Access control and safety systems

manusa
intelligent access

Open
to the future

Keeping a firm commitment to excellence lead us to develop products that are 100% Manusa. We guarantee that they meet the highest quality standards, both in Spain and in our branches in Portugal, Brazil and China. As well as in the rest of the world, where we work with our exclusive suppliers, trained in our own facilities. Our aim: to be open to the world, always maintaining utmost attention and service demanded by our customers. Wherever that may be.

Open to Leadership

The Manusa Group, created more than 50 years ago, has grown to become a leading company in the creation, design and development of all types of intelligent access. Thanks to our determined commitment to innovation and technology, we put our expertise to work in installations found in every corner of the globe. We accommodate the latest market trends and open doors to the future, getting ever closer to you.

Open to excellence

We maintain the highest level of excellence throughout the development of each project, from its beginnings until its subsequent maintenance. We only use the highest-quality materials during the manufacture of our access points, subjecting them to the highest controls. To guarantee perfect operation and absolute peace of mind for our customers.

Open to You

More than 20,000 access points designed, manufactured, installed and maintained each year by our expert team of professionals in over 90 countries, guaranteeing convenience for millions of people. Because our guiding principal is the development of access points and services with drive and integrity, so we can adapt at any moment to changing times and the real needs of people. In order to continue being a trusted partner.

Aimed at connecting

At Manusa we are working every day on achieving the full satisfaction of our customers. Our commitment is to innovate, maintaining a vocation of service to others and providing everything required.

We develop safety solutions and have the best partners to respond to all the solutions, from identifying user needs to integrating the most suitable systems, including installation and after-sales.

Contents

Access control systems

Quality

Our access control equipment is made using top quality materials and is subject to the strictest controls to guarantee excellent and safe operations for people and for its installation.

Design

The extensive customisation of the equipment and its compatibility with any validation system make our systems an ideal option in any project that involves the installation of access control systems.

Service

Since the very beginning, we have been firmly committed to innovation and technology as a way of offering our customers the very best products adapted to the market and to their requirements. The leading infrastructure of the Manusa Group enables us to offer top-level technical support.

Speed gate with sliding panels

Offices Industry Retail Special

Speed Gate with sliding panels have been especially designed to allow people fast, safe and controlled access to facilities of all types.

They are made up of an elegant unit that serves as a support for the concealable glass panels, the safety photocells, the access control readers, and Manusa's exclusive system for opening doors with complete safety.

Manusa's combination of design and technology has led to a strong, function, elegant, highly flexible and silent access system that can be integrated into any architectural project. Its modules can be combined to form one or several passageways of a standard width or a special PRM width.

Technical specifications

The Manusa speed gate with sliding panels have been designed using in-house technology to ensure maximum functionality, offering kinematic features that are unique in the sector.

MOTOR GROUP ELECTRICAL SPECIFICATIONS	
Power supply	230V ±10% 50 Hz
Consumption	265W (per opening)
Operating temperature	-15ºC to 50ºC

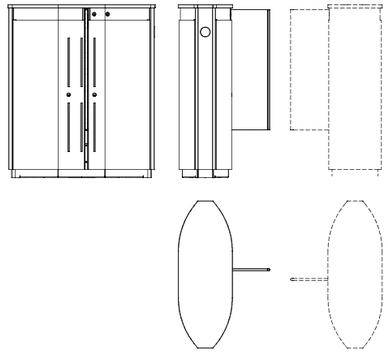
DIMENSIONS	600 Opening - PAR	900 Opening - PRM
Unit width	325 mm	475 mm
Clear width	600 mm	900 mm
Glass height	1040 or 1700 mm	1040 or 1700 mm
Unit height	1070 mm	1070 mm

MECHANICAL CHARACTERISTICS	600 Opening - PAR	900 Opening - PRM
Adjustable opening time	0.6 to 1.5 s	1 to 1.5 s
Adjustable closing time	0.6 to 1.5 s	1 to 1.5 s

