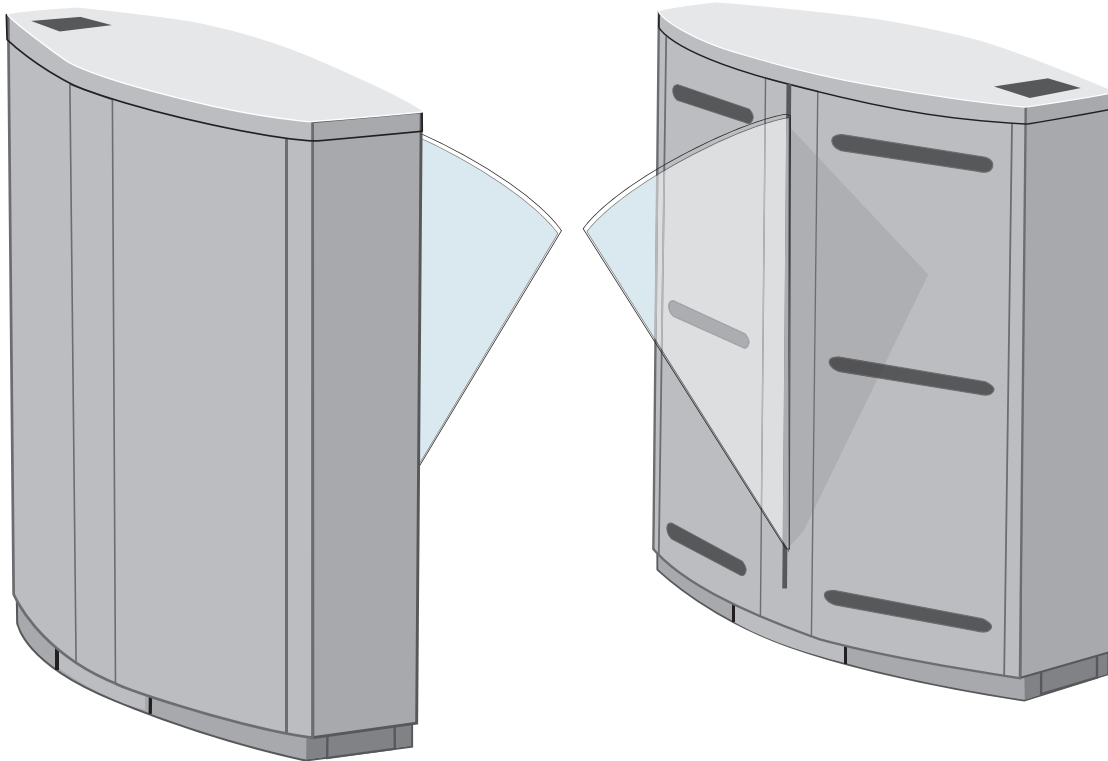


## **ORWB Standard**

### **Optical Retractable Wing Barrier Standard**



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

The **Optical Retractable Wing Barrier** standard width SpeedGate has 3/8-inch tempered glass wing barriers and makes an elegant addition to any entryway.

With unique visible and audible annunciators, to single out tailgaters, lobby staff can focus on only the exceptions.

The standard finish is brushed stainless steel with horizontal grain and a Corian® top.



## ORWB Standard

### Optical Retractable Wing Barrier Standard

#### Method of Operation

When a person approaches the SpeedGate 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 retract into the pedestal and allow the user to walk through. 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

In a power outage, barriers will remain in closed position. Barriers must be manually retracted into the pedestals where they will remain until power is restored.

#### 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 Control-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

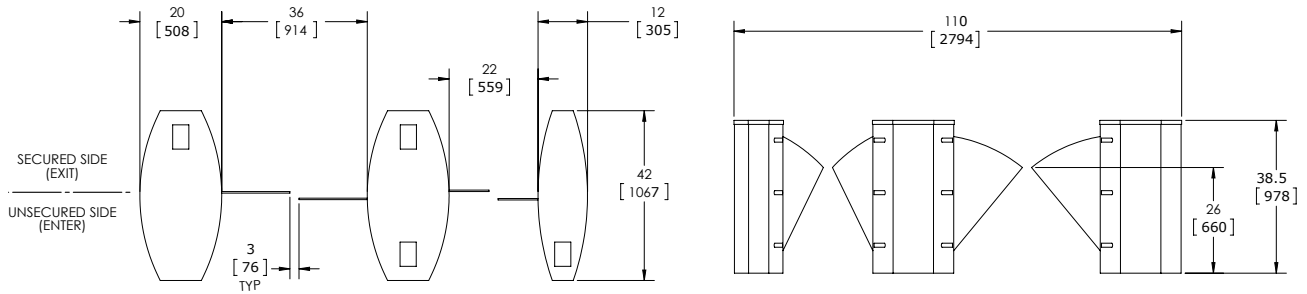
Utilizes load cell technology to detect an intruder attempting to climb on or over the pedestal top to gain entry into the building.

##### 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.

## ORWB Standard

### Optical Retractable Wing Barrier Standard



TYPICAL  
ORWB  
ONE 22" STANDARD LANE  
ONE 36" ADA LANE  
2 LANE 3 PED

### Technical Data

	Standard Inch	Standard MM
Lane Width	22	559
Pedestal Height	38.5	978
<i>Pedestal height may vary due to custom top material and technology installed</i>		
Pedestal Length With Flat Ends	42	1067
Pedestal Width	12	305

### 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.*