FirstLane

Datasheet

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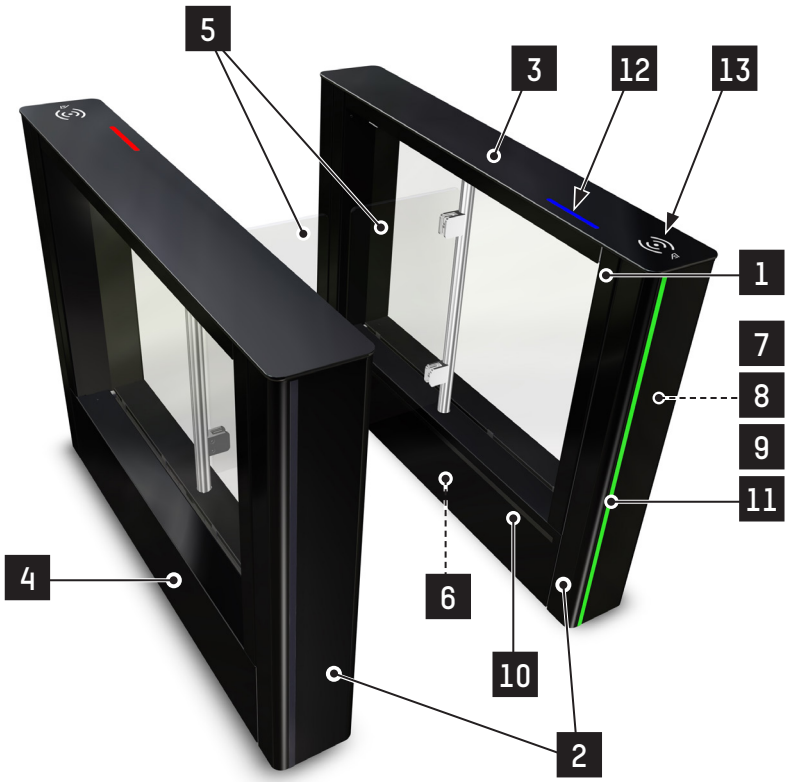
AUTOMATIC SYSTEMS

FirstLane

FirstLane™

reddot winner 2021



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

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

The **FirstLane** 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 battery.

Its **new dynamic light** provides a better user experience by offering much more intuitive information.

DESCRIPTION

1. Sturdy and stable steel frame with RoHS anti-corrosion zinc plating treatment. Visible parts of the frame are in steel finely structured matt powder coat in RAL9005.
2. Front panels in extruded aluminium painted black RAL9005, with integrated dynamic orientation light.
3. Aesthetic top shelf in 8mm thick monolithic tempered glass with black screen printing. The glass shelf is very resistant to scratches and allows the integration of contactless readers and lights without the need for cutting.
4. Access pannels (to internal elements) in steel finely structured matt powder coat in RAL9005.
5. Clear, 10 mm thick tempered monolithic glass obstacles, swinging in the direction of user passage.
6. Electromechanical drive units each consisting of :
   - A brushless DC permanent magnet motor with rugged, flat gearbox.
   - A controller providing progressive accelerations and decelerations of the obstacle, for smooth movement and enhanced user safety.
7. Logic control board ensuring advanced traffic management. An embedded Web server, accessible by a simple web browser, offering an interface for the configuration of functional gate parameters as well as a complete diagnostic and maintenance tool.
   The maintenance interface is common to several Automatic Systems product easing the maintenance of the products.
   The **FirstLane** can be managed by the "Smart & Slim" monitoring panel and/or the "Smart Touch" configurable interactive control panel.
8. Transfer of information from XML-RPC protocol through an Ethernet interface.
9. Transfer of information by dry contacts: passage authorization, passage information, fraud, equipment failure ...
10. Proprietary DIRAS detection system, consisting of a high-density matrix of infrared transmitter/receiver photocells beams. It follows users progression through the gate as well as ensuring their safety during opening/closing of the obstacles. Novel detection algorithms guarantee top-of-class performances for detection of tail gating, close tail gating and crossing frauds.
11. Wide dynamic orientation light indicating the lane status. It allows good visibility from afar to ensure a large flow of traffic.
12. Dynamic status light, close to the reader integration area, indicating the user's pass authorization.
13. Easy integration of contactless readers 'STID ARCS-A/BT' (RFID, NFC) or 'MACE MM' (QR Code) under the glass shelf.

