AUTOMATIC SYSTEMS

SECURITY ENTRANCE LANES WITH AUTOMATIC SYSTEMS' INTEGRATED SCREENING SOLUTION WITH PEOPLE COUNTING CAPABILITIES

SafeFlow ⫽SlimLane

UNIQUE SELLING POINTS OF SAFEFLOW

- ✔ Contactless solution
- ✔ Heavy duty device (screen MTBF : 50 000 hours) in solid metal casing
- ✔ Fast processing real PC
- ✔ Made in Europe
- ✔ German technology
- ✔ Enhanced mask wearing detection (including masks of colour and with patterns) and skin surface temperature screening
- ✔ Gate-device dedicated connectivity, with separate alarms for absence of mask / abnormal skin surface temperature and device's status (operational or out of order)

- ✔ Crowd management via SafeFlow SmartTouch
- ✔ Remote supervision (alarms, status, settings) via SafeFlow SmartTouch
- ✔ Intuitive LED light on top of the device giving the status of the request (green = accepted, red = denied)
- ✔ Customizable userfriendly interface (text and sound)
- ✔ HDMI for countdown display
- ✔ Emergency exit EN13637 option
- ✔ Communication via Ethernet and Dry contact, in standard
- ✔ Embedded quality speaker
- ✔ FCC15

The security entrance lanes **SlimLane** offer a high bidirectional throughput and uncompromising securit:

- single swing door:
  SlimLane 944SC and SlimLane 945SC Twin.
- double swing door:
  SlimLane 940SC and SlimLane 950SC.

With its transparent, elegant design and minimal footprint, this SlimLane are designed to integrate perfectly into any architectural style.

Equipped with high processing capacity and an exclusive detection system, the SlimLane SC guarantee accurate user tracking and prevents any unauthorised use.

The SlimLanes SC are modular products that can be installed as a single or a multi-lane array and can also be combined with different types of passage within the same lane model.

Note that only the SlimLane 940SC, 944SC, 945SC Twin et 950SC models in End Post (EP) version can accept the SafeFlow.

SLIMLANE PRODUCT DESCRIPTION

1. Handrail frame: steel beam with RoHS anti-corrosion zinc plating treatment and stainless steel posts. The handrail includes photoelectric cells for user detection and the logic control board.

2. Self-supporting kinematic steel frame with RoHS anti-corrosion zinc plating treatment. The frame contains the electromechanical drive assembly for the swinging obstacle and the electronic control boards.

3. Brushed #4 AISI 304L stainless steel housing.

4. Brushed #4 AISI 304L stainless steel panels fastened to the frame for access to the internal components.

5. Clear, 10 mm thick tempered monolithic glass obstacles, swinging in the direction of user passage.

6. Brushed #4 AISI 304L stainless steel top cover.

7. Electromechanical drive units each consisting of:
   - A DC permanent magnet motor with epicyclic gearbox.
   - A controller providing progressive accelerations and decelerations of the obstacle, for smooth movement and enhanced user safety.
   - A geared electromagnetic brake for locking of obstacles in the event of forced entry attempts.
   - A sensor controlling the obstacle position.
   - SECURI-SAFE standard operating mode: electromechanical lock of the obstacles in case of forced entry attempt in any passage directions.

8. Logic control board, equipped with ARM technology and the Linux operating system, 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.

9. Transfer of information from XML-RPC protocol through an Ethernet or USB interface, and dry contacts: passage authorisation, passage information, reader locking, fraud, equipment failure, …

10. Orientation and function pictograms indicating gate and passage status to the user.

11. 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.

12. Finishing plate for post.

STANDARD TECHNICAL SPECIFICATIONS (PER LANE)

