

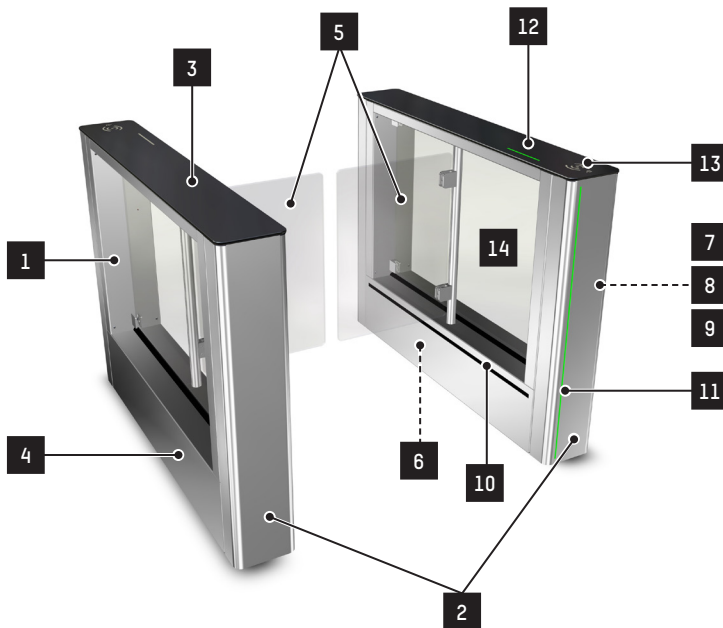
FirstLane S

Technical datasheet

Rev. 00 • Update 04/2024

AUTOMATIC
SYSTEMS

FI FirstLane™



The **FirstLane S** double swing door security entrance lane offers a **high bidirectional throughput** and **uncompromising security**.

With its **modern and elegant design**, the FirstLane S is designed to integrate perfectly into any architectural style. Equipped with high processing capacity and an exclusive detection system, the FirstLane S guarantees accurate user tracking and prevents any unauthorized use.

The FirstLane S is a modular product that can be installed as a single or a multi-lane array and can also be combined with standard lanes and wide lanes within the same array.

As an option, its new dynamic light allows a better user experience by offering a more intuitive information.



Version FirstLane S - HIGH

DESCRIPTION

1. Robust and stable RoHS zinc-plated steel frame for better corrosion resistance.
2. Front panels in brushed AISI 304L stainless steel, with optional integrated orientation light.
3. **For the low version:** Aesthetic glass top cover in 8mm thick monolithic tempered glass with black screen printing. The glass top cover is very resistant to scratches and allows for the integration of contactless readers and new dynamic lights without the need for cutting.
For the high version: Laminate top cover with RFID logo(s), with function light(s).
4. Housing elements in brushed AISI 304L stainless steel.
5. Clear-coloured, 10 mm thick tempered monolithic glass obstacles, swinging in the direction of user passage.
6. Electromechanical obstacle drive units, each consisting of:
 - A brushless 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.
7. Logic control board ensuring advanced traffic management. A built-in Web server accessible from any standard Web browser provides a simple interface for configuration of the gate's functional parameters and a complete diagnostics and maintenance tool. This maintenance interface is common to multiple 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 by 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 the users' progression through the lane and helps ensure their safety during opening/closing of the obstacles. The new detection algorithms offer best in class performance for detecting tailgating and other types of fraud.
11. Wide dynamic orientation light indicating lane status and providing greater visibility ensuring an optimal throughput (option).
12. Static function lighting, close to the reader integration zone, indicating user access authorisation. Also available as a dynamic option.
13. Easy integration of contactless readers 'STID ARCS-A/BT' (RFID, NFC) or 'MACE MM' (QR Code) under the glass top cover (optional).
14. 8 mm thick clear tempered glass side panels (optional).



STANDARD TECHNICAL CHARACTERISTICS (PER LANE)

Power supply	Single phase 110 VAC/ 240 VAC (5A) (+/- 10%) - 50/60 Hz + Ground. ¹ (+ 5A if heating option)
Consumption	Standby with brake deactivated : 26 W* Standby with brake activated : 72 W* Operating: 60 W* Maximum: 150 W* * + 390 W (maximum) with heating option
Motors (x2)	24 VDC - Output power 90 W
Min. opening/closing times	0.7 seconds ²
Number of available inputs/outputs	8 digital inputs, 6 digital outputs (+6 if dynamic lights), 3 relay outputs
Ambient operating temperature	+0° to +50°C
Relative ambient humidity	< 95%, without condensation
MCBF (Mean Cycles Between Failures)	5,000,000 cycles, in compliance with recommended maintenance
Sound level	50 dB to 1 m distance
Free passage (L)	600 or 900 mm
IP rating	IP40 (IP44 optional)
CE	Complies with European standards

		FIRSTLANE S - LOW	FIRSTLANE S- HIGH
Weight (without obstacles)	Right Housing	87 kg	84 kg
	Intermediate Housing	102 kg	99 kg
	Left Housing	85 kg	80 kg

			NARROW OBSTACLE	WIDE OBSTACLE
Glass obstacle weight	FirstLane - LOW	900 mm	4.6 kg	6.9 kg
	FirstLane - HIGH	1200 mm	6.7 kg	10.11 kg
		1500 mm	8.9 kg	13.5 kg
		1700 mm	10.4 kg	15.7 kg
		1800 mm	11.2 kg	16.8 kg

¹ Do not connect to an isolated ground network or a high impedance earthed industrial network.

