ORION
ENTRANCE CONTROL, INC.

ODAB
Optical Drop Arm Barrier

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

The **Optical Drop Arm Barrier** speed lane has one of the smallest barrier footprints on the market today and complements any setting.

The standard finish is brushed Stainless Steel with horizontal grain and a Corian top.

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Method of Operation
When a person approaches the speed lane 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 speed lane. The barrier will drop down into the pedestal channel 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
Industrial duty red LED photoelectric beams 36 linked to Primary Input/output Board - 32-bit microprocessor with optional on board wireless LAN connectivity.

Throughput
One person/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 50 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 optional touch screen controller.

Power
Dedicated 120V 15A circuit must be provided/four lane maximum per circuit.

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, Inc., can integrate a variety of other readers (barcode readers, swipe readers, biometric readers, etc.) and access control solutions at both ends of the speed lane. 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 required.

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 appropriate trigger signal to the access control system.

Safety Features
Gravity will lower the barrier to the ¾ closed position and must be manually moved to the full open position 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 Controller Software IRLC-SW
Orion's Infinity Remote Lane Control Software is user friendly, intuitive and maximizes speed lane speed lane 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. **IRLC-SW data sheet HERE.**

Infinity Remote Lane Controller-Surface Pro IRLC-SP
Manage your IRLC-SW with a Microsoft Surface Pro 4 Tablet in an Armodilo case. **IRLC-SP data sheet HERE.**

Infinity Remote Lane Control Touch Screen (IRLC-TS-15 or IRLC-TS-24) The Infinity Remote Lane Controller-Touch Screen allows access to lanes via a desktop touch screen PC. Available in a 15- or 24-inch display.
IRLC-TS-15 data sheet HERE.
IRLC-TS-24 data sheet HERE.

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. **RLC-PB data sheet HERE.**
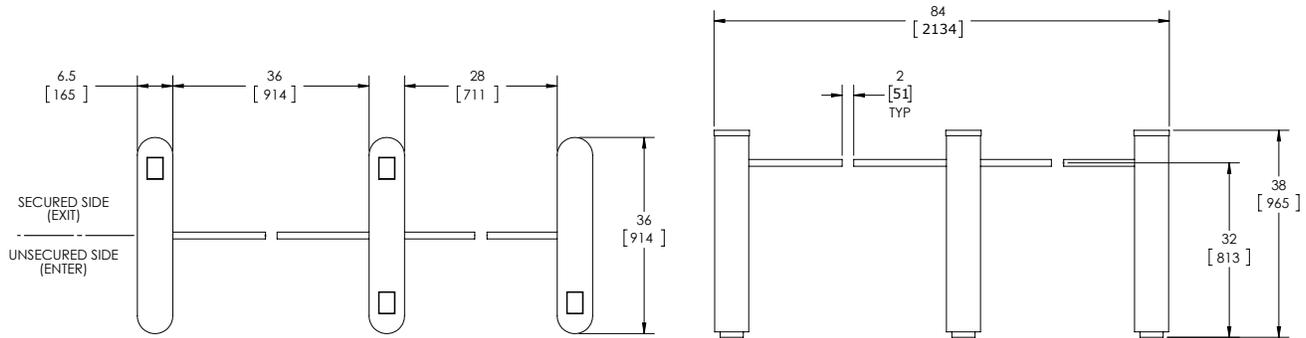
Climb Over Detection
Utilizes load cell technology to detect an intruder attempting to climb on or over the pedestal top to gain entry into the building.

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. OLMP data sheet HERE.

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TYPICAL
ODAB, ROUND ENDS
ONE 28" STANDARD LANE
ONE 36" ADA LANE
2 LANE 3 PED

Technical Data

	Standard Inch	Standard MM	ADA Inch	ADA MM
Lane Width	28	711	36	914
Optional lane width available from 22 to 42 inches.				
Pedestal Height	38	965	36	965
Pedestal height may vary do to custom top material and technology installed				
Pedestal Length With Rounded Ends	36	914	36	914
Pedestal Length With Flat Ends	33	838	33	838
Pedestal Width	6.5	165	6.5	165

Certifications

ETL Certified
UL Subject 2593
CSA Certified
CE Certified

The colors presented herein are illustrative only. Orion Entrance Control, Inc., reserves the right to change product specifications without prior notice. Not responsible for typographical errors.