

SlimLane EVO

Technical Datasheet

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AUTOMATIC
SYSTEMS

SlimLane **EVO**



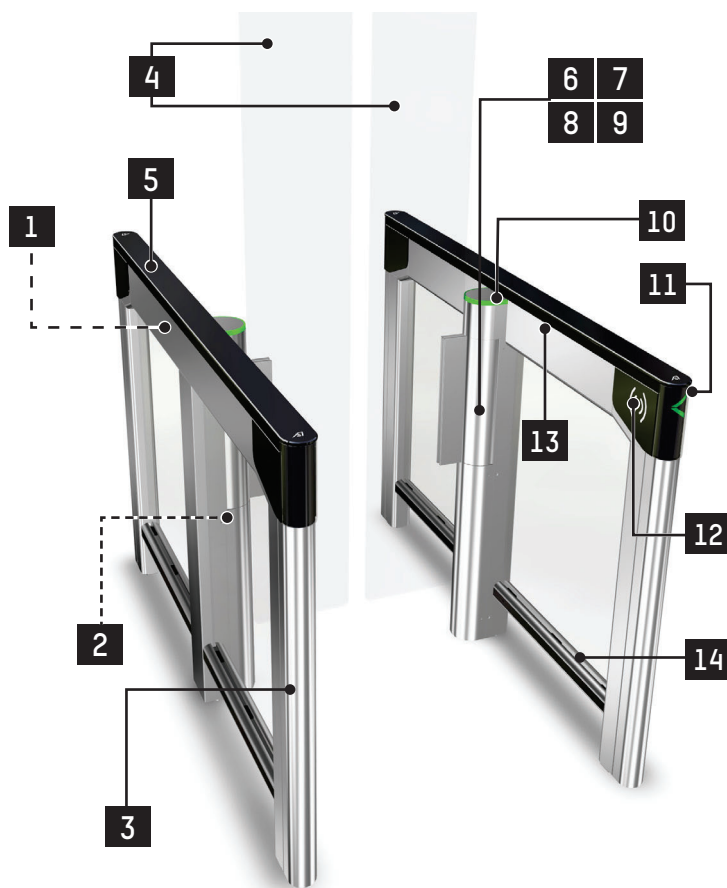
The **SlimLane EVO** enhances access control while protecting building entrances and managing pedestrian flow. Designed for indoor environments, this speed gate combines refined aesthetics with exceptional reliability, delivering high bidirectional throughput while maintaining optimal security levels.

Equipped with the Automatic Systems proprietary DIRAS detection system, **SlimLane EVO** ensures precise user tracking and maximum user safety with every passage. Its modular design supports multiple configurations, obstacle heights, and passage widths, while enabling seamless integration with next-generation identification and access control technologies.

With its transparent, adaptable design, **SlimLane EVO** integrates effortlessly into any architectural setting, including space-constrained environments, providing a flexible, high-performance solution for modern access control.



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DESCRIPTION

1. **Handrail frame** made of corrosion-resistant, electro-galvanized steel. The handrail integrates the photoelectric sensors used for user presence detection.
2. **Self-supporting kinematic frame** made of electro-galvanized steel. It contains the swinging obstacle electromechanical drive assembly and the electronic control boards.
3. Brushed AISI 304L stainless steel **housing**.
4. Clear, $\frac{3}{8}$ " (9.5 mm) thick **tempered monolithic glass obstacles**, swinging in the direction of user passage.
5. **Top cover** made of $\frac{5}{16}$ " (8 mm) thick tempered monolithic glass with a black screen-printed finish. The glass cover is highly scratch-resistant.
6. **Electromechanical drive units** for the obstacles, each includes:
 - a brushless DC motor with electronic commutation and a helical-gear reducer.