STANDARD TECHNICAL CHARACTERISTICS (PER LANE)

Power supply	Single phase 110 VAC (5 A)-240 VAC (3 A) (+/- 10%) - 50/60 Hz + Ground. [1]
Consumption	Standby: 20 W Operating: 35 W Maximum: 80 W
Motors (x2)	24 VDC – nominal output power 86 W.
Min opening or closing times	0,7 sec. (Depending on the access control system reactivity and the speed of users)
Ambient operating temperature	+0° à +50°C.
Relative ambient humidity	< 95%, without condensation.
MCBF (Mean cycles between failures)	**5.000.000** cycles, in compliance with recommended maintenance
Sound level	55 dB to 1m distance.

	STANDARD LANE	WIDE LANE
Free passageway (L)	600 mm	900 mm
Weight: Right cabinet	104 kg	106 kg
Intermediate cabinet	122 kg	127 kg
Left cabinet	103 kg	105 kg
IP rating	IP40	
CE	Complies with European standards	

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

OPTIONS

1. Extra charge for wide lane 900mm low glass mobile obstacles 900mm (per gate side).
2. Left or right housing with brake. [2]
3. Intermediate housing with brake. [2]
4. Housing with fixed lateral glazings.
5. Top cover in glass with RFID logo(s) & reading area (24x16mm²) for QR reader, with dynamic status light(s).
6. Top cover in black laminate with RFID logo(s), with dynamic status light(s).
7. Escape route button per EN 13637 norm, on the front of the left or intermediate leg (B direction).
8. Support post with escape route button per EN 13637 norm.
9. "Smart & Slim" monitoring panel.
10. "Smart Touch" configurable interactive control panel.

Note: For restrictions on options, please contact us.

[2] Electromagnetic toothed brake guaranteeing a locking of obstacles in case of a forced opening attempt.

WORKS TO BE PROVIDED BY THE CUSTOMER

- Bolting the unit to the floor.
- Power supply.
- Cabling between gates in the same array.
- Cabling to any external peripherals.
- Integration of any accessories.

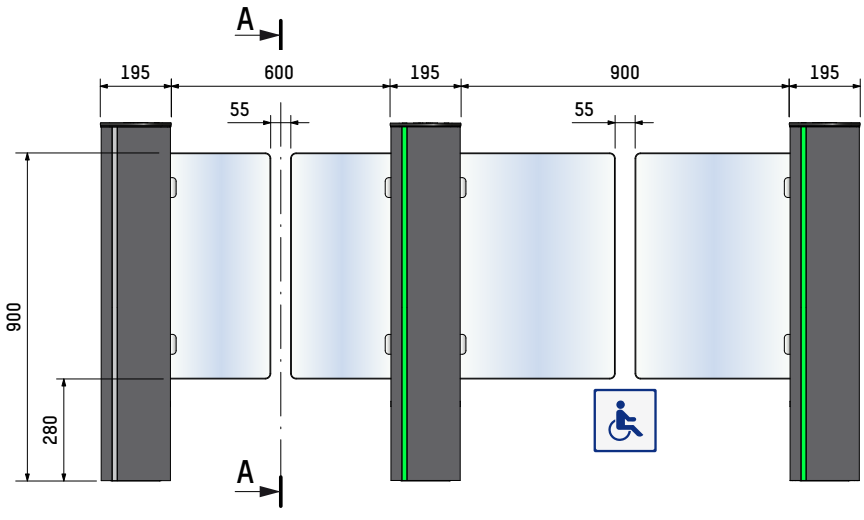
Note: Follow the installation plan.

PRECAUTIONS FOR USE

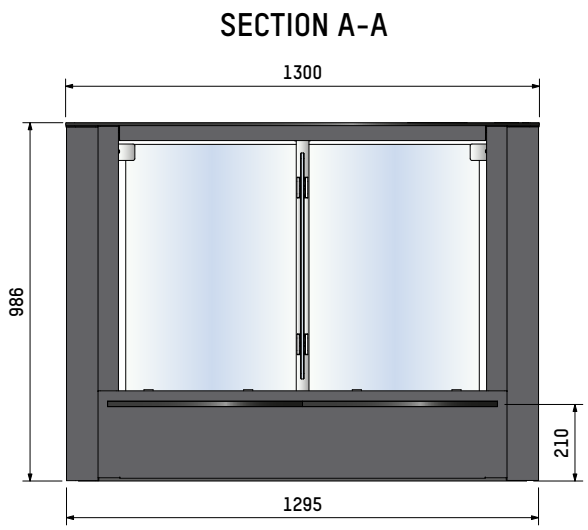
For security reasons, children must be supervised by an adult at all times when in the vicinity of the unit and during passage through the lane.

