



SLIMLINE

BARRIER TURNSTILES



Photos of comparable unit

Designed for use in building lobby applications where higher security, high speed throughput and interior aesthetics are priorities. The Optical Turnstiles with Swing Gates provide a visual as well as psychological barrier which communicates to pedestrians that authorization is required before entering the secured area. These units will monitor high throughput traffic flow of up to 60 people per minute per lane while optical sensors and gates ensure only one person entry for each authorized I.D. credential presented.

HIGH SECURITY

- Detects and deters tailgating
- Barrier from 38" to 72" height
- Electro/mechanical gate
- Crawl over detection

SAFETY COMPLIANCE

- Emergency egress operating mode
- Gates open in the direction of travel
- Do no harm arm operation
- No pinch points
- Meets ADA and Life Safety codes

THROUGHPUT

- Open/close time on barriers - $\frac{3}{4}$ second (acrylic)
- $1\frac{1}{2}$ second (glass)
- Barriers do not have to close after each passage
- Pictograms and barriers light up for easy visual cueing
- Can stack cards in memory

ROI

- Low cost of ownership
- 3 year warranty covering all mechanical and electronic components, 4 year warranty with commissioning
- Retrofittable upgrades
- Units and parts designed & manufactured in the USA

AESTHETICS/CUSTOMIZATION

- Modern design (8" wide bollard width)
- Multiple barrier height & end options
- Wide variety of finishes and paint colors
- Hand assembled in our Texas facility
- Customizable to fit building decore

SLIMLINE TECHNICAL SPECIFICATIONS

Pedestal dimensions

- Height: 38"
- Width: 8"
- Length: 54"

Outputs

- N/O - "Alarm Condition" (2x)
- N/O - "Passage Enter"
- N/O - "Passage Exit"
(after valid card read)
- N/O - "Bypass"

Power requirements

- 24 VDC @ 4 amps/
Walkway

Lane width

- ADA lane: 36"
- Single lane: 24"

Throughput

60 people per minute
(response time from
access control is the
determining factor)

Options/accessories

- On-site
commissioning
- Floor plates
- Infills
- Desktop controller
- Reader & scanner
mounting options
- Locking arms

Barrier dimensions

- Acrylic: 38" to 72" h x 17" w x
1/2" thick"
- Glass: 38" to 72" h x 17" w x
3/8" thick"

Inputs

- N/O - Momentary "Entry Granted" (max. 1 sec.
Pulse Closure)
- N/O - Momentary "Exit Granted" (max. 1 sec.
Pulse Closure)
- N/O - Momentary "Invalid Card"
- N/O - Maintained "Lane Bypass"
- N/O - Maintained "Emergency Situation"
- N/O - Momentary "ADA Entry"
- N/O - Momentary "ADA Exit"
- N/O - Maintained "Entry Closed"
- N/O - Maintained "Exit Closed"

Operating modes

- Card in/card out
- Card in/free exit
- Free entry/card exit
- Free entry/free exit

Tailgate detection

1/4" minimum between
individuals

Barrier options

- Acrylic - 1/2" thick
- Glass - 3/8" thick

Materials

- Top: 304 stainless steel
- Side: 304 stainless steel
- Barriers: acrylic or glass

Display

- LCD
- Infographic display

Reliability

5,000,000+ cycles under
normal conditions

End options

- Round end
- Square end

CRITERIA FOR DESIGNING AN OPTICAL TURNSTILE WALKWAY

Determine the number of walkways required based on the desired pedestrian throughput and space availability. A conservative estimate of pedestrian throughput is 30 people/min. This figure assumes the use of a fast response (1/4 sec.) card reader system.

Walkway bollards should be spaced 24" - 37" apart. Wider spacing results in pedestrians attempting to pass through the lane two - abreast, resulting in a high incident of alarms.

OPERATION

DSI turnstiles are designed to work in a normally closed position. The gate will open upon a valid access control input. Once open, a valid user can then pass through the lane. The gate will then close quickly behind the user or stay open if another valid input is in the queue. An alarm sounds and a dry contact closure is initiated if an unauthorized user tries to push through the gate or pass through (piggyback) behind a valid user. An emergency input is available and will open the gate and provide a visible and audible indication to aid in evacuation.

ADA COMPLIANCE

DSI swing gate turnstiles are compliant with ADA and NFPA life safety codes. Standard lane width is 36". All units have visual and audible feedback.

SLIMLINE ES9000 SERIES DIMENSIONS

(standard 36" single lane with gate)

