes
Barrier Arms permanently retracted	Yes	Yes	Yes	Yes
Barrier Arms permanently extended	Yes	Yes	Yes	Yes
Remote control option of Barrier Arm position	Yes	Yes	Yes	Yes
Unauthorised Entry Alarm Output	2-staged	2-staged	2-staged	2-staged
Unauthorised Exit Alarm Output	1-staged	2-staged	1-staged	2-staged
Performance				
Speed of throughput	1 person per second	1 person per second	1 person per second	1 person per second
Direction of movement of barriers	Vertical	Vertical	Vertical	Vertical
Barrier Arm closing time	.5 second max, Speed adjustable	.5 second max, Speed adjustable	.5 second max, Speed adjustable	.5 second max, Speed adjustable
Barrier Arms close on unauthorised entrants	Yes, 1 direction only	N/A	Yes, 1 direction only	N/A
Barrier Arms close on tailgaters	Yes, 1 direction only	No	Yes, 1 direction only	Yes
Tailgate detection distance	5 mm	5 mm	5 mm	5 mm
Distance between tailgaters for arms to close	250 mm	N/A	150 mm	150 mm
IR. Beam controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Barrier Arm motor	Stepper Motor	Stepper Motor	Stepper Motor	Stepper Motor
No of Detection Beams	12 off	12 off	20 off	20 off
Safety beams	Yes, 4 off	Yes, 6 off	Yes, 4 off	Yes, 4 off
Self Resetting Breakaway Arm	Yes	No	Yes	Yes
Fire Alarm Input	Yes	Yes	Yes	Yes
Card Buffering	Yes	Yes	Yes	Yes
Visitor management system	Yes	Yes	Yes	Yes
Throughput management system	Yes	No	Yes	No
Display System	Traffic lights	Traffic lights	Led Array/ Traffic Light	Led Array/ Traffic Light
“Hands Free” Free Egress	No	Yes	No	Yes
DDA/ADA Free Egress	Via push button	Via push button	Via push button	Automatic/ Via push button
Valid Card Sounder	Yes	Yes	Yes	Yes
In Lane Display	Traffic Light	Traffic Light	LED Array	LED Array
End of Lane Display	Option	Option	Yes	Yes
Recessed Card Reader Window	Option	Option	Yes	Yes
"Anti-Crawl" Alarm*	No	No	Yes	Yes
Unauthorised Entry Audible Alarms	Yes, 2 off	Yes, 2 off	Yes, 2 off	Yes, 2 off
Other				
Power Requirement	Low Voltage	Low Voltage	Low Voltage	Low Voltage
Interconnection Cable	Terminated screened cable/ Cat 5	Cat 5 Cable	Cat 5 Cable	Cat 5 Cable
Interchangeable Vanity Tops	Yes	Yes	Yes	Yes
Disability Discrimination Act compliance	Yes	Yes	Yes	Yes
BSIA Member Manufacturer	Yes	Yes	Yes	Yes
ISO 9001 Manufacturer	Yes	Yes	Yes	Yes

(Please note specifications subject to change without prior notice)

*anti crawl designed to detect someone ducking under the barrier arms

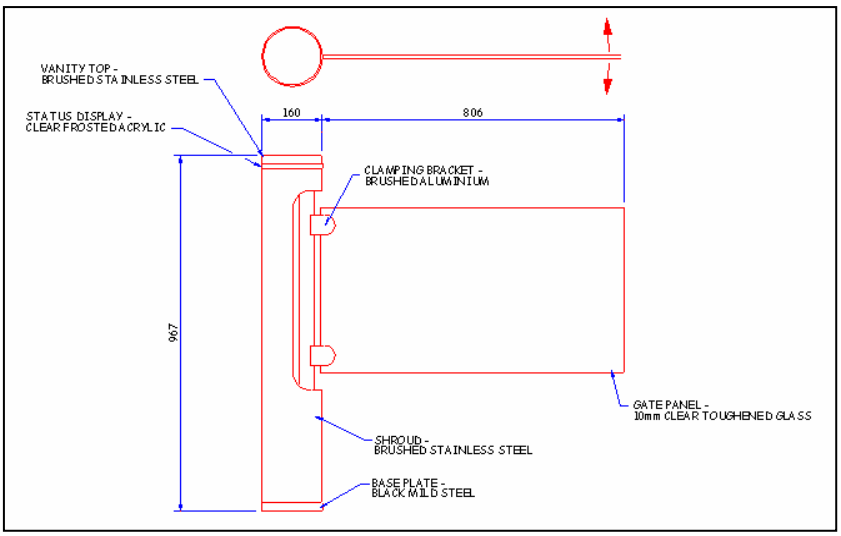
Fastlane® *Intelligate*

- Passgate system with integrated tailgate detection
- Detects Unauthorised entry attempts
- Intelligent solution for greater security and safety
- Compatible with all access control systems
- Total bi-directional control
- Compliant with most disabilities acts