² Depending on the size of the obstacles

WORKS TO BE PROVIDED BY THE CUSTOMER

- Floor mounting.
- Power supply.
- Wiring between lanes of a single array.
- Wiring to external peripheral equipment, if any.
- Integration of accessories.

Note: Follow the installation plan.

PRECAUTIONS FOR USE

For safety reasons, children must be supervised by an adult at all times when in the vicinity of the housing and when passing through the gate. When the gate is used by a child accompanied by an adult, the child must precede the accompanying adult.

CONFIGURATIONS

GLASS OBSTACLES

	FirstLane S - LOW	FirstLane S - HIGH
Obstacles with a height of 900mm	●	
Obstacles with a height of 1200mm		●
Obstacles with a height of 1500mm		○
Obstacles with a height of 1700mm		○
Obstacles with a height of 1800mm		○

- = standard configuration at no extra cost
- = configuration available as an option at additional cost

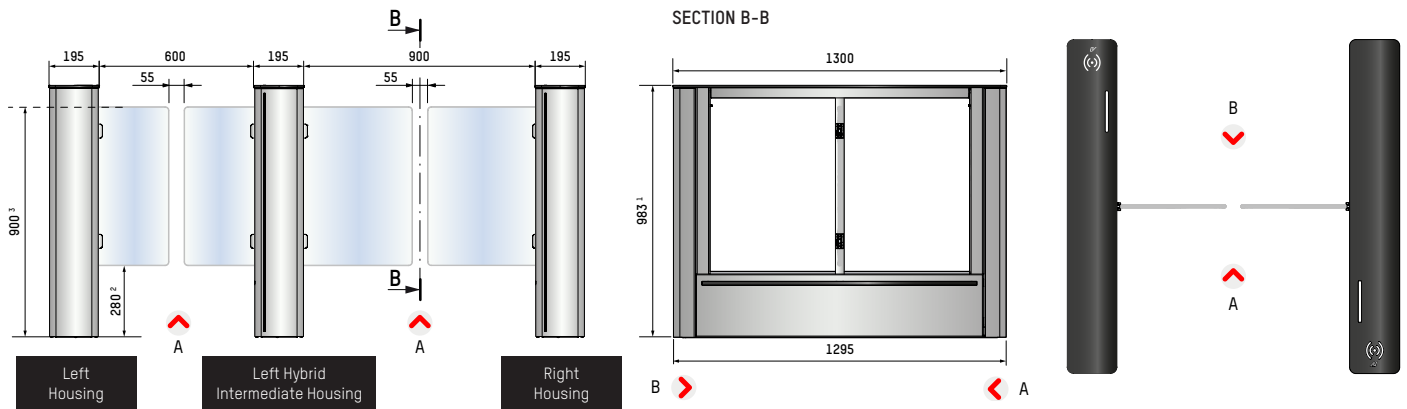
OPTIONS

	FirstLane S - LOW	FirstLane S - HIGH
Extra charge for wide lane 900mm low glass mobile obstacles 900mm (per housing side) ¹	○	
Extra charge for wide lane 900mm high glass mobile obstacles (1200mm, 1500mm, 1700mm, 1800mm) (per housing side) ¹		○
High glass mobile obstacles (1500mm, 1700mm or 1800mm) (per housing side) for narrow or wide lane ¹ Glass obstacle opening/closing movement could differ depending on its size		○
Left or right housing with brake (100 Nm)	○	○
Intermediate housing with brake (100 Nm)	○	○
Housing with brake + Mechanical Egress ¹	○	○
Housing with fixed lateral obstacle	○	○
Dynamic status and orientation light(s) ¹	○	○
Top cover in glass with RFID logo(s) & reading area (24x16mm ²) for QR reader, with status light(s)	○	
Top cover in stainless steel with reader screen(s) in screenprinted glass, with status light(s) ²	○	
Top cover in black laminate with RFID logo(s), with function light(s) ³	○	●
Top cover "free exit" with status light(s) (Top cover in glass, laminate or stainless steel)	○	○
End housing "anti-fraud" top cover in black laminate with RFID logo(s) & reading area (24x16mm ²) for QR reader, with status light(s)		○
Top cover in stainless steel sheet applied to a laminate support, with reader screen(s) in screen-printed glass, with status light(s) ²		○
IP44 for cold climates (-10°C to +50°C) ^{4 and 5}	○	○
Heating for very cold climates (-30°C to +50°C)	○	○
Escape route button as per EN 13637, on the front of the left or intermediate housing (B direction) ⁶	○	○
Support post with escape route button per EN 13637 norm ⁶	○	○
Additional varnished AS1612 I/O board (+8 digital inputs; + 5 relay outputs)	○	○
Sound card (varnished) + 1 Speaker	○	○
Battery to open the obstacles in the event of power failure	○	○
Smart & Slim control panel	○	○
Smart Touch configurable interactive control panel	○	○