- a controller which provides progressive accelerations and decelerations of the obstacles, for smooth movement and enhanced user safety.
 - « **EGRESS** » standard operating mode :
Obstacles open in the egress direction with a simple push.
7. The **logic control board** ensures advanced traffic management capabilities. An embedded web server, accessible through a web browser, offers a user-friendly interface for configuring the gate's functional parameters, as well as a complete diagnostic and maintenance tool, simplifying product servicing. It integrates easily to access control and fire systems through I/O dry contacts.
 8. Transfer of information with external systems is available via XML-RPC protocol through an **Ethernet interface**.
 9. Information can also be transmitted through **dry contacts**, such as passage authorization, passage information, tailgating, technical fault, and more.
 10. **Status indicator lights** inform the user when passage is authorized.
 11. **Orientation pictograms** indicate gate and passage status to the user. They provide excellent long distance visibility to ensure a high and smooth flow of users. Represented by a cross and an arrow and enhanced with a distinctive color code, these symbols allow quick and intuitive understanding of the information. The direction of the arrow indicates which lane the user is authorized to enter as well as the location of the access control badge reading area.
 12. **Contactless reader** integration zone supporting RFID, NFC, or QR code scanning.
 13. Proprietary **DIRAS detection system**, consisting of a high-density matrix of infrared emitter/receiver photocell beams. The DIRAS system follows users' progression through the lane, and ensures their safety during opening/closing of the obstacles. The new detection algorithms deliver premium performance for detecting "tailgating" (even when users are very close to each other) and other types of fraud attempts.
 14. Enhanced electronic protection thanks to **lower-level DIRAS detection cells** (Entry and Exit directions).

Note: For information on the available configurations and their associated use cases, please contact us: sales.nam@automatic-systems.com.

THE RANGE



SlimLane EVO STANDARD



SlimLane EVO with EPW (Extended Post Wide) - Option



SlimLane EVO SC (Short Cabinet)



SlimLane EVO with EP (Extended Post) - Option

SOLUTIONS DESIGN



The SlimLane EVO's housing is made of stainless steel. As an option, it can be painted with a finely textured matte paint in any RAL color.

STANDARD TECHNICAL CHARACTERISTICS (PER LANE)

Power supply	Single-phase 120 VAC (5 A) (+/- 10%) - 50/60 Hz + ground. Do not connect to an ungrounded power network or to an industrial power distribution system with high-impedance grounding			
Consumption	At rest : 50 W Normal : 170 W Peak : 300 W			
Motor	24 VDC – 90 W output power			
	SLIMLANE EVO - STANDARD		SLIMLANE EVO - SC	
Free passage (W)	23" (584 mm) - Standard	36" (915 mm) - Wide	23" (584 mm) - Standard	36" (915 mm) - Wide
Weight (without obstacles)	Left unit : 156 lb (71 kg) Right unit : 152 lb (69 kg)		Left unit : 139 lb (63 kg) Right unit : 134 lb (61 kg)	
Number of passages	60 passages / minute (Depending on the access control system reactivity and the speed of users)			
Number of available Inputs/ Outputs	8 digital inputs, 2 digital outputs, 3 relay outputs			
Ambient operating temperature	-4 °F to 122 °F (-20 °C to 50 °C)			
Ambient relative humidity	Maximum of 95%, without condensation			
MCBF (Mean cycles between failures)	10.000.000 cycles, if maintained according to recommendations			
Noise level	55 dB (at 3' (1 m) from the motor)			
Protection index	IP40			
	As per UL 2593, File E19718			

OPERATING PRECAUTIONS

- For safety reasons, children (users smaller than 39" (1 m) tall) must be supervised at all times by an adult when in the vicinity of the unit and during passage through the lane.
- A child must absolutely precede the accompanying adult.

WORK TO BE PROVIDED BY OTHERS (NOT SUPPLIED)

- Performing the electrical interconnections and connections to the power grid.
- Performing the connections to the access control systems.
- Anchoring the equipment.

Note: please refer to the project specific installation drawings.