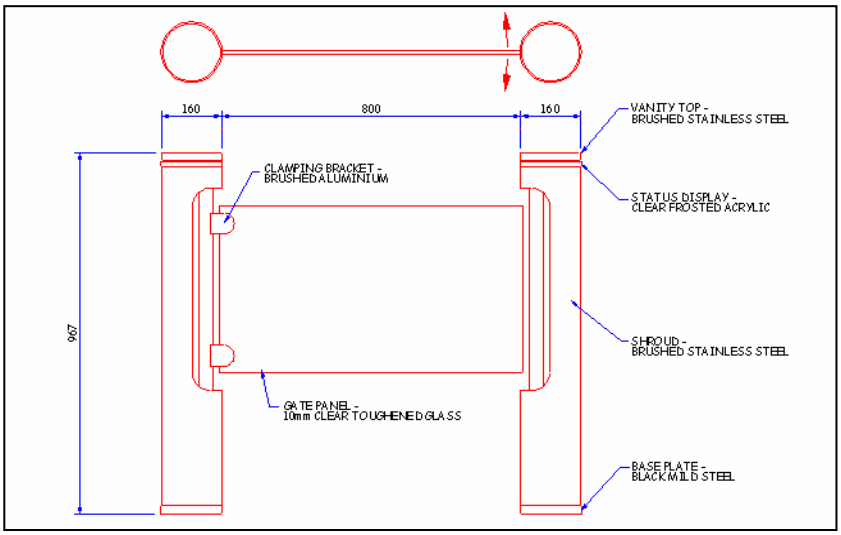
The Fastlane *Intelligate* is the very latest in high tech entrance control systems. The Intelligate is a bi-directional motorized access gate that allows suitable passage for all people, including wheelchair users and people with reduced mobility as well as facilitating the movement of packages etc. into a building.

Unlike conventional passgate systems the Intelligate uses state of the art optical technology to monitor the gateway while the glass barrier is open. Therefore the system is designed to detect if more than one person enters or a person goes in the wrong direction and then an alarm would be generated. This unique technology allows the gate to be used unmonitored whilst still providing effective security, thereby helping the Intelligate comply with most international disability regulations such as the DDA and ADA.

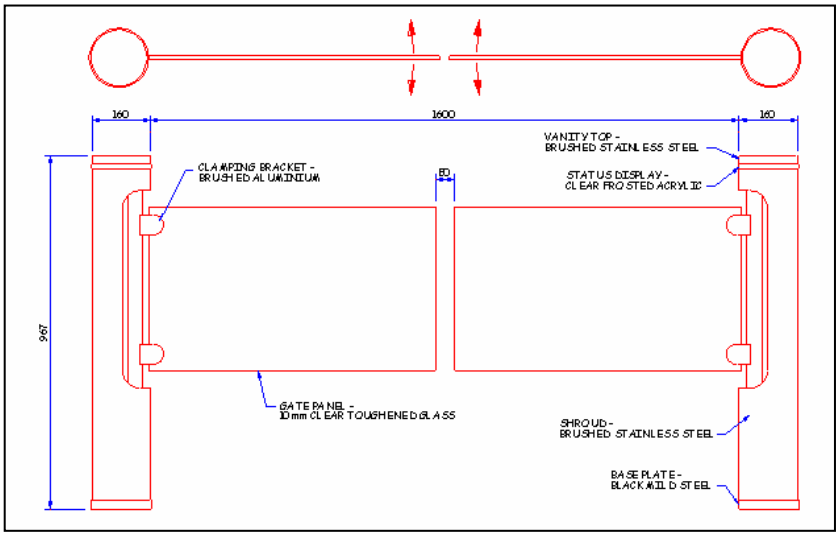
Standard passgate configuration (no tailgate detection)



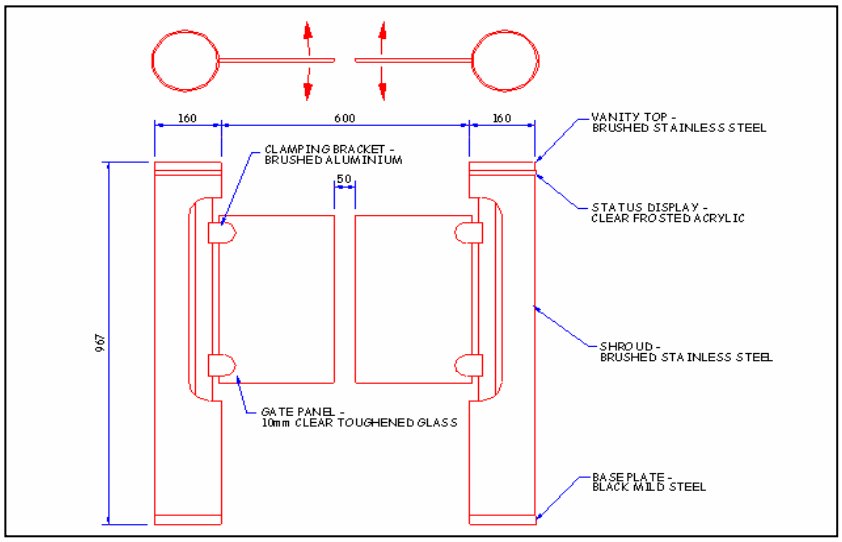
Passgate with tailgate detection



Long double passgate with tailgate detection



Short double passgate with tailgate detection



Intelligate with Tailgate Detection

With the tailgate detecting configuration the Intelligate resolves this problem by monitoring how many people pass through the gate when it is open, in the event that the number of people is more than the authorised amount or in the wrong direction the system is designed to generate an alarm. As the system knows when a person has passed through and it takes into account their speed the gate will close quickly behind them; this reduces the open and vulnerable time.

