

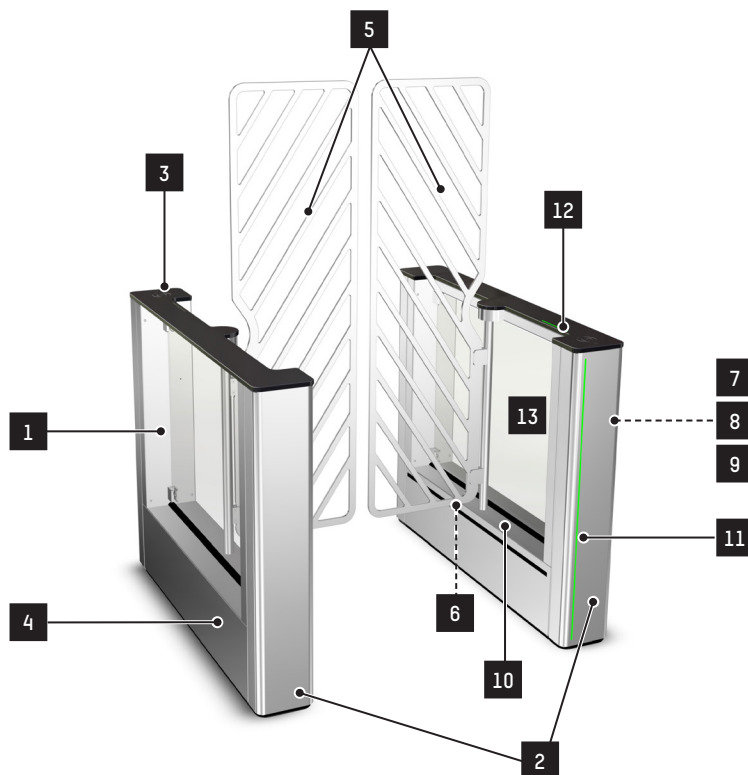
FirstLane PLUS

Technical datasheet

Rev. E

FirstLane™

AUTOMATIC
SYSTEMS



The **FirstLane Plus** swing door speed gate provides a **high bidirectional throughput** as well as **uncompromising safety and security**.

Thanks to its **modern and elegant design**, the **FirstLane Plus** is designed to integrate perfectly with any type of **exterior architecture**. Its high processing capacity and exclusive detection system ensures precise user tracking.

The **FirstLane Plus** products are modular and can be installed as a single or multiple lane configuration and combined with standard and wide passageways within the same configuration.

Its new dynamic lighting ensures a better user experience by offering more intuitive signage.



Version **FirstLane Plus** - LOW

DESCRIPTION

1. Robust and stable RoHS zinc-plated steel frame for enhanced corrosion resistance.
2. Front panels in brushed AISI 304L stainless steel, with integrated dynamic orientation lighting.
3. **For the high version:** Laminate top cover with RFID logo(s) and status light(s) for intuitive usage.
For the low version: Stainless steel top cover with reader screen(s) and status light(s) for intuitive usage.
4. Housing in brushed AISI 304L stainless steel.
5. Steel obstacles, $\frac{5}{16}$ in. (8 mm) thick, anti-corrosion treated and painted, swinging in the direction of user passage.
6. Electromechanical drive units, each consisting of:
 - A DC electronic commutation motor and helical drive gear.
 - A controller which provides progressive accelerations and decelerations of the obstacles for a smooth movement and enhanced user safety.
 - "Egress" standard operating mode: obstacles open in the direction of egress with a simple push.
 - Automatic opening in the egress direction in case of power failure.
7. Electronic logic control that ensures advanced passage flow management. A built-in Web server that can be accessed from any standard Web browser, providing a simple interface for configuring the gate's functional parameters, and launching complete diagnostics with maintenance tool.
This maintenance interface is common in many Automatic Systems products and greatly facilitates product maintenance.
8. Data transfer with the outside world, via the XML-RPC communication protocol over an Ethernet interface.
9. Data transfer via dry contacts: passage authorisation, passage data, fraud, technical defect, etc.
10. Proprietary DIRAS detection system, consisting of a high-density matrix of infrared transmitter/receiver photocell beams. It follows users' progression through the lane, as well as ensuring their safety during opening/closing of the obstacles.
The new detection algorithms guarantee top-class performance for detecting tailgating (even when people are very close to each other) and other types of fraud.
11. Wide dynamic orientation lighting indicating lane status and providing greater visibility ensuring an optimal throughput.
12. Dynamic status lights located near the reader notifies the user if they are authorized.
13. Side panels in $\frac{5}{16}$ in. (8 mm) thick clear tempered glass.
14. The electronic cards are varnished in order to resist ambient humidity (condensation).