	SlimLane 940SC	SlimLane 9440SC	SlimLane 945SC TWIN	SlimLane 950SC
Passageway (L)	600 mm 575 mm < L < 650 mm (min/max)	550 mm 485 mm < L < 560 mm (min/max)	2 x 550 mm 2 x 485 mm < L < 560 mm (min/max)	900 mm 875 mm < L < 950 mm (min/max)
Min opening or closing times	0,7 s (Depending on the access control system reactivity and the speed of users)	0,9 s (Depending on the access control system reactivity and the speed of users)	0,9 s (Depending on the access control system reactivity and the speed of users)	0,9 s (Depending on the access control system reactivity and the speed of users)
Weight	62 kg (per left/right unit) 91 kg (per intermediate unit)	64 kg (kinematic unit) 40 kg (handrail)	95 kg (kinematic unit) 40 kg (handrail)	64 kg (per left/right unit) 95 kg (per intermediate unit)
Power supply	Single phase 110-240 VAC (+/-10%) - 5A - 50/60 Hz + Ground			
Power consumption	Standby: 50 W Cycle : 170 W Maximum: 300 W			
Motors (x2)	24 VDC – nominal output power 93 W			
Ambient operating Temperature	0 to +50°C			
Relative humidity	< 95%, without condensation			
MCBF	5,000,000 mean cycles between failures, with recommended maintenance.*			
Noise level	50 dB			
Protection	IP40			
CE	Conforms to European standards			

* Maintenance operations are detailed in the technical manual.

OPTIONS SLIMLANE 940SC, 944SC, 945SC TWIN AND 950SC

1. "EGRESS" operating mode: obstacles open in the direction of egress by a simple push.

2. Battery backup for automatic opening in case of power failure and obstacle locking mechanism in egress direction.

3. Mobile glass obstacles – height of 1200, 1500 or 1700 mm.

4. End post without bottom flange.

5. Glass side wall with enhanced electronic protection and "trolley" protection cell kit (A and B directions).

6. Glass side wall.

7. Lighting kit for fixed side wall.

8. Personalized logo on glass – sandblast effect sticker.

9. Black top cover.

10. Stainless steel top cover with code-bar reader.

11. Paint in: RAL9005, RAL5008, RAL6014, RAL7003, RAL7016, RAL9010.

12. Extension housing (EP), including orientation pictogram (A direction or/ and B direction).

13. Extended extension housing (EP), including orientation pictogram (A direction or/and B direction).

14. Angled housing on passage for extension housing.

15. Reader integration kit for extension housing or angled housing.

16. Hinged access door for extension housing.

17. Badge or token bin and hinged access door for extension housing.

18. Integrated token acceptor with receptacle and hinged door.

19. Ø 28 or Ø 30 tokens.

20. Independent support post with standard reader integration kit.

21. External support kit for reader integration on housing.

22. Fixing frame for streamlined passageway.

23. "Smart & Slim" monitoring panel.

24. "Smart Touch" configurable interactive control panel.

25. Low or high fixed handrail.

26. Raised top.

27. Raised top ready for one barcode reader IBC QSCANT (one direction) or 2 readers (2 directions).

28. Cable draw wire for onsite installation.

Note: *For restrictions on options, refer to the price list.*

ADDITIONAL OPTIONS FOR LES SLIMLANE 940SC, 944SC AND 950SC

1. Fixed external obstacle.

2. Fixings for fixed external obstacle.

3. Escape route button per EN 13637 norm, on the front of the right endpost (B direction).

Note: *For restrictions on options, refer to the price list.*

WORK TO BE PROVIDED BY THE CUSTOME

- Bolting the unit to the floor.

- Power supply.

- Cabling between gates in the same array.

- Cabling to any external peripherals.

- Integration of any accessories.

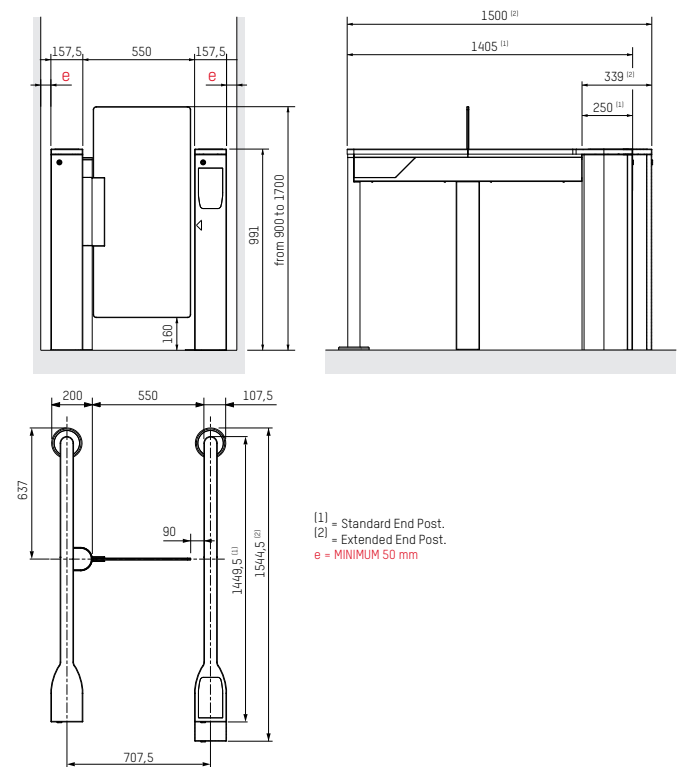**Note:** *Comply with the installation drawing.*