Additionally the Intelligate configured this way reduces the risk of someone being hit by the closing gate as it knows when the last person has passed through the open gateway and will close its barrier accordingly.

The Fastlane Intelligate functions automatically and, in the event that someone enters without authorization, an alarm will sound and a relay will be triggered; this can be used to control stricter security actions such as triggering CCTV, locking doors or controlling elevators.

Fastlane® Door Detective - High Security Tailgate Detector

- Increases the security of any access-controlled door, even when open
- Fully compatible with all access control systems
- Integrates seamlessly with door hardware
- Fast throughput
- Detects all unauthorised entry attempts
- Local alarm sounder and remote alarm output
- Unhindered disabled access
- Compact aesthetic design
- Door or Corridor Mounting
- Like having a guard at a door 24/7

Fastlane Door Detective uniquely answers the problem of tailgating at access controlled doors by creating an infra red field across the door opening to monitor the passage of every individual entering and leaving through that door. In the event of an unauthorised entry the system will provide local and remote indications to alert the individual concerned and security. Additionally the system can lock doors and trigger cameras to monitor illegal transactions and ensure events are recorded for later analysis. This ensures only one person gains access through a secured door for each valid card transaction thereby providing improved security at any standard door where access control is employed.

Software Based Decision Making

The Door Detective consists of two slim self contained units that are mounted either side of the doorway. Infra red beams between the units create a wall of detection to protect the passageway. In order to minimise false alarms the Door Detective uses a state of the art microprocessor, running a custom neural network to enhance decision making. This helps avoid false alarms from objects such as empty wheelchairs, briefcases, and umbrellas. Additionally the speed of the processing ensures that the Door Detective adds no inconvenience or delay to any transaction. To authorised users the system's operation is transparent.

Door Detective comes in three different models:

1) Door Detective CL

This is the Classic Door Detective for internal detection which comes in an architect inspired enclosure finished in silver or black high quality anodised aluminium mesh. This unit is ideal for buildings focussed on design and aesthetics.

2) Door Detective EL

This lower cost option is ideal for when security is paramount but aesthetics are not a major concern. The enclosure is finished in a moulded black Perspex surround.

3) Door Detective IP

This version of Door Detective is supplied in a rugged IP55 enclosure with a built in heater that is automatically activated in low temperatures ensuring reliable operation in most extreme weather conditions. This makes the IP Door Detective ideal for external applications such as outside and revolving doors.

Installation Rules

The Door Detective must be mounted on the side of the doorway opposite to the direction of the swing of the door. The Door Detective will not operate on doors that swing both ways.

The Door Detective is designed to work with single file entry. In the event of using it on a double door the security provided will be greatly enhanced by securing one side of the double door during normal use.

Door Detective - Areas for Use
The Door detective can be used on any door that uses a card reader to increase its level of security and offer greater peace of mind for the security system. Here are some examples of potential applications:

RETAIL STORES

Rear Door
Administrative Offices
Computer Centre
MIS Area
Cash Office
Stock Room
Data Centre
Cash Office
Parking Areas
Exit/Entrance Alert

HOSPITALS

Food Storage
Pharmacy
Data Centre
Nursery
Psychiatric Ward
Computer Centre
Storage
Supply Areas
Staff Areas
Exit Alarm

MANUFACTURING

R & D
Elevators
Stock Rooms
Offices
Finished Goods
Tool Bin
Electrical Control
Computer Centre
Parking Areas
Warehouses

OFFICES

Strategic Doors
Executive Offices
Customer Records
Computer Room
Supply Room
After Hours Entry
Stores areas

REMOTE SITES

Utility Sub Stations
Satellite Offices
Additional Buildings
Offsite Warehouses

COLLEGES

Laboratories
Computer Rooms
Offices
Faculty Only Areas
Supply Rooms
Equipment Areas
Warehouses

Other Considerations

Which product should I use?

I need to secure a high-throughput reception area.
Try Fastlane barrier free optical turnstiles. They are the perfect fit for most staffed lobbies and entrances, offering the perfect balance of security and speed, while maintaining an open, professional image. Employees present their security cards to the turnstile as they walk through, liberating security staff from the monotony of verifying easily forged photo badges and also increasing their efficiency

I need the extra security of a barrier without giving up the receptions open look.
Fastlane ***plus*** with barrier arms are the right fit. The barrier arm increases security and helps to eliminate alarms caused by people forgetting to present a card. Safety is assured with an array of optical safety beams and the barrier arms are designed to dropdown when the fire alarm is activated.

I need to secure an access controlled door; people are holding open the door for others and defeating the access control system.