- This option will be charged 2x in the case of an intermediate housing, only once in other cases.
- The number of glass screen(s) (1 or 2) will be defined automatically by the housing configuration selected (1 for left or right end housing, 2 for left or right intermediate or hybrid housing).
- 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).
- This option requires the choice of a stainless steel or laminate top cover.
- This option requires the selection of brake.
- Only in indoor use & via costing.

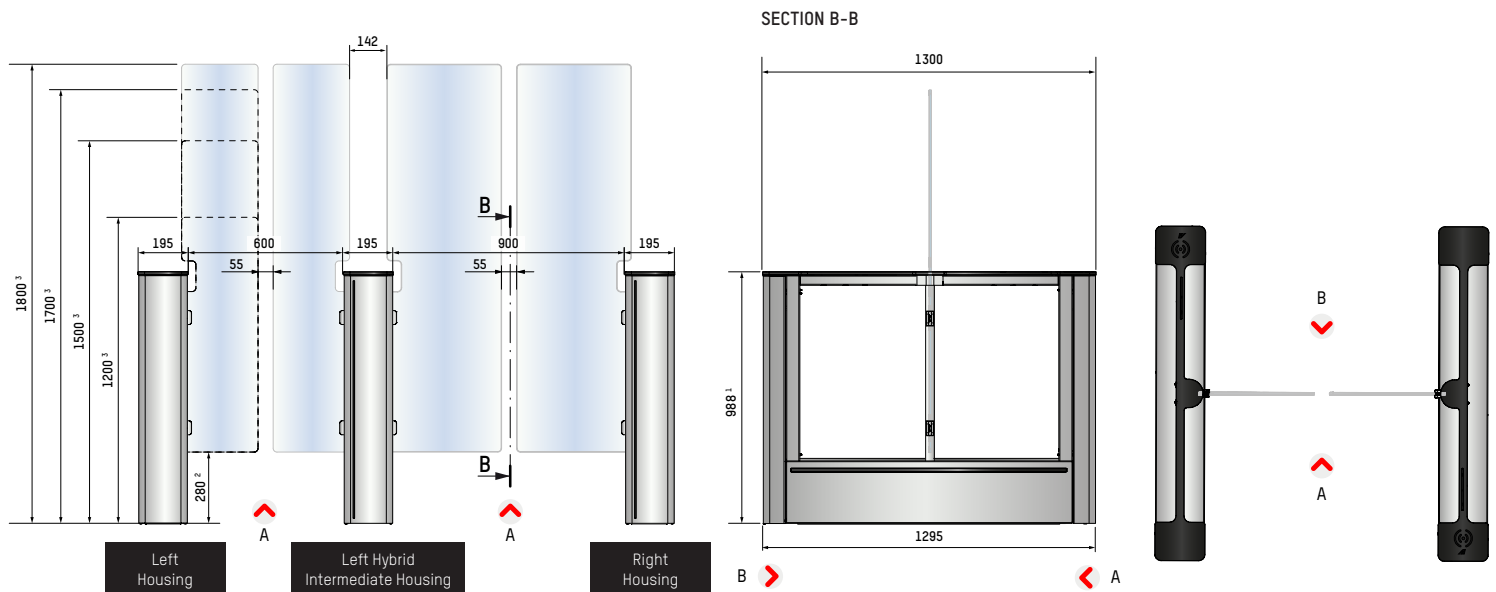
DIMENSIONS

FirstLane S - LOW



- 1 Height with glass top cover (STANDARD) : 983 mm.
Height with laminate top cover : 990 mm.
Height with stainless steel top cover : 997 mm.
Height with stainless steel top cover + IP44 option : 1005 mm.
- 2 Ground clearance from obstacles (STANDARD) : 280 mm.
Ground clearance from obstacles with IP44 option : 288 mm.
- 3 Height of the obstacle from the ground with IP 44 option : standard height + 8 mm.