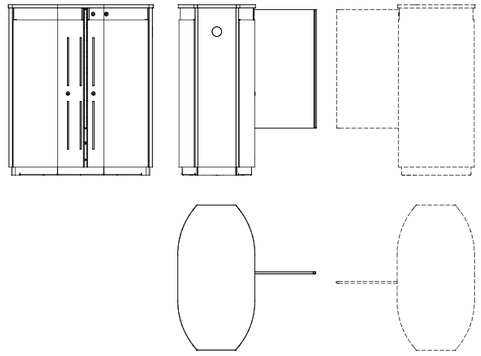
OTHER CHARACTERISTICS	
Throughput rate per unit	40 people / min

Drawings

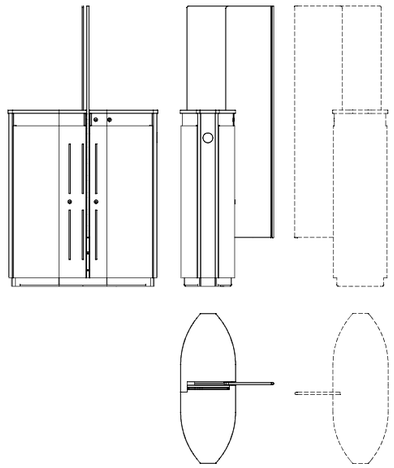
PAR - 1400 PANELS



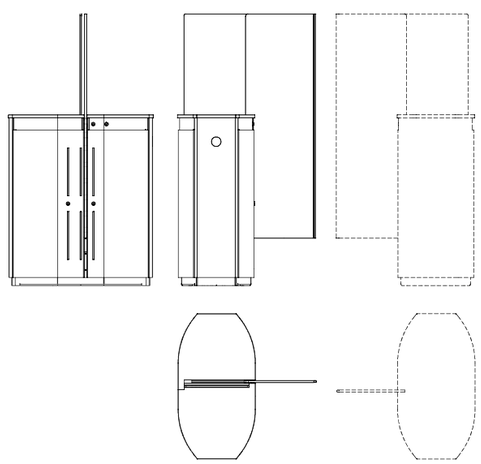
PRM - 1400 PANELS



PAR - 1700 PANELS



PMR - 1700 PANELS



Number of speed gate increases depending on the flow of users.

Normal width or PRM width for persons with reduced mobility.

Can be integrated into different validation systems.

Pleasant, distinctive design.

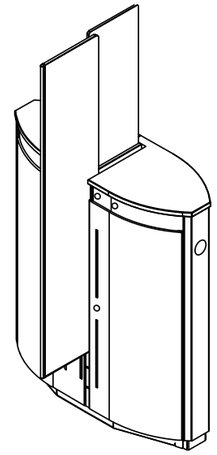
Technical information and finishes

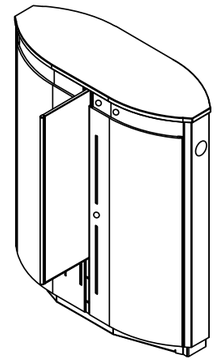
Speed gate with sliding panels

The Manusa speed gate with sliding panels are designed to form one or several passageways. Their width can be adapted to a standard width or the special PRM width for persons with reduced mobility or with difficulties passing through, and the length of the module is 900 mm.

Their elegant exterior design particularly stands out. The unit is formed by an AISI 304 or AISI 316 stainless steel structure and by a customisable top surface in lacquered MDF in the RAL colour of one's choice or Silestone synthetic stone. The speed gate with sliding panels are also made of 12 mm high-resistance tempered glass and can optionally be silk screened.