Try installing Door Detective which is designed to solve the major problems associated with doors that are unlocked by a card: despite training, employees will hold the door open for others, or people will grab the door as it is about to close. Slim and stylish, the tailgate sensors make sure that only people who present a valid card are granted access to the building.

System Design Recommendations

Here are a few ideas to help you design a Fastlane system:

- The number of lanes required is based primarily on the buildings pedestrian traffic flow.
- Calculate the number of lanes required by analysing peak traffic flow (try looking at traffic flow both in the morning when the normal working day starts and in the evening when every one is leaving)

- Fastlane can handle up to 60 person per minute per lane (subject to the speed of the access control system and the users of the system)
- Take your peak traffic flow per minute and divide by 30. This will give you a minimum number of lanes required, N.B. We would always recommend at least 2 lanes to allow for coming and going through out the day.
- The more lanes you have the easier it is going to be for users to gain access to the building, and if you have too many lanes you may require more security guards to monitor the lanes.

- Ideally your guard station should be close to the Fastlane system and the guards should be able to see all the lanes and the people who use them. Additionally try to make sure they have unhindered passage to the lanes to respond to an alarm event.
- Think about integrating the alarm outputs in to a CCTV system to assist the guards and to record alarm events for later analysis
- Fastlane is compliant with most Disabilities regulations subject to lane widths. Typically standard lane widths are 600-700 mm (23"-28") and disabled access lane widths are 850-960 mm (33"-38"), please check local regulations.
- Think about having all but one lane as narrow as possible and one lane available for disabled and visitor access. Keep this lane as close to the guard station as possible so it can be more closely monitored.
- Gaps between the turnstiles and nearby walls etc can be blocked using the Fastlane in-fill panel system.
- Decide whether the system is to be card in/card out or card in/free exit. With Fastlane there is no additional hardware, beyond that of the access control system (readers etc), required to change the system from card in/free exit to card in/card out or vice versa.
- The guard station should be accessible from both the secure and the unsecured side of the Fastlane system to allow for visitors to sign in and courier deliveries.

Remote Control

The Fastlane Remote Control Unit is designed to provide maximum operational flexibility for Fastlane optical turnstiles**.** The unit is intended to be mounted at the security/reception desk and provide the attendant with functional control over Fastlane.

The Remote Control Unit is designed to provide:

1. Operational Mode Control (Fastlane *plus* only)

The 4 position rotary switch changes the position of the barrier arms on the Fastlane ***plus***.

- Optical Turnstile Mode
- Normally Open (Closing on Alarm)
- Partially Open (Closing on Alarm)
- Normally Closed Mode (Opening upon valid card presentation)

2. Key Switch

This can be used for a variety of options such as disabling the Operational Mode Control or enabling and disabling free passage for disabled access, large groups of important visitors or post carts etc.

3. Visitor Switch

A momentary push button is designed to offer a visitor management function.

4. Indicator

The Indicator is designed to illuminate when an alarm is activated to provide a visual indication of the lane alarm status.

Visitor Management

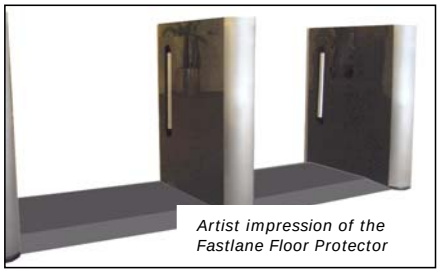
Fastlane and Fastlane ***plus*** feature a Visitor Management input. When activated this allows an unlimited number of people to pass through the lane. Once the visitors have entered and the system no longer sees anyone entering or exiting, for a period of time, it returns to its secure state. The lane should be supervised during this time. This input can also be used for uses such as post trolleys.

Card Readers

Fastlane products are designed to work with most access control systems and card reading technology including proximity, mag stripe, and biometrics. With Fastlane and Fastlane ***plus*** card readers can be either mounted under the Perspex (Plexiglas) lid for a discreet finish, or alternatively it can be fitted onto the outside of the pedestals. This depends on the dimensions of the card reader and their read range. Integrated Design is happy to offer help and advice in this area and can recommend suitable card readers.

Floor Protecting Base

The new **Floor Protector** system enables Fastlanes to be installed quickly and cost effectively, without drilling or otherwise damaging the floor on which they stand. The system is modular and designed to support Fastlane pedestals without the need for drilling fixing bolts in to the floor or running a conduit under the floor between pedestals for cables.



Artist impression of the Fastlane Floor Protector

The **Floor Protector** system is ideal for applications where the flooring materials used (such as marble, tiles, granites, etc) in the floor restrict drilling and cabling or where the building is Heritage Listed and any such works would be prohibited.

Additionally the system is ideally suited to temporary installations and sites where the tenants of a building are on a short-term lease and they do not want to affect the infrastructure of the building.