STANDARD TECHNICAL CHARACTERISTICS (PER LANE)

Power supply	Single phase 110 VAC (5A)-240 VAC (3A) (+/- 10%) - 50/60 Hz + Ground. ¹ (+ 5A with heating device)
Power consumption	At rest: 40 W* In operation: 85 W* Maximum: 150 W* * + 390 W (maximum) with heating device
Motors (x2)	24 VDC - Output power 90 W
Min. opening/closing times	0.7 second (Depending on the size of the obstacles)
Ambient temperature during use	+14°F to +122°F (-10°C to +50°C)
Relative ambient humidity in operation	< 95%, without condensation
MCBF (Mean Cycles Between Failures)	5,000,000 cycles, in compliance with recommended maintenance
Sound level	55 dB measured at 3 feet from the unit
Wind resistance	Max. 62.13 miles/h (100 km/h)
Free passage width (L)	24 ³ / ₁₆ in. or 36 in. (615 or 915 mm)
IP Rating	IP44
	UL2593 / CSA - C22.2 no. 247-92 (R 2008) Certified - (FILE E197818)

¹ Not to be connected to a floating network or to a high-impedance earthed industrial distribution network.

		FIRSTLANE PLUS - HIGH	FIRSTLANE PLUS - LOW
Weight (without obstacle)	Right Unit	185.2 lb (84 kg)	222.7 lb (101 kg)
	Intermediate Unit	218.3 lb (99 kg)	255.7 lb (116 kg)
	Left Unit	176.4 lb (80 kg)	198.4 lb (90 kg)

		FIRSTLANE PLUS - HIGH	FIRSTLANE PLUS - LOW
AERO obstacle weight	Standard free passage - 24 ³ / ₁₆ in. (615 mm)	24.2 lb (11 kg)	11.7 lb (5.3 kg)
	Wide (ADA) free passage - 36 in. (915 mm)	32 lb (14.5 kg)	15.6 lb (7 kg)

WORK TO BE PROVIDED BY OTHERS (NOT SUPPLIED)

- Anchoring the equipment with the appropriate specific floor type hardware.
- Performing the electrical interconnections and connections to the power grid.
- Performing the connections to the access control systems.

Note: All work must be carried out based on the layout and interconnection diagrams supplied during the project.

PRECAUTIONS FOR USE

For security reasons, children (users smaller than 39" 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.

CONFIGURATIONS

STANDARD **FIRSTLANE PLUS**

	FIRSTLANE PLUS - HIGH	FIRSTLANE PLUS - LOW
Black laminate top cover with RFID logo(s) and status light(s) ² .	●	
Stainless steel top cover with reader screen(s) and status light(s) ² .		●
Free passage 24 ³ / ₁₆ in. (615 mm).	●	●
Dynamic status and orientation light(s).	●	●
Housing with fixed lateral obstacle.	●	●
"EGRESS" mode (allowing obstacles to be opened in the evacuation direction with a simple push).	●	●
Power buffer module to open obstacles in case power is lost.	●	●
IP44 for cold climates [+14 °F to +122 °F (-10 °C to +50 °C)].	●	●
Sound card + Speaker.	●	●

AERO OBSTACLES

Obstacles with a height of 35 ³ / ₄ in. (908 mm).	●	●
Obstacles with a height of 68 ⁷ / ₈ in. (1750 mm).	○	

● = standard configuration at no extra cost

○ = configuration available as an option at additional cost

OPTIONS

	FIRSTLANE PLUS - HIGH	FIRSTLANE PLUS - LOW
Wide obstacle [Height : 35 ³ / ₄ in., 68 ⁷ / ₈ in. (908 mm, 1750 mm)] ¹ .	○	○
Additional AS1612 input/output board.	○	○
QSCAN Mini barcode reader integration. ³	○	○
Heating for very cold climates [from -22 °F to +122 °F (-30 °C to +50 °C)].	○	○
Ramps / raised bases.	○	○
Top cover for free exit (without RFID logo on the secured side).	○	○
Smart & Slim control panel and ASLynk platform.	○	○
'Smart Touch' configurable interactive control panel.	○	○