PRECAUTIONS FOR USE

- For security reasons, children (user smaller than 1 m tall for mobile obstacles of 900 mm height and smaller than 1.3 m for mobile obstacles from 1200 mm to 1700 mm height) 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.

- If habitual use by children is anticipated, Automatic Systems recommends the addition of all options required to optimize the level of protection.
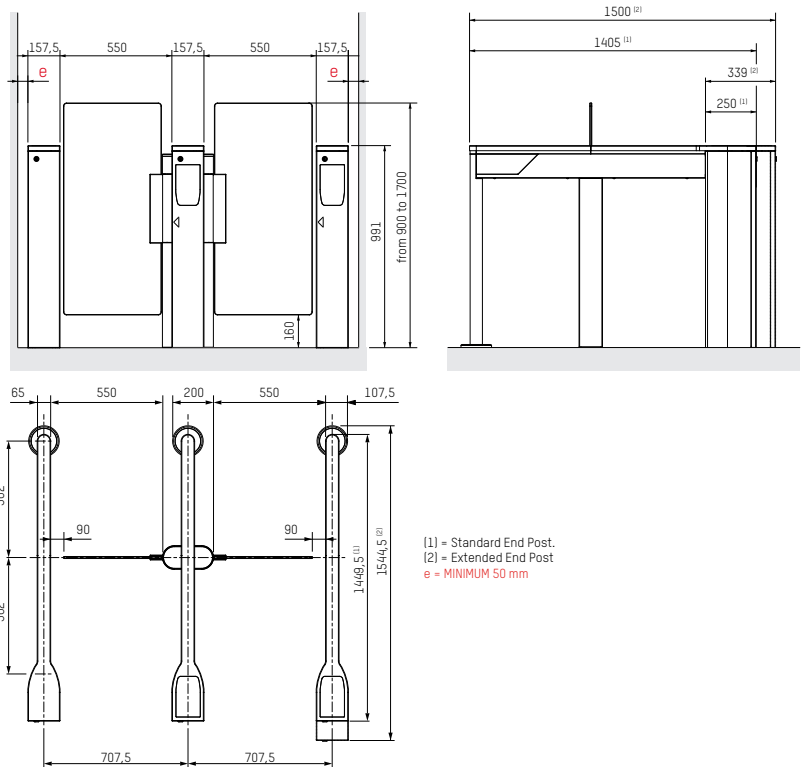
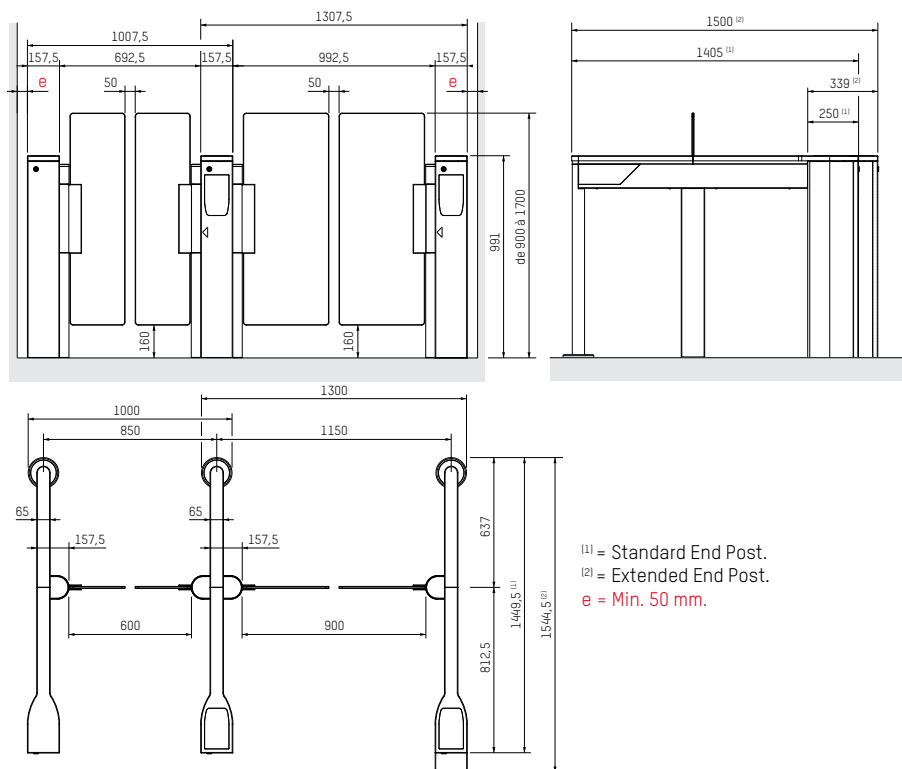## STANDARD DIMENSIONS FOR SLIMLANE 940SC WITH EP (OPTION)

