

**DSI**<sup>TM</sup>

DESIGNED SECURITY, INC.

*A Detex Company*

ES860



Canister Style Optical Turnstile

Model ES860





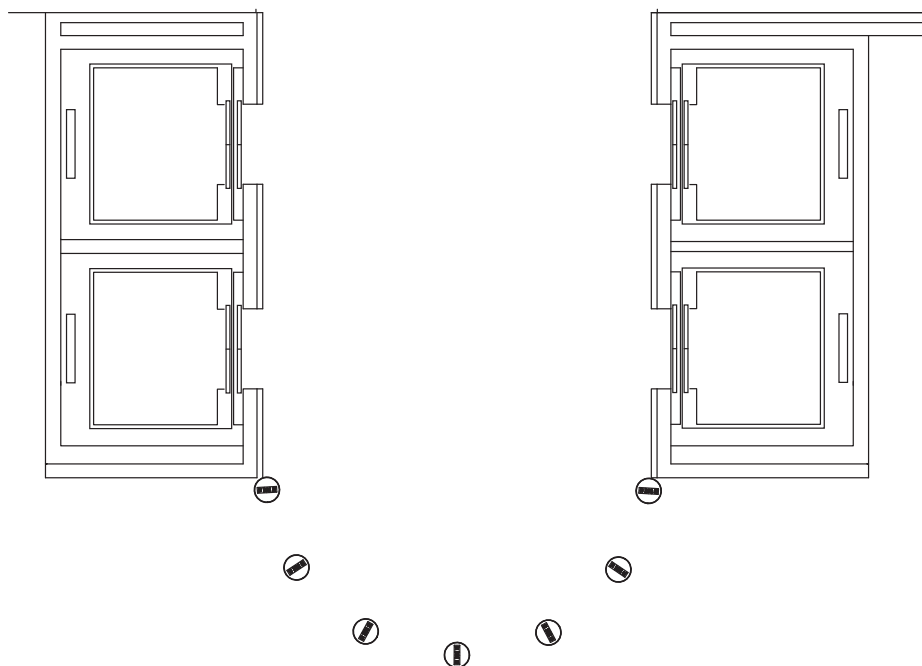
### CANISTER STYLE OPTICAL TURNSTILE

The Designed Security, Inc. **ES860 Series Optical Turnstile** monitors pedestrian traffic flow through an access control point and assures that only one individual can pass for each valid card presented, thus eliminating “Tailgating”. This system utilizes sensing pedestals to form passageways at the entrance to a controlled area. An individual must be granted ACCESS by the facility’s access control system in order to pass between the pedestals without activating an ALARM. The system is compatible with any type of cardreader technology and can be field configured for **CARD-IN/CARD-OUT**, or **CARD-IN/FREE-EXIT** operation. The system inputs allow the unit to be bypassed remotely and the outputs can be used to indicate an intrusion alarm, to indicate an invalid card or to count individuals as they enter and exit. The Canister Style Optical Turnstile System is designed for small to mid-sized lobby/entry applications where space is limited and pedestrian throughput is high. Adjustable optics allow for the ES860 to be arranged in a semi-circular pattern, allowing for more lanes and easier access.

When a user presents a valid card an audible chime sounds and a green arrow illuminates to indicate that access has been granted. When the individual walks through the passageway the system is reset for the next user. If an individual walks through the passageway without being granted access, an alarm output contact will be activated which can be used to initiate appropriate security response.

**Designed Security, Inc. Mid-Sized Optical Turnstiles meet the standards of the Americans with Disabilities Act of 1990.**

ES810/ES811  
ES820/ES821  
ES831  
ES840  
ES850  
**ES860**  
ES870  
ES880



### ES860 CANISTER STYLE OPTICAL TURNSTILE - TYPICAL APPLICATIONS

#### Criteria for Designing an Optical Turnstile Walkway

1. Determine the number of walkways required based on the desired pedestrian throughput and space availability. A conservative estimate of pedestrian throughput is 30-45 people/min., 1800-2700/hr., per walkway. This figure assumes the use of a fast response (1/4 sec.) card reader system.
2. Walkway bollards should be spaced 32" - 36" apart. Wider spacing results in pedestrians attempting to pass through the lane two abreast, resulting in a high incident of alarms.

#### Electrical Specifications

- Power:** 12 VAC @ 6 Amp/walkway; transformer included
- Inputs:** N/O dry contact/card reader for valid card  
N/O dry contact/card reader for invalid card (optional)  
N/O dry contact to override lane operation
- Output:** N/O alarm contact for walkway violation - 500 mA @ 30 VDC  
N/O dry contact for invalid card

#### Mechanical Specifications for the Bollard

- Size:** 13 3/8" dia x 38" high
- Mounting:** 1/4" plate steel base with 3 slotted mounting holes and 2" conduit hole.
- Finish:** Top Surface: DuPont Corian/Midnight\*  
Side Panel: Satin Brushed Stainless Steel\*

*\*Custom colors and finishes may be specified at additional cost*

# ENTRANCE SIDE



# SECURED AREA

## Designing a turnstile system

- (1) Determine the number of walkways required based on the desired pedestrian throughput and space availability
- (2) A conservative estimate of pedestrian throughput is 20 people/min, 1200/hr per lane. This figure assumes the use of a fast response (1/4 sec) card reader system
- (3) Turnstiles should be spaced 32" - 36" apart. Wider spacing results in pedestrians attempting to pass through the lane two abreast, resulting in a high incident of alarms

ES810/ES811 ES820/ES821 ES831 ES840 ES850 **ES860** ES870 ES880