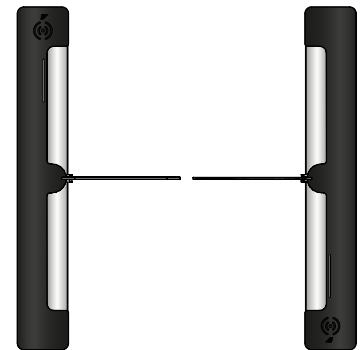
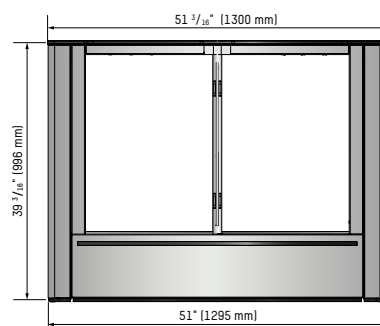
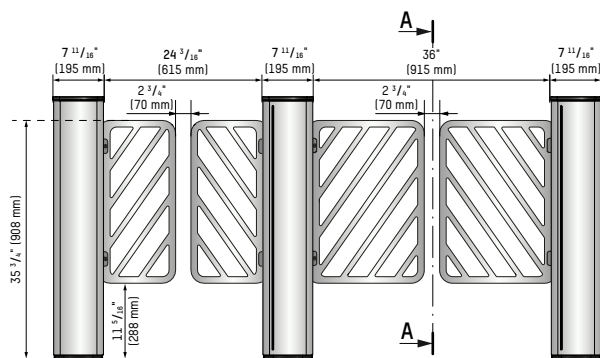
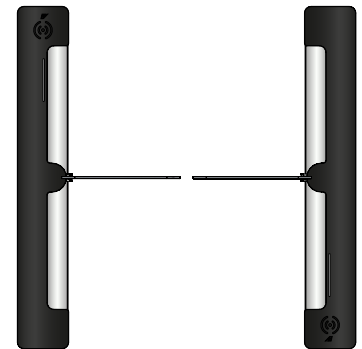
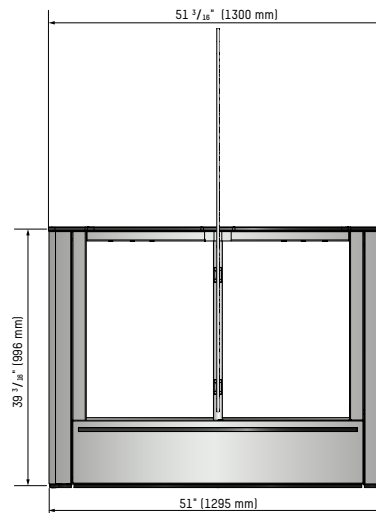
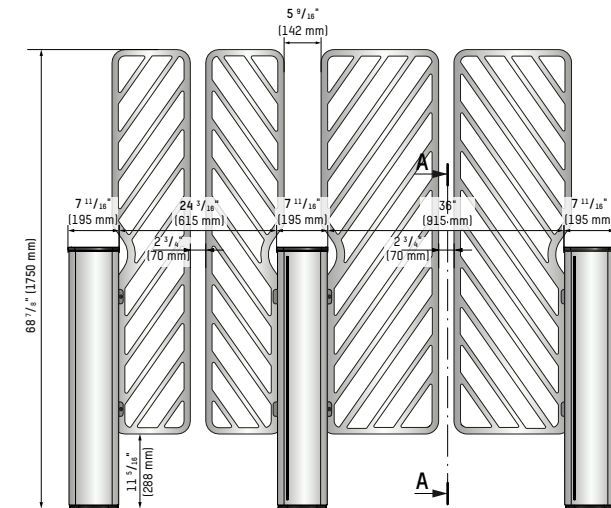
1 This option will be charged 2x for an intermediate housing; only once in other cases.

2 The number of RFID logo(s) engraved in the top cover (1 or 2) will be defined automatically by the configuration of the housing selected (1 if left or right end housing, 2 if left or right intermediate or hybrid housing)