[1] = Standard End Post.
[2] = Extended End Post.
e = Min. 50 mm.
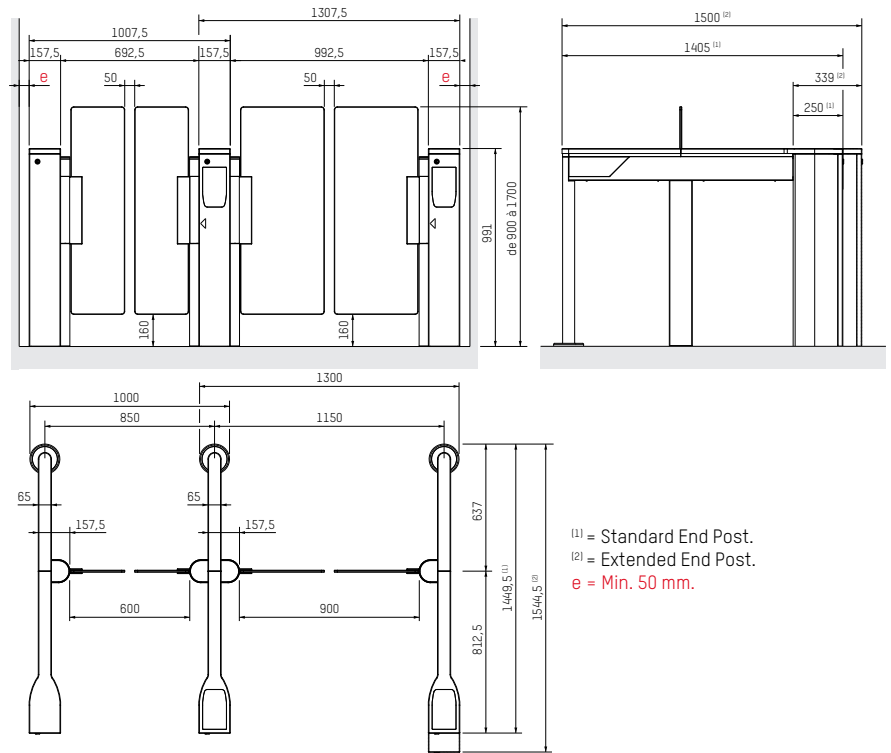
STANDARD DIMENSIONS FOR SLIMLANE 944SC WITH EP (OPTION)

[1] = Standard End Post.
[2] = Extended End Post.
e = MINIMUM 50 mm

STANDARD DIMENSIONS FOR SLIMLANE 945SC TWIN WITH EP (OPTION)

(1) = Standard End Post.
(2) = Extended End Post
e = MINIMUM 50 mm

STANDARD DIMENSIONS FOR SLIMLANE 950SC WITH EP (OPTION)

[1] = Standard End Post.
[2] = Extended End Post.
e = Min. 50 mm.