FirstLane S - HIGH



- 1 Height with laminate top cover : 988 mm.
Height with top cover in stainless steel sheet applied to a laminate support : 990 mm
Height with laminate top cover + IP44 option : 996 mm.
- 2 Ground clearance from obstacles (STANDARD) : 280 mm.
Ground clearance from obstacles with IP44 option : 288 mm.
- 3 Height of the obstacle from the ground with IP 44 option : standard height + 8 mm.

MAXIMUM VOLUMES AVAILABLE FOR READER INTEGRATION

FirstLane S - LOW

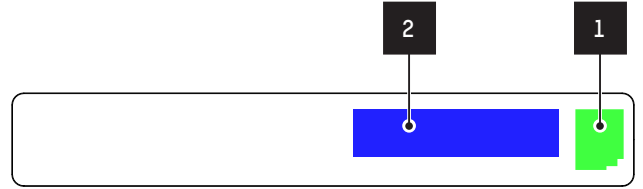
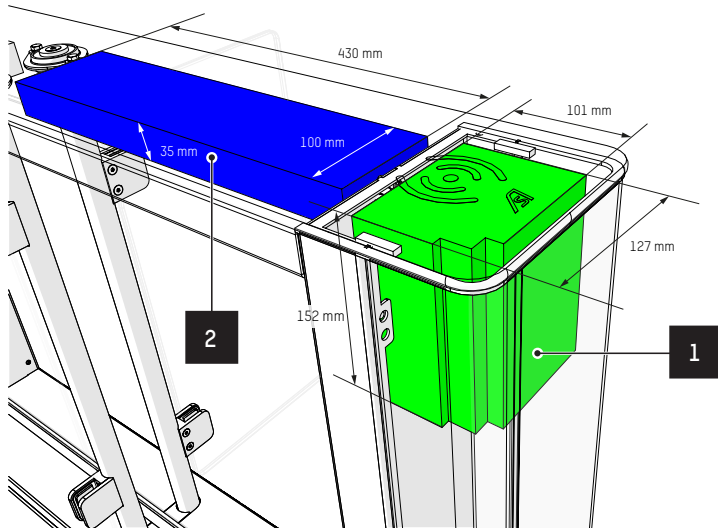


ILLUSTRATION	DESCRIPTION	DIMENSIONS L x W x H (mm)
1	Volume under top cover / top of front panel	101 x 127 x 152
2	Volume under top cover / top rail* *only for non-standard housings	430 x 100 x 35

FirstLane S - HIGH

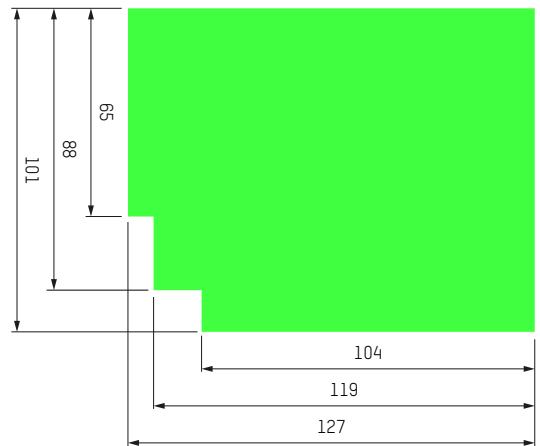
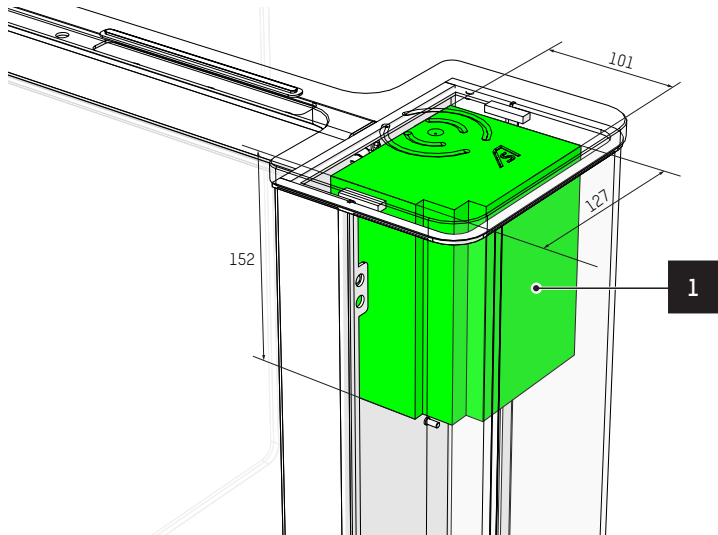


ILLUSTRATION	DESCRIPTION	DIMENSIONS L x W x H (mm)
1	Volume under top cover / top of front panel	101 x 127 x 152

 **Headquarters**
 5, Avenue Mercator,
 1300 Wavre - Belgium
 sales.asgroup@automatic-systems.com
 +32.(0)10.23.02.11
 www.automatic-systems.com



FirstLane S-FT-EN-00