

# Barrier Arm Turnstile ES830 Series

## Operation:

The Barrier Arm Optical Turnstile is placed in a parallel arrangement to create a high speed/non-restrictive pedestrian walkway with barrier arms. The passageways are truly bi-directional at all times. The barrier arms react with a valid card read and swing in the direction of travel, resetting after pedestrian passage. Interference sensors within the walkway will detect an obstruction in the arms path and will prevent the arm from traveling if this condition continues. In standard mode, the barrier arm is extended and will retract upon a valid card read. The barrier arm may be set to remain retracted during periods of high-volume traffic flow. The barrier arm delay time is less than one second from fully extended to fully retracted, and will remain retracted as long as a steady stream of valid cards are being presented. This system can be field selected as a card-in/Free-Exit, or Card-In/Card-Out system configuration. Visual and audible annunciation is provided at each pedestrian walkway to provide indication of valid/invalid card read, lane status, and alarm conditions. The non-restrictive barrier free design provides equal access in compliance with the Americans With Disabilities Act of 1990/ADA, and the Fire/Life Safety Code 101, and standard building codes.

## Applications:

Entrance and exit points (manned, or visually monitored CCTV) in corporate offices, high rise building lobbies, and manufacturing facilities where controlled access is essential, but both aesthetics and pedestrian throughput is a major concern.  
Higher security applications where a visual/physical barrier is required

## Features and Benefits:

- Made in the USA
- Compatible with most access control systems
- Encourages employees to maintain access control procedures
- Simple installation
- Excellent Serviceability (virtually maintenance free)
- High throughput (25 people/minute, or 1500 people/per hour, per walkway)
- Localized alarm notifies area personnel of a security breach
- ADA compatible
- Provides visual and audible customer interface
- Bi-directional access control
- Digitized voice messages available
- All components and electronic subassemblies are mounted within the bollards, thus reducing the cost of installation, labor costs, conduit, wire, and cable
- Additional space in the bollard cabinetry for installation of related electronic packages
- Steel framework

## Options:

- Remote Controller/Display
- Digitized Voice Messages/Instructions at the passageways
- Custom Finishes: marble, stainless steel, wood, etc.

## Technical Data: (electrical):

Power:	24 VDC @ 4 Amp/walkway
Control Inputs:	N/O-Momentary "Access Granted" (max. one second pulsed closure)
	N/O-Momentary "Exit Granted" (max. one second pulsed closure)
	N/O-Momentary "Invalid Card"
	N/O-Maintained "Lane Bypass"
	N/O-Maintained "Emergency Situation"
	N/O-Maintained "Arm Operation Disable"
	N/O-Maintained "Card-In/Free-Exit"
	N/O-Maintained "Entry Closed"
	N/O-Maintained "Exit Closed"
	N/O-Maintained "Voice Enable"
Status Outputs:	N/O "Alarm Condition" signal
	N/O "Passage Completed"
	N/O "Passage Aborted" (after valid card read) signal
	N/O "Bypass Status"
	N/O "Invalid Card"

Technical Data (mechanical):

Size: 64" Long X 38" High X 10" Wide  
Barrier Arm: Machined aluminum, 16.5" arm length, 37" overall coverage  
Emergency Egress: Breakaway barrier arms design does not obstruct emergency evacuation of the facility  
Clearance Sensors: Six independent infrared beams within the walkway  
Finish: Top Surface – [DuPont Corian](#)  
Side Panel – [Nevamar/Formica](#) laminate over millwork