

OSAB-DA

Optical Swing Arm Barrier-Double Arm



Orion Entrance Control, Inc., offers a variety of aesthetically pleasing SpeedLane turnstiles that best suit your individualized lobby needs.

The **Optical Swing Arm Barrier Double Arm OSAB-DA** SpeedGate systems utilizes Orion Entrance Control, Inc.'s unique BeamScan™ optical detection solution. No touch swing arm barriers offer a visual deterrent to would be trespassers and tailgaters.

The standard finish is brushed stainless steel with horizontal grain and a Corian® top. Pedestals are available in either flat or rounded ends.



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Method of Operation

When a person approaches the SpeedGate turnstile for entry, they present an access card or credential to the access control card reader. The reader is typically mounted inside the pedestal, under the Lane Status Indicator or LSI. If the credential is valid, entry is authorized. The top-mounted LSI will change to a green arrow pointing in the authorized direction. A confirmation tone will sound, giving the user both an audible and visual notification that they may pass through the SpeedGate. The barrier will move in the direction of travel away from the user. A visual red X displayed on the LSI and an audible alarm signifies an invalid entry or a tailgating attempt.

Optical Detection

20 pairs (40 sensors) of industrial duty red LED photoelectric beams that are linked to the primary input/output board. The board has a 32-bit microprocessor for faster speed.

Throughput

One person per second. (Subject to access control outputs).

Tailgate Detection

The system recognizes patterns of movement through the lane to differentiate between a person pushing or pulling an item and a person attempting to piggy back on a valid entry. Beam scanning algorithmic pattern detection allows valid users of the lane to be within ¼ inch.

Bi-directional Card Stacking

For increased throughput the system is capable of receiving up to 99 authorized access credits. Barriers don't need to close between transactions and will remain in the open position until all of the credits are used. If all credits are not used or after 5 seconds of inactivity the system resets and secures the lane. Credit stacking is active in both directions simultaneously.

Sound Card

The Orion sound card emits 4 different tones via an 8 ohm speaker to indicate lane status, i.e.: valid transaction/enter, invalid card/intrusion, crawl/climb, or tailgate attempt. Digitally controlled, the sound card allows for volume adjustment on-board or via the Infinity Remote Lane Control™ software.

Power

The system runs on 24VDC and is powered from a remotely installed power supply. There is no requirement to run 120VAC to the SpeedGate turnstile pedestals. Each remote power supply requires a dedicated 120V 15A circuit and is required to be mounted within 100' of the turnstiles. An isolated 14 AWG 2 conductor cable is required to run from the power supply to each SpeedGate turnstile primary board. Each power supply will support two (2) lanes.

Reader Integration

Mounting options for proximity and bar code card readers are located at each end of the pedestal, just under the LSI array. Upon request, Orion Entrance Control can integrate a variety of other readers (barcode readers, swipe readers, biometric readers, etc.) and access control solutions at both ends of the SpeedGate. We can also recommend a single device reader that provides the ability to read bar codes, QR codes, proximity cards, and I class cards.

Lane Status Indicators

LED arrays are fitted into the pedestal tops, one for each direction, to visually assist the user when passing through the lane. Can also be front mounted, if desired.

Crawl Under Detection

Beams detect barrier arm crawl-under attempts as low as 10 inches from the floor and will trigger a visible and audible alarm and an appropriate trigger signal to the access control system.

Safety Features

Barriers will remain in closed position and must be manually moved to exit direction and will remain in that state until power is restored. Once power is restored, barriers will return to closed position.

Warranty

Three (3) year return-to-factory warranty on all electrical components.

AVAILABLE OPTIONS:

Infinity Remote Lane Control (Software Only) IRLC-SW

Orion's Infinity Remote Lane Control software is user friendly, intuitive and maximizes SpeedGate performance. IRLC-SW offers support for end users and integrators including advanced alarm type display, technical diagnostic service tools, lane beam status, I/O status, and on-the-fly volume adjustment.

Remote Lane Controller-Push Button RLC-PB

Allows security personnel access to lanes via desktop controller. A red LED indicates lanes in alarm and allows security personnel to acknowledge alarms, grant visitor access, reset barriers, and disables lanes.

Climb Over Detection

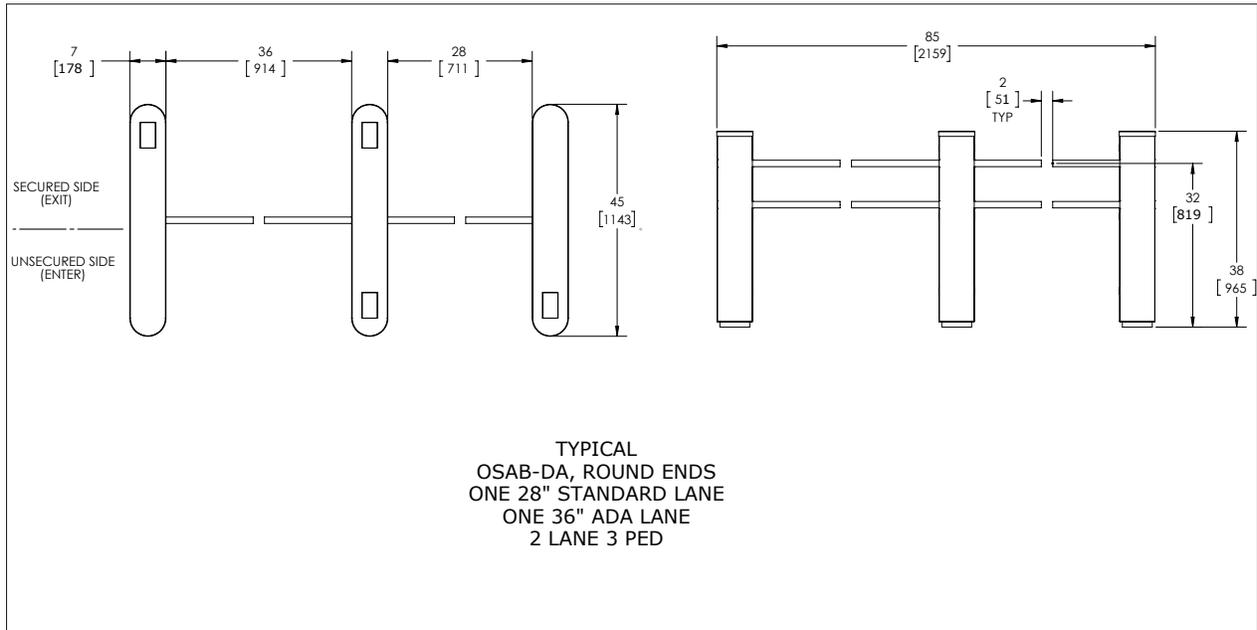
Utilizes load cell technology to detect an intruder attempting to climb on or over the pedestal top to gain entry into the building.

Optical Lane Mounting Platform

The Optical Lane Mounting Platform (OLMP) allows pedestals to be mounted and wired without having to be drilled into the floor.

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Technical Data

	Standard Inch	Standard MM	ADA Inch	ADA MM
Lane Width <i>Optional lane widths available from 22-36 inches</i>	28	711	36	914
Pedestal Height <i>Pedestal height may vary due to custom top material and technology installed</i>	38	965	38	965
Pedestal Length With Rounded Ends	45	1143	45	1143
Pedestal Length With Flat Ends	42	1067	42	1067
Pedestal Width	7	178	7	178

Certifications



Conforms to UL Standard 60950-1, subject 2593

The drawing and picture presented is illustrative only. Orion Entrance Control, Inc. reserves the right to change product specifications without prior notice.