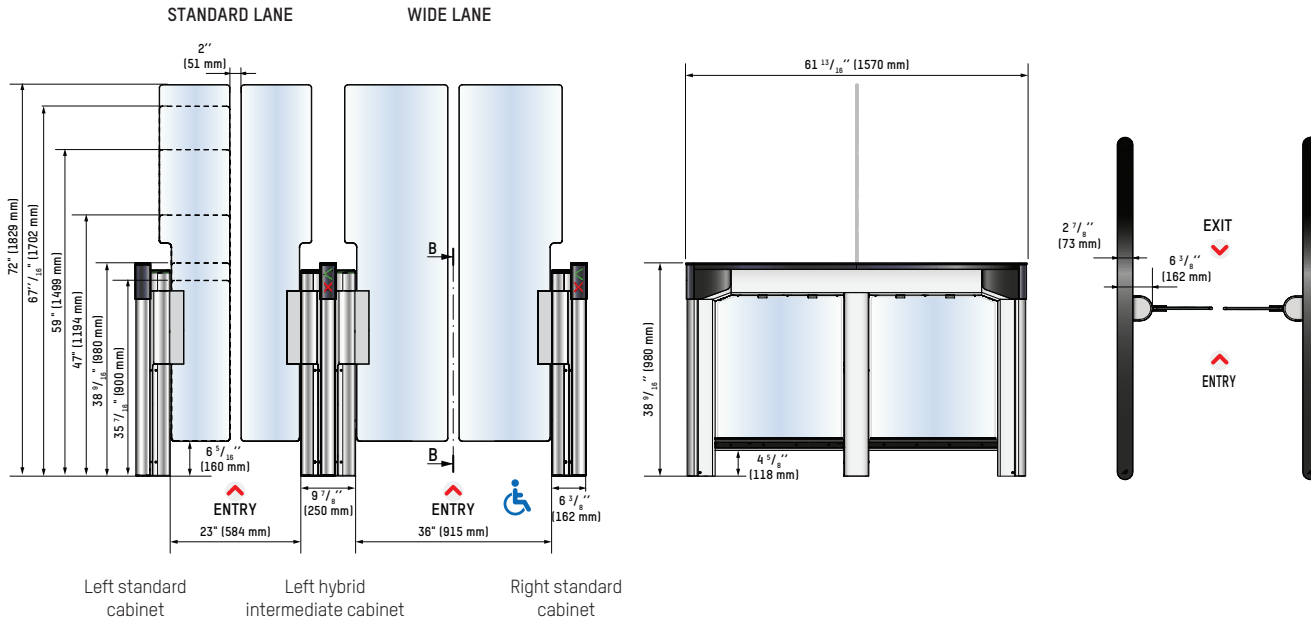
OPTIONS

36" (915 mm), ADA compliant lane. Compatible with 35 ⁷ / ₁₆ " (900 mm) high and 38 ⁹ / ₁₆ " (980 mm) high moving glass obstacles
High glass mobile obstacles : 47" (1194 mm) or 59" (1499 mm) or 67" (1702 mm) or 72" (1829 mm).
Single moving obstacle lane.
Side-filled glass - Mounted on the external side of the self-supporting kinematic frame.
Personalized logo on mobile obstacles : sticker like sand blasting 200 x 150 mm.
Fixed side glass panel LED lighting kit (including one additional I/O board).
Fine texture matte powder coat in any RAL.
SlimLane EP: Extension housing post, including orientation pictogram lighting (Entry and/or Exit direction).
SlimLane EPW : Wide Extension housing post, including orientation pictogram lighting (Entry and/or Exit direction).
Raised bases.
Floating ramp solution (without ground anchoring).
External support kit for reader integration on housing.
Reader integration within the side handrail behind tempered glass.
Biometric reader integration inside the EPW cabinet.
QR-code reader integration in housing.
Barcode Reader (QscanT Type) integration on Entry or Exit for EP or EPW unit
Reader Integration - Surface-mounted on the front of the end post.
High-frequency or dual-frequency contactless smart-card reader, compatible with Wiegand / OSDP.
Angled housing for elevator dispatch on EP or EPW.
Emergency opening push button (or key switch activated).
Additional AS1669 I/O board (8 digital inputs, 2 digital outputs, 3 relay outputs).
Laminated glass moving obstacles.
Laminated glass - Fixed side glass panel.
24 VDC external power supply.
Interconnect Cables 16' (5 m), 25' (7.7 m), 38' (11.5 m)
Ramps option (with Raised bases included).
Monitoring and control software (ASLink)

