



TRIPOD TURNSTILES WITH AUTOMATIC SYSTEMS' INTEGRATED SCREENING SOLUTION WITH PEOPLE COUNTING CAPABILITIES

SafeFlow TriLane

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



TriLane tripod turnstiles are designed for dissuasive and economical access control and allow the fixing of control equipment such as: proximity scanners, bar code scanners, facial recognition cameras, etc.

Their mechanisms, of robust and reliable design, exist in various configurations covering all most likely encountered cases in terms of pedestrian access control.

The TriLane mechanism includes, as an option, an anti-panic device that automatically releases the tripod arm in the event of a power failure. The unobstructed access then allows uninterrupted passage for users. The arm must be reset manually or by means of the optional motorisation when the power supply is restored.

TriLane turnstiles can be installed indoors or outdoors, alone or in battery. It can be combined with an AccessLane gate to generate a passageway for people with reduced mobility.



TRILANE PRODUCT DESCRIPTION

1. Self-supporting painted steel body (RAL9005).
2. Front panel in painted steel, locked by 2 locks for access to the electronic and connection terminals
3. Removable top cover, in stainless steel locked with a key, to access the tripod mechanism.
4. Tripod mechanism: the locking of the tripod rotation is ensured by electromagnets and locking cams. Depending on the mode selected, an anti-return device prevents reverse rotation. (Unidirectional control as standard and bidirectional control as option)
5. Arm in stainless steel AISI 304.
6. Electronic control logic AS1635.

STANDARD TECHNICAL SPECIFICATIONS

Power supply	100 - 230V single phase, 50/60 Hz
Control circuit	24V DC
Consumption	Standby mode < 15 W Duty cycle < 55 W Max < 85 W
Ambient operating temperature	from -10° to + 50° C
Ambient relative humidity in operation	< 90%, without condensation
Net weight	46 kg
Flow	20 passages/minute
MCBF (Mean Cycles Between Failures)	5.000.000 cycles when respecting recommended maintenance
Protection	IP44
CE	EC compliant

WORKING MODES

The TriLane turnstile can operate in 5 different modes for each passage direction:

1. Access permanently free.
2. Access permanently mechanically locked.
3. Access mechanically locked with automatic unlocking device to allow free passage in case of power failure. (Free-rotation).
4. Electrically controlled access.
5. Access electrically controlled with automatic unlocking device to give free passage in case of power failure. (Free-rotation).



The standard configuration of the TriLane is A5 - B1.

ANTI CORROSION TREATMENT

All internal parts are treated by zinc coating and passivation.

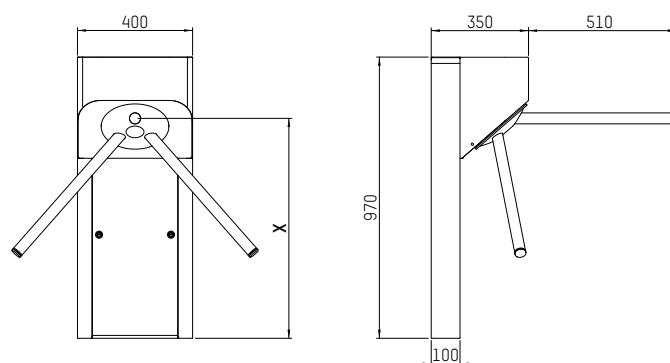
WORK TO BE PROVIDED BY THE CUSTOMER

- Power supply.
- Connecting electrical wiring to the control units.
- Potential masonry and fixing work (see installation drawing).

OPTIONS

1. Dropping arm.
2. Arm length of 550 mm.
3. Bidirectional passage.
4. Function pictogram (2 directions A & B).
5. Function pictogram + kit for reader integration (2 directions A & B).
6. Full stainless steel AISI 304L body.
7. Full stainless steel AISI 316L body.
8. Network connectivity (IP).
9. Paint in: RAL5008, RAL6014, RAL7003, RAL7016, RAL9010 (only for the steel parts).
10. Thermostated heating (for operation until -20°C).
11. Motorization with movement assistance & with rearming of the dropping arm.

STANDARD DIMENSIONS (MM)



Arm height	X
Dropping arm	735
Standard arm	740

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: HDMI 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.

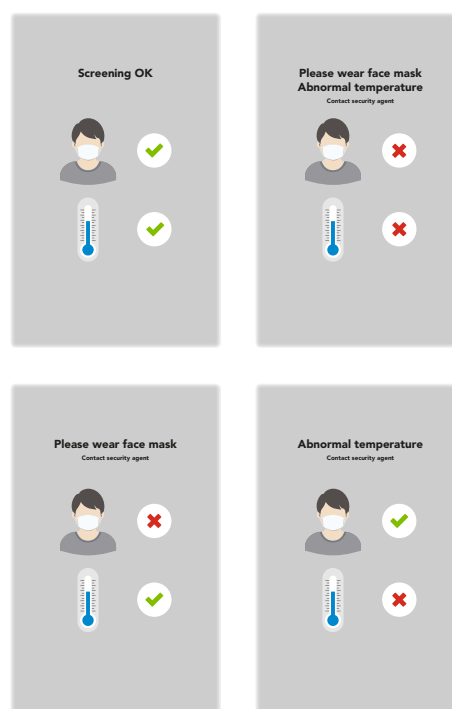
5. Privacy

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 whether he or she is wearing a mask, takes the temperature measurement and announces:



Headquarters

Avenue Mercator, 5
1300 Wavre - Belgium

helpdesk.as@automatic-systems.com

+32.(0)10.23.02.11

www.automatic-systems.com

