DSI ®
DESIGNED SECURITY, INC.
A Detex Company

High Rise
9-18

SLIMLINE
BARRIER TURNSTILES

Photos of comparable unit

HIGH SECURITY

- Detects and deters tailgating
- Barrier from 38" to 72 " height
- Electromechanical gate

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 - ¾ second (acrylic)
                                      - 1½ 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 (9" 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

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.

SLIMLINE TECHNICAL SPECIFICATIONS

Pedestal dimensions
- Height: 38"
- Width: 9"
- Length: 54"

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"

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

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

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 - Maintained "Entry Closed"
N/O - Maintained "Exit Closed"

Power requirements
24 VDC @ 4 amps/
Walkway

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

Display
LCD
Infographic display

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

Tailgate detection
1/4" minimum between individuals

Reliability
5,000,000+ cycles under normal conditions

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

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

End options
Round end
Square end

Options/accessories
- On-site commissioning
- Floor plates
- Infills
- Desktop controller
- Reader & scanner mounting options
- Locking arms
- Crawl over detection

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.
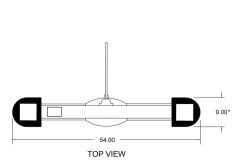
OPERATION

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.
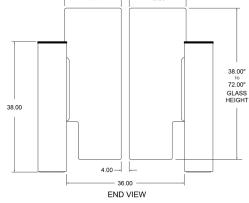
ADA COMPLIANCE

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.
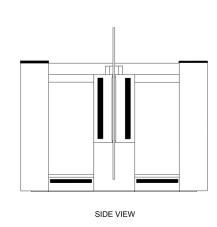
SLIMLINE ES9000 SERIES DIMENSIONS
(standard 36" single lane with gate)

TOP VIEW

END VIEW

SIDE VIEW