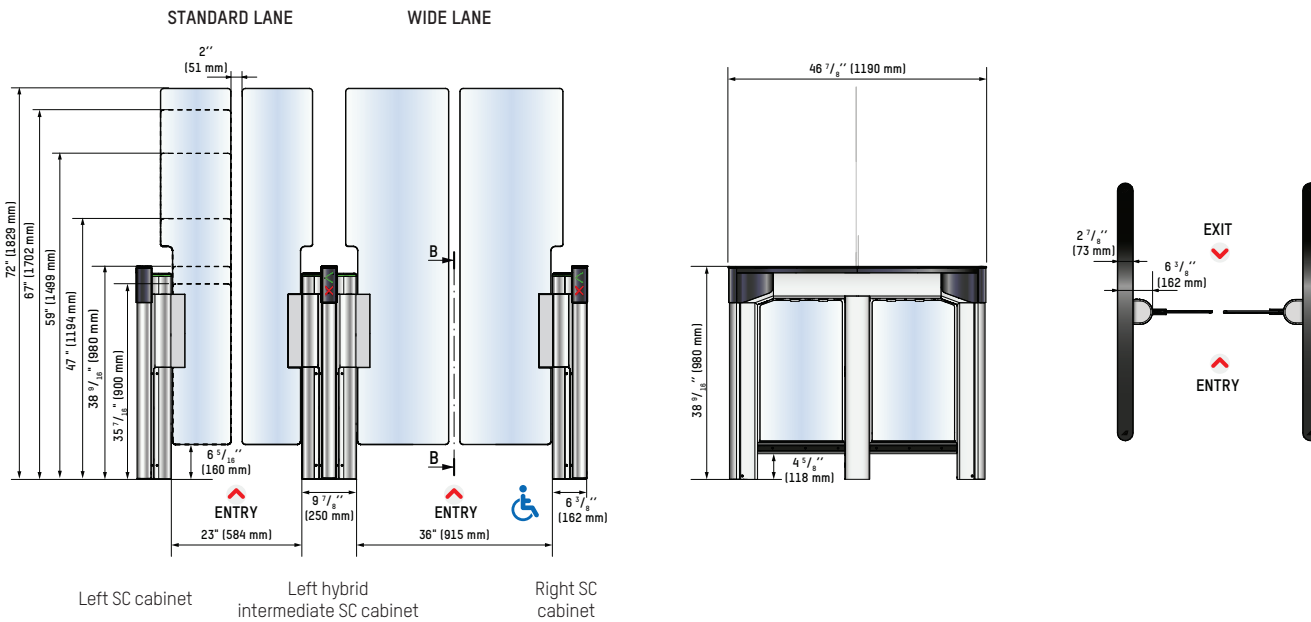
Note : For limitations on option combinations, please contact us.