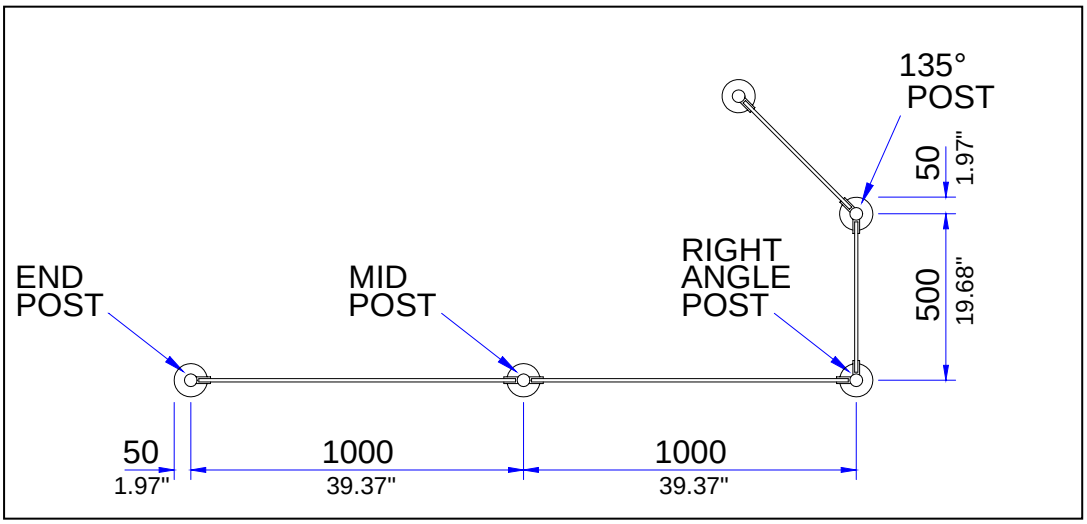
The **Floor Protector** is available in a 'wheelchair friendly' version to allow compliance with most international disability act regulations.

Fastlane Infill System

Figure 1

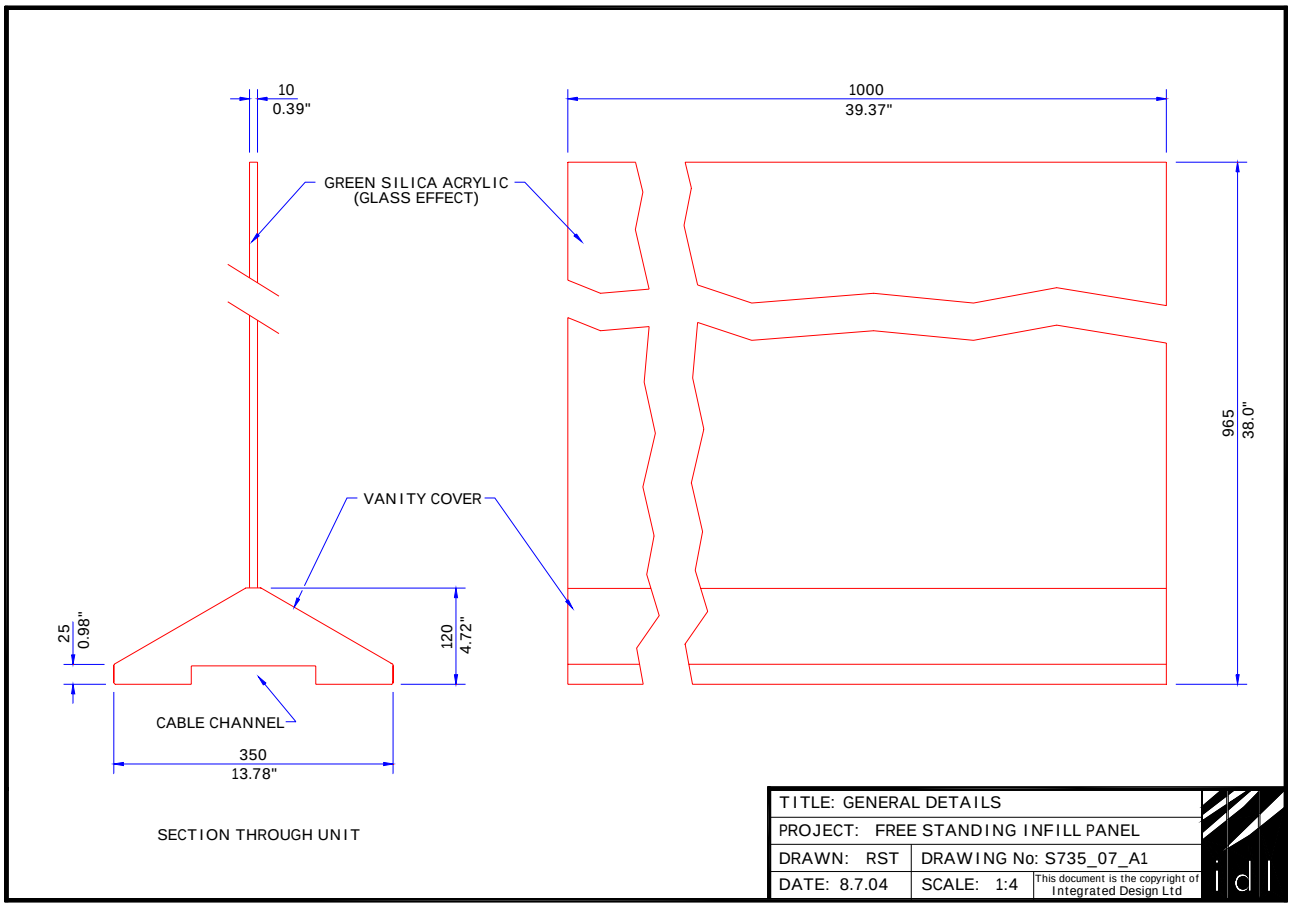
The Fastlane Infill System is a series of decorative modular panels, which compliment the Fastlane and Fastlane Plus turnstiles by guiding users in the desired direction.
The system comprises two standard panel lengths, and four standard post configurations, to suit most applications. Figure 1 shows a typical installation with an infill panel on the left.