SAFEFLOW FEATURES

The **SafeFlow** is a "Made in Europe", proprietary solution that provides key tools to enhance and automate screening for mask detection and skin surface temperature, combining state of the art technologies. The SafeFLow can also help control the amount of people within a designated area by keeping track of the quantity of passages.

Key elements are at the core of the solution:

1. Skin Surface Temperature

The thermal sensor integrated into the solution is based on infrared technology, and is powered by a high performance processor. Its detection range starts at 50cm and the precision of the measurement is 0.5°C, without "Blackbody" calibration.

The detection, performed without any contact between the user and the device, eliminates the contamination risk by physical contact. It is also a comfortable method to check skin temperature because it is non-invasive.

By verifying each individual's temperature and denying access to those with a skin temperature above the threshold, the solution prevents their entrance into the facility.

2. Face Mask Presence Detection

The precision camera backed by the high performance processor embarking artificial intelligence allows for a fast analysis of the presence or absence of the mask on the individual's mouth and nose.

Access is denied if the person does not comply with the mask-wearing obligation.

3. Crowd Management & Maximum person presence allowed management

Thanks to the SafeFlow SmartTouch monitoring control panel, the maximum persons presence allowed into the premises management is possible. The client, depending in his constraints, can set the maximum number of persons allowed.

Features added by the SmartTouch and the SafeFlow solution are the counting but also the countdown. Each person passing the gate, in entry or exit, is treated as an additional person inside the premises or one person less.

The ultimate purpose it serves is to ensure a real-time and effective counting to guarantee that the maximum number of person allowed inside the premises is respected.

4. Interface for the user and the manager

In order to offer the smoothest user experience, the device of the SafeFlow solution offers:

Locally:

- A seamlessly integrated 8 inches LCD colour screen.
- For the person using the gate, on the device itself: text message combined with sound and light signaling. Text message as well as voice message can be customized. LED light above the device indicates the request's acceptance (green) or rejection (red), as well as the stand-by mode (white).
- For users waiting in the entrance lobby: HMDI output device (SafeFlow SmartTouch option required) allows connection to any compatible screen of the client to display the number of people still allowed to enter and then indicate, with a stop sign, when full

capacity in the premises is reached. Information is given in real time, reflecting entrance-exit of people through the gate(s).

Remotely, on the supervisors's SafeFlow SmartTouch (optional) control panel:

- Thank to the Ethernet protocole, the skin surface temperature and mask screening alarms are available separately. Alarms related to fraud attempts, real time counting and the maximum number of people still allowed or the status of the STOP signal at the entrance are also available. Ethernet connectivity between the device and the logic board of the gate allows a permanent status detection. In case of failure or vandalism to the camera, it is instantly notified.
- The standard SmartTouch features.

5. EN13637

Safety is at the core of EN13637 norm. Automatic Systems pioneers in offering the EN13637 certified solution (optional) for emergency exits.

Several locations that require flow management will also be the only emergency exit. The only way to comply with the European Norms applicable is to go EN13637 certified solution (optional).

6. Privacy

Data gathered during the screening is not linked to any identification data base and is not stored. Data temporarily utilized are only used to grant access (or deny it), at the time it is taken at the gate.

STANDARD OPERATION

Once installed, the device is fully automatic, the user faces the access corridor with a SafeFlow.

The system recognises the user's face, checks whetheer he or she is wearing a mask, takes the temperature measurement and announces:
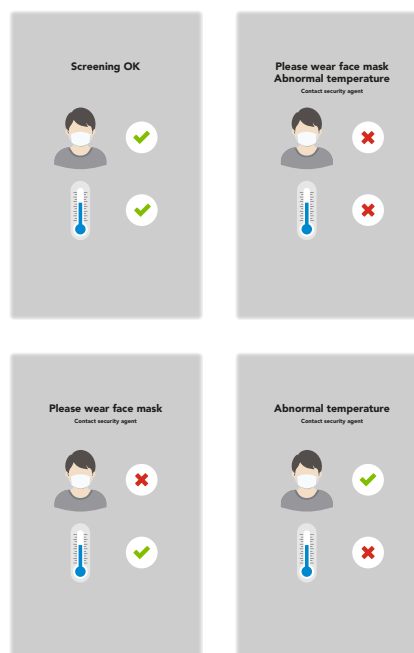
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