

# **OBSG-40Wave**

## **Optical Barrier Swing Glass 40Wave**



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

Featuring a practically silent motor drive system, the Optical Barrier Swing Glass-40Wave SpeedGate comes with 3/8 inch (9 mm) clear, tempered, swinging glass to keep the clean look of the lobby while meeting the highest security standards. The standard finish is brushed stainless steel with horizontal grain, and a Corian® top. Pedestals are available with either flat or round ends.

The OBSG-40Wave utilizes Orion's unique BeamScan™ detection algorithm for sensing tailgate and intrusion attempts



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### Method of Operation

When a person approaches the SpeedGate for entry, they present an access card or credential to the reader. The reader is typically mounted inside the pedestal, under the Lane Status Indicator. 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

22 pairs (44 sensors) of industrial duty red LED photoelectric beams that are linked to the primary input/output board. The PIO board has a 32-bit microprocessor for making decisions.

### 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 piggyback on a valid entry. Algorithmic pattern recognition allows for valid users to be as close as 1/4 inch.

### Bi-directional Card Stacking

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

### Throughput

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

### Audio

The Orion sound card emits 5 different tones via an 8-ohm speaker to indicate lane status. valid transaction, invalid card/intrusion, crawl/climb, sensor block, or tailgate attempt. Digitally controlled, the sound card allows for volume adjustment on-board or via the Infinity Remote Lane Control™ software. A built-in piano like tone generator can be used to create custom alarm sounds.

### Warranty

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

### Reader Integration

Mounting options for proximity and bar code card readers are located at each end of the pedestal under the LSI array, or surface mounted on Corian®. Upon request, Orion Entrance Control can integrate a variety of other readers (bar-code 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 panels or diffused LED colors are installed into the pedestal tops for each direction, to visually assist the user when passing through the lane. The LSI shows the user the status of the lane such as idle, waiting for entry, closed or in alarm. can also be front mounted, if desired.

### Crawl Under Detection

Sensors detect crawl-under attempts as low as 10 inches from the floor. Crawl attempts will trigger a visible and audible alarm and send an appropriate trigger signal to the access control system via relays.

### Fire Alarm

Equipped with FACP Mode when activated by the fire alarm system. The LSIs indicate free passage in both directions and the barriers move to the open egress position. The lanes will automatically restore to normal operation when system is reset. The barriers will not close while a user is in the lane.

### Power Loss

In a power loss scenario, barriers are free swinging and will remain in their most recent position. The barriers will remain in that state until power is restored. Once power is restored, barriers will return to the closed position automatically.

### Power

Orion Speedgates are low voltage. There is no requirement to run 120VAC to the SpeedGate turnstiles. 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. The system operates at 24vDC and consumes 35 Watts while idle, 40 Watts for continuous operation, and up to 120 Watts during barrier tamper prevention.

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### Available Options:

#### Infinity Remote Lane Control Software

Orion's Infinity Remote Lane Control software is user friendly, intuitive and maximizes SpeedGate control and functionality. 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.

#### Climb Over Detection

Utilizes load cell technology to sense weight applied to the top surface.

#### Optical Lane Mounting Platform

A ramp that allows pedestals to be mounted and wired without having to core for conduits or anchor to the floor.

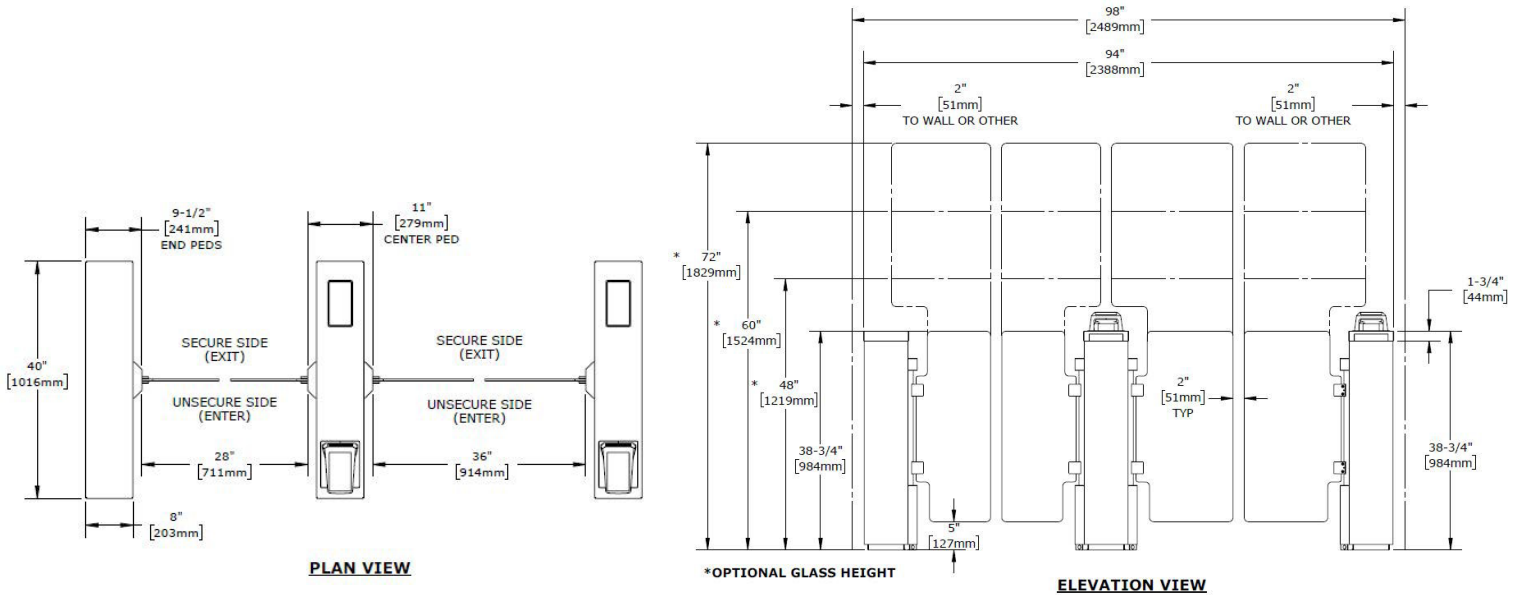
#### Logo Printing on Glass

Your logo or art is Dip-Tech printed on the glass panels.

#### Power Sleep Mode

System powers down to low power mode to save energy when not in use after a set duration. System activates when a user enters the lane or signal is received from the ACS.

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## Technical Data

|                                   | Standard        | Standard           | ADA             | ADA                |
|-----------------------------------|-----------------|--------------------|-----------------|--------------------|
|                                   | Inch            | MM                 | Inch            | MM                 |
| Lane Width                        | 28              | 711                | 36              | 914                |
| Pedestal Height                   | 38 3/4          | 984                | 38 3/4          | 984                |
| Pedestal Length - Flat Ends       | 40              | 1016               | 40              | 1016               |
| Pedestal Width                    | 8/9 1/2/11      | 203/241/279        | 8/9 1/2/11      | 203/241/279        |
| Glass Height Above Finished Floor | 38 3/4/48/60/72 | 984/1219/1524/1829 | 38 3/4/48/60/72 | 984/1219/1524/1829 |

*Pedestal height may vary due to custom top material and technology installed.*

## 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.*