OVERALL DIMENSIONS

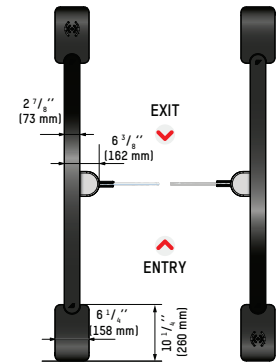
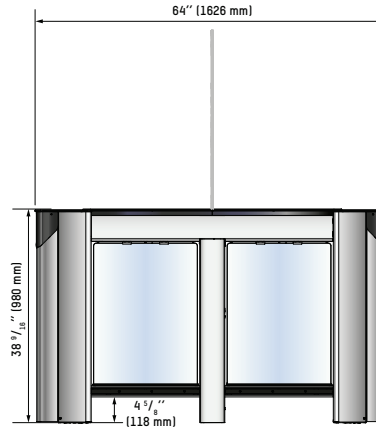
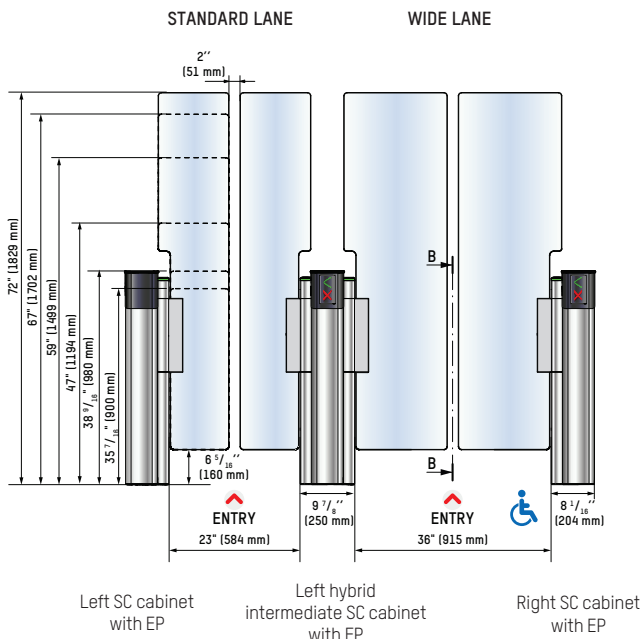
SlimLane EVO - Standard



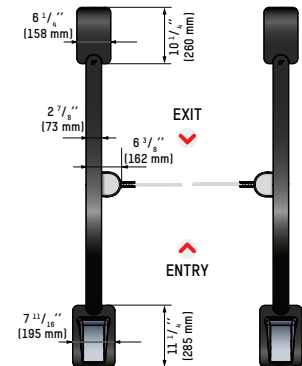
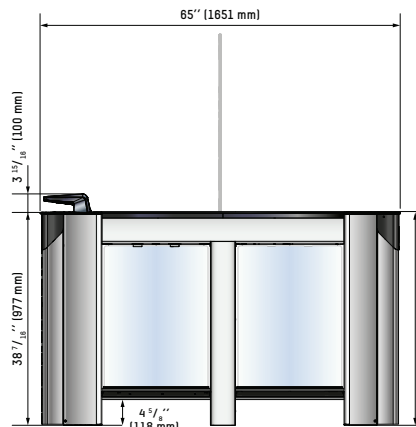
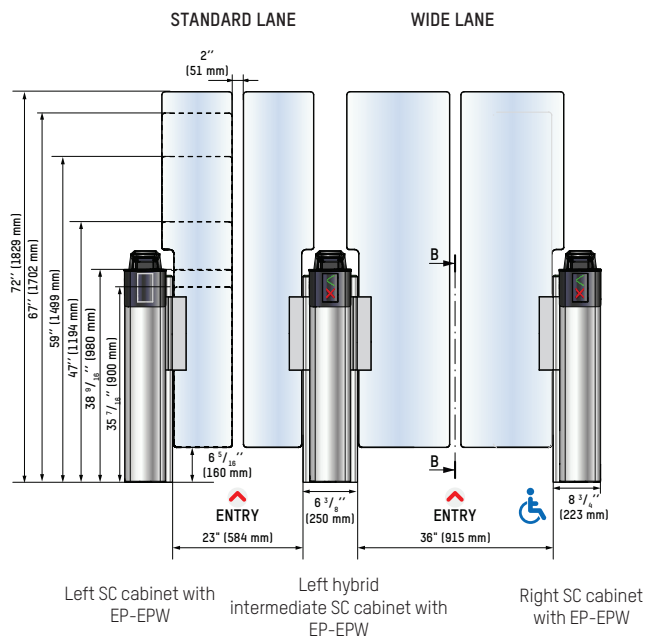
SlimLane EVO - SC (Short Cabinet)



SlimLane EVO - EP (Extended Post) (option)



SlimLane EV0 with EP (Extended Post) - EPW (Extended Post Wide) (option)



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