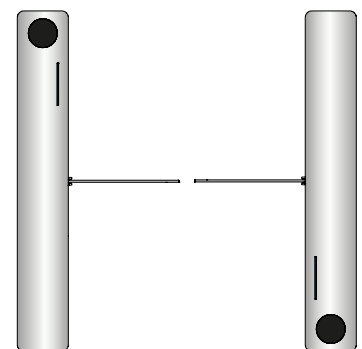
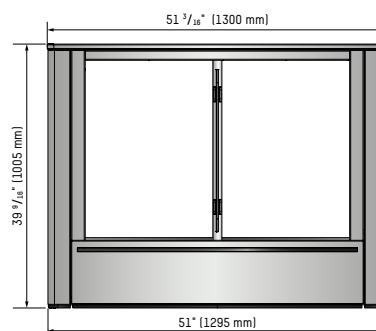
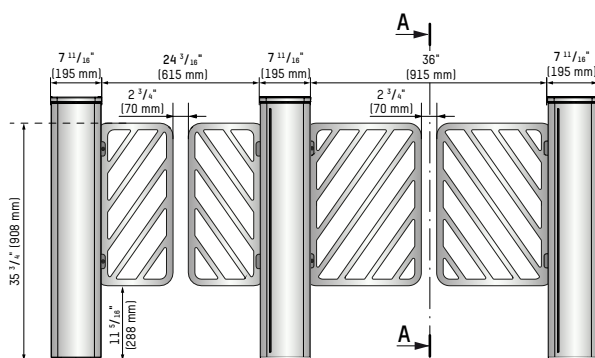
3 To be confirmed for outdoor use.

DIMENSIONS

FIRSTLANE PLUS - HIGH

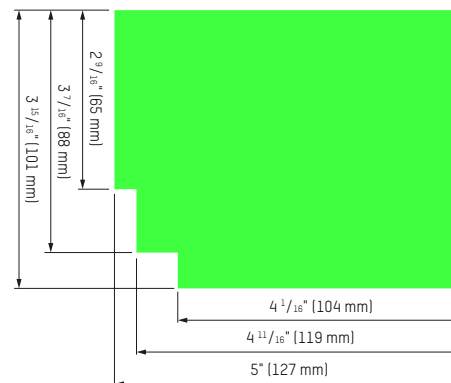
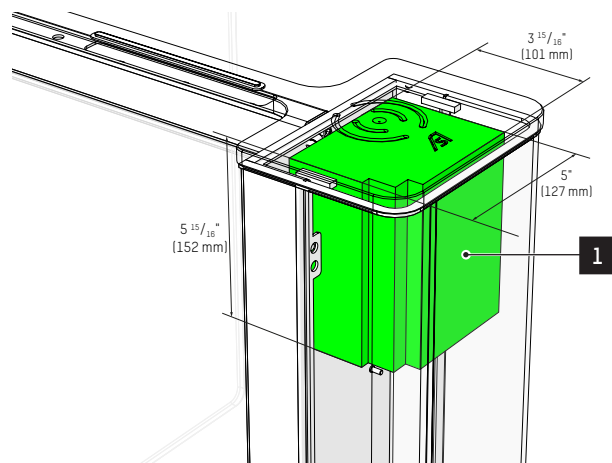


FIRSTLANE PLUS - LOW



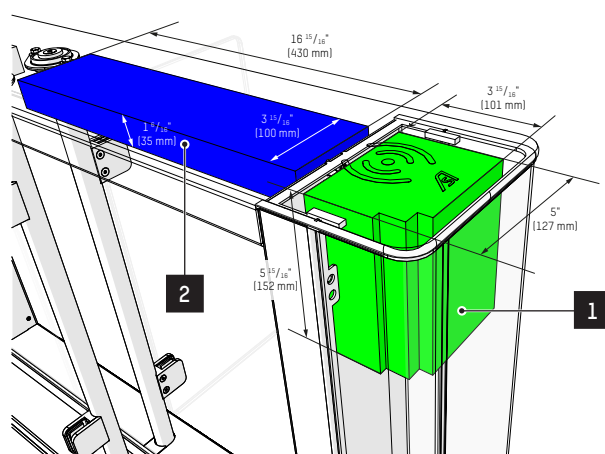
AVAILABLE SPACE FOR READER INTEGRATION

FIRSTLANE PLUS - HIGH



REF.	DESCRIPTION	DIMENSIONS L x W x H in. (mm)
1	Available space under top cover / top of front panel	3 ¹⁵ / ₁₆ x 5 x 5 ¹⁵ / ₁₆ in. (101 x 127 x 152 mm)

FIRSTLANE PLUS - LOW



REP.	DESCRIPTION	DIMENSIONS L x W x H in. (mm)
1	Available space under top cover / top of front panel	3 ¹⁵ / ₁₆ x 5 x 5 ¹⁵ / ₁₆ in. (101 x 127 x 152 mm)
2	Volume under top cover / top rail* *only for non-standard units	16 ¹⁵ / ₁₆ x 3 ¹⁵ / ₁₆ x 1 ⁶ / ₁₆ in. (430 x 100 x 35 mm)

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NAM-FirstLane PLUS-DS-EN-E