A child must absolutely precede the accompanying adult when lane passage is required.

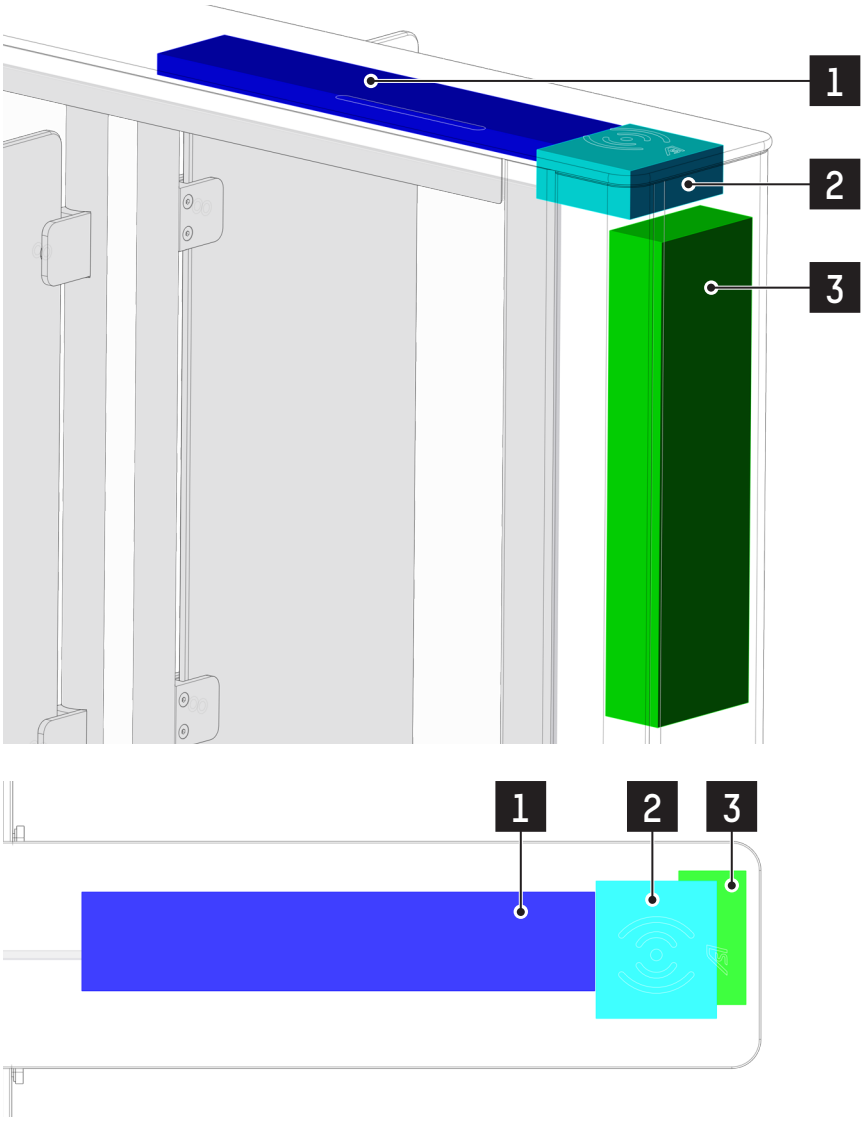
STANDARD DIMENSIONS (mm)



Standard lane Wide lane



MAXIMUM VOLUMES AVAILABLE FOR READER INTEGRATION



REP.	DESCRIPTION	DIMENSIONS L x l x h (mm)
1	Volume under shelf / top rail	442 x 118 x 42
2	Volume under shelf / top of front panel	101 x 142 x 50,5
3	Maximum volume available in the front panel	73.2 x 120,7 x 429

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