Figure 2 shows configuration options



Free Standing Infill System

IDL can also supply a free standing Infill system that removes the need to drill floors etc. This unit is available in lengths of up to 2 meters. If longer section are required units can be placed together. The freestanding Infill system also features a tamper switch which is designed to be triggered if the unit is lifter up or knocked over



Disabled Access

Fastlane is fully compatible with the U.K. Disability and Discrimination Act (1996) and ADA laws and offers a number of unique benefits for *all* users.

There is no physical impediment delaying access into the facility, thus aiding those in wheelchairs (or using other aids to mobility) and those with less manual dexterity for whom entry via a traditional fixed barrier turnstile would be cumbersome and inconvenient. The design of the systems also ensures a quick and safe means of exit in the event of an emergency evacuation. All personnel can gain entry to a facility in the same manner; ensuring disabled persons require no special assistance.

Fastlane assists the hard of hearing and visually impaired by including a clear visual display system to instruct users as well as acknowledgement sounders when access is granted.

IDL's bespoke design ensures that pedestal specifications can be easily adapted to the required height and width for wheelchair users so that personnel can comfortably and quickly present their access cards to the system. Lane widths can be varied for wheelchair access.

The distance between Fastlane pedestals for a disabled lane should be confirmed with the appropriate local authority.

Applications

The use for Fastlane products is primarily in access control environments that require similar levels of security to turnstiles. The design principles in Fastlane allow a flexible approach to providing effective access control in areas where previously access control had been desirable but the aesthetic implications had been unwelcome or prohibitive. Typical applications include office entrances, reception areas, financial institutions, government buildings, and health clubs.

Here are a few short application studies:

Door Detective

Case A: Public Building

Following recent terrorist events an International Airport wanted to provide an increased level of security to doors that link public sections of the building to restricted areas such as maintenance and baggage control. Currently access control is used on the doors but it was acknowledged that an inherent weakness in the system was when the doors were left closing behind an authorised person and their attention was distracted as they walked away from the door. There was a risk of an unauthorised person running up and catching the door as it closed and then slipping, unnoticed, in to the restricted section of the building.

They employed Door Detective on key doors. Door Detective infra red field across the door monitors the door and how many people go through against how many cards were presented. In the event of an unauthorised person trying to enter the restricted area the system is designed to alert security and trigger CCTV allowing the situation to be monitored and recorded for later analysis.

Case B: Research Laboratory
A research laboratory wanted to increase the security of the doors in to the laboratory areas to make sure that only authorised staff entered. Due to the layout of the building it was impossible to install turnstiles but they found that staff were not challenging anyone who came in through an access controlled door after it was opened by an authorised person, resulting in the system being defeated.

They installed Door Detective on the key doors. This has forced everyone who accesses the laboratories to present their cards otherwise an alarm is generated. This has taken the onus of managing the security away from the staff, as they do not need to challenge anyone now, and put it back with the security team. In the event of an alarm CCTV is triggered so the security team can monitor the situation and take the appropriate response.

Fastlane

Case A: Leisure Club
A health club wanted a system to let members in quickly and easily whilst maintaining an open and friendly environment. Originally members went to the reception desk to get signed in by a receptionist, however this often resulted in queues at peak times especially when some members where booking special treatments.

The club instigated an automatic membership system combined with Fastlane. Now members present their membership card to the Fastlane and enter. This automation of the entry procedure has ensured quick easier access for the members and frees up reception staff to go about other duties and to spend more time with members who want some assistance. In the event of someone entering who is not authorised a local alarm is triggered and the reception staff stop the person. The event is also recorded by the CCTV system in case any later analysis is required.

Case B: Directional Control
A retailer has separate entrances from exits in order to facilitate the flow of customers around the shop. Due to the layout of the shop most staff members where located towards the till area at the exit of the building. They noticed some people entering through the main entrance, stealing items and then going back out, undetected, through the entrance.

Rather than staff the entrance they employed a stand alone Fastlane system integrated with a CCTV system. The Fastlane allows unrestricted access for people entering but alarms and triggers CCTV in the event of a person trying to leave the building via the entrance. The staff are easily able to control who left the building via the entrance and the retailer quickly noticed a reduction in the amount of shoplifting.

Case C: Listed Building
A leading financial institution in the City of London wanted to install turnstiles in their reception to make a secure internal perimeter and to create a safe working environment whilst protecting their assets and business information. However as the building was listed they found that they where not allowed to install traditional turnstiles due to the aesthetic implications.

The Corporation of London however approved the use of Fastlane. The Fastlane Cylindrical was chosen and finished with the same colour as the rest of the building metal work in order to ensure the best aesthetic fit and to create as minimal impact on the building design.

Customisation

Fastlane and Fastlane ***plus*** offer the ultimate in design flexibility. Integrated Design recognises that today's modern office environments demand effective security that does not encroach on the style or interior design of the office. Fastlane is available in a wide range of aesthetically diverse enclosures to suit various design styles.

Levels of Fastlane Customisation
Most Fastlane models use brushed stainless steel and black Perspex as standard material finishes. However, the system can be adjusted to suit specific design concepts by changing any material, colour or finish, or can even be totally re-designed according to individual requirements.

Customisation requirements should be submitted to Integrated Design in the form of a written specification, formal drawing or simple sketch. We will review your design and assess the extent of customisation required on the finished product. Your requirements may relate to:

- Tailoring
- Modification
- Custom Enclosure Design.

In all levels of customisation, we will provide you with a detailed quotation of the project that will outline all time scales, delivery dates, budgetary issues and any associated manufacture drawings. Quotations or budgetary estimates will be returned to you within two weeks for Tailoring and Modification and three weeks in the case of Custom Enclosure Design. A Project Manager will be appointed to you as a single point of contact for planning, monitoring and control of your project.

Tailoring
Tailoring may include minor alterations such as finishing of the stainless steel Fastlane enclosure, providing complete design flexibility. The mounting of card readers or the installation of additional sounders or beacons may also be included.

Modification
Fastlane Modification would include the finishing of the enclosure in an alternative material such as marble or wood, ensuring that your design scheme is not compromised. The Fastlane enclosure may also be enlarged or reduced in size. Modification can be useful when Fastlane optical turnstiles are the desired method of security, but the dimensions of standard units prohibit their use.

Custom Enclosure Design
This is the most flexible option and gives you the opportunity to re-design an enclosure to suit your specific design requirements. We will provide you with the technical assistance you need to produce an entirely unique and individual design, according to your individual criteria.

We will construct a prototype of your custom enclosure to ensure that you are fully satisfied with the product in terms of design, colour, finish and functionality. After completion of the prototype we can also produce an accurate cost per enclosure based on the approved design, for production in quantities of 1 or more units as required.

What Other People Say:

"As part of a well funded system of strategic access control Door Detective cannot be really faulted."
Security Installer Magazine

Traditional turnstiles are just too slow; Fastlane offered us an excellent alternative to conventional turnstiles. They provide us with an effective method of security, congestion is kept to a minimum, they are very simple to use and they blend in particularly well with the design scheme of the new building."
Computer Associates

"Fastlane allows all authorised staff quick, unimpeded access with an alarm activating to alert security only in the event of an unauthorised entry attempt. The company regards its clients as business partners so it was important that the entrance security maintained a welcoming and trusting image for visitors. Fastlane's barrier-free operation has proved to be the ideal solution."
Facilities Manager, Railtrack

"We required a turnstile that would create as little impact on the building as possible. We looked at a variety of options ranging from traditional turnstiles, glass turnstiles and Fastlane. The Corporation of London suggested the use of Fastlane, as its lack of physical barrier provides a very open appearance. This, combined with making the unit out of glass, gave us the most discreet option possible whilst maintaining security."
Julian Castle, the senior architect for Lloyds TSB

"Fastlane provides the level of security protection we require, enabling staff to gain rapid and convenient entry to work. Visitors are greeted with a discreet method of security screening ensuring that Thomas Cook presents a relaxed and welcoming presence to clients in which to do business, whilst detecting all unauthorised entrants."
Frank Magee of Thomas Cook Property Services

"The barrier-free operation and range of enclosures that Fastlane is available in, meant that it was the only turnstile option that could meet the criteria of detecting unauthorised entry, eliminating tailgating and pass-back, in the discreet aesthetic form that was required."
Nigel Fox of Advance

"The systems provide an effective means of balancing my responsibility to ensure a secure environment without adversely affecting employee relations."
Rodney Robson, Director of Security at Ernst & Young

"We tried our best to go faster than Fastlane could process, but we just couldn't do it"

SecurityManagement

Michael A. Gips, senior editor of Security Management magazine, testing Fastlane at QVC, Pennsylvania

"Door Detective is a great supplement to our access control system. It is being used in secure areas where we have to ensure only authorised staff has access, and the access control system by itself may not have been enough. For staff using Door Detective there is no difference, but now Gemplus security personnel are alerted each time someone tries to tailgate through a key area."
Geoff Flowers, Corporate Security, Gemplus

"Fastlane offers us a very strong security perimeter but does not detract from openness of our reception area and atrium. Fastlane's technology has enabled us to comfortably process over a thousand people per day. Sight lines and openness have been fundamental to the design of the office building, the use of a barrier turnstile would have been counter to this."
Gavin Davies, Head of HQ Services for Prudential

Additional Applications

The Fastlane range of Entrance Technology is primarily designed for security and access control, however the range can be used for other applications.

Directional Control

Fastlane's intelligent microprocessor allows it to sense the direction that people are walking through a passageway. Therefore Fastlane can operate as a stand-alone system that will allow unhindered access in the correct direction but raise an alarm or deter entry using the barrier arms of Fastlane ***plus*** in the event of someone attempting to go in the wrong direction. In the event of an alarm the system can trigger audible alarms, lock doors and activate cameras to monitor the illegal transaction and record the events for later analysis

Applications for this function include:

- Retail outlets that have a dedicated entrance with the exit being via the checkout tills. The system can be set up to allow free entry to all shoppers, but to alert security guards to any possible shoplifter who is attempting to avoid the checkout tills by exiting via the entrance.
- Fire exits of public buildings where exit is permitted but in the event of anyone entering the building when the fire exit is open Door Detective can alert security staff.
- 'Airside/Landside' areas of transport terminals where customs forbid passengers to go back to 'Landside' once they have passed Passport control.

Time & Attendance Control

An individual presenting not only their card but also the cards of other colleagues to 'clock' them in to the system can easily cheat Time & Attendance systems. Similarly it is possible for a user to clock themselves in to the building and then in fact leave. All Fastlane systems can be used at 'T&A' terminals to ensure that for each card presented a person enters or leaves through the channel or doorway. In the event of a card being presented and no one going through then the system can trigger an output to warn the T&A system that an illegal transaction has taken place.

Population Monitoring & Control

Fastlane technology can be supplied as a dedicated and highly accurate Population Counter device. It can be used to monitor building population limits to ensure compliance with fire regulations and can be a valuable management tool to facilities where traffic flow and population represent vital data and statistics. This type of information can help in the deployment of staff to busy areas at peak times and highlights the areas and features that are of the most interest, aiding future planning.

For single areas with one or more doors the Population Counter can be used with a Population Controller that has a display which will give real time population levels, usage levels and can trigger outputs when two different population limits are reached.

In the event of buildings with multiple areas and doors that need monitoring the Population Counters can be linked to a PC via an interface to be used in conjunction with counting software. The software can display the attendance by area, recording flow through each door or channel, storing the data in a format which can easily be transferred to other PC applications such as spreadsheets for further analysis, providing vital management information.

This application is also relevant to many other businesses connected with the entertainment industries, e.g. theatres, theme parks, galleries, sports grounds, museums, nightclubs and casinos.

A Sample of Fastlane Customers

Financial

Chelsea Building Society
Pricewaterhouse Coopers
Commercial Union
Legal & General
Ernst & Young
Goldman Sachs
Lloyds TSB Bank
HM Treasury

Services

John Brown Engineering
Northern Telecom
Heathrow Airport
Portland Airport
Hogg Robinson
Thomas Cook
Leo Burnetts
Freshfields
Gemplus
Motorola
NatWest

Science & Exploration

SmithKline Beecham
Amoco BP
Racal
DEC
ICI

Retail

Waitrose
QVC
Aldi
Harrods
Ladbrokes

Exhibition Centres

Business Design Centre
Florida Aquarium
Atlanta Olympics

International

Bradbury Science Museum, Los Alamos Labs
Baltimore Washington International Airport
Space and Naval Warfare System Center
American Museum of Natural History
Administratora Moliere, Mexico City
Borse Mercadorios Futures, Brazil
Turner Broadcasting, CNN Center
U. S. Department of Agriculture
Wyeth-Ayerth Laboratories
Shanghai Stock Exchange
Federal Aviation Authority
Ericsson Hewlett Packard
Canadian Diamond Mine
Port of Portland Airport
Astra Pharmaceutical
Millennium Chemicals
US Marshals Service
Hershey Chocolates
Johnson & Johnson
Malaysia Airlines
AOL Time Warner
Harley-Davidson
FAA Kansas City
ING Insurance
Bloomberg LP
Coca-Cola
M&M Mars
Bell South
Whirlpool
ARAMCO
US Navy
US Army
Petronas
Nokia
AT&T
AIG

(This Page is Intentionally Blank)

“We required a turnstile that would create as little impact on the building as possible. We looked at a variety of options ranging from traditional turnstiles, glass turnstiles and Fastlane. The Corporation of London suggested the use of Fastlane, as its lack of physical barrier provides a very open appearance. This, combined with making the unit out of glass, gave us the most discreet option possible whilst maintaining security.”

Julian Castle, the senior architect for Lloyds TSB

“We tried our best to go faster than Fastlane could process, but we just couldn’t do it”

Michael A. Gips, senior editor of Security Management magazine, testing Fastlane at QVC, Pennsylvania

“Door Detective is a great supplement to our access control system. It is being used in secure areas where we have to ensure only authorised staff has access, and the access control system by itself may not have been enough. For staff using Door Detective there is no difference, but now Gemplus security personnel are alerted each time someone tries to tailgate through a key area.”

Geoff Flowers, Corporate Security, Gemplus