They stand out for their capacity to adapt to any architectural project. Its modular system means that it can be integrated into all the validation or identification technologies in the market, and it can also be incorporated into existing safety or access control systems to guarantee maximum functionality: biometrics, fingerprints, facial recognition, RFID cards, and others. With a traffic frequency capacity of 40 people/min, it has a complete detection system to prevent people from being trapped, a panic break-out system in the event of an emergency, and intuitive pictograms to indicate the direction of access to users.





Speed gate with two-way swing panels

Offices Industry Retail Special

The speed gate with two-way swing panels have been especially designed to provide a high level of safety and ease of use.

An innovative access control system in which safety, user comfort, and minimalistic design come first. They consist of an elegant unit that supports the glass swing panels that open according to the direction of traffic, and can be managed by any access control system.

The speed gate with swing panels are combined to form passageways of a standard width or a special PRM width for persons with reduced mobility or special needs. An acoustic signal to indicate unauthorised access can be fitted as optional.

Technical specifications

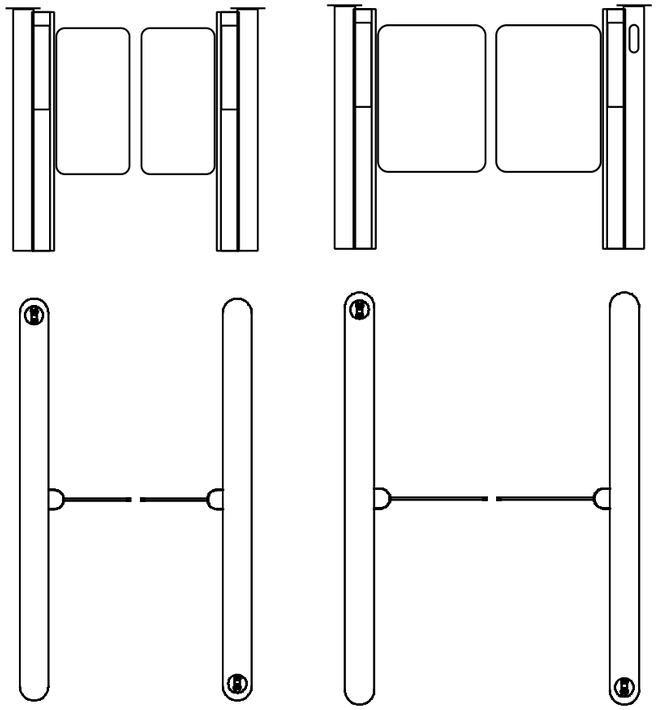
The speed gate with two-way swing panels have been designed using sophisticated technology and high-quality materials, making them suitable for a wide range of applications.

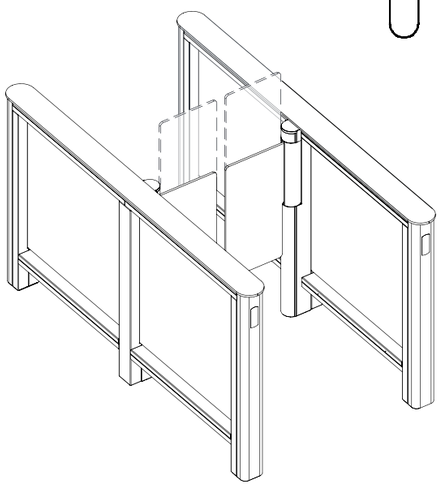
MOTOR GROUP ELECTRICAL SPECIFICATIONS	
Power supply	24V ± 2.4 VDC
Consumption	160W (per opening)
Operating temperature	1ºC to 50ºC

DIMENSIONS	650 Opening - PAR	900 Opening - PRM
Unit width	1050 or 1300 mm	1050 or 1300 mm
Clear width	650 mm	900 mm
Glass height	915 or 1300 mm	915 mm
Unit height	1010 mm	1010 mm

OTHER CHARACTERISTICS	
Throughput rate per unit	60 people / min
IP rating	IP41

Drawings





Can be integrated into different validation systems.

Modular with different configurations available.

Panic break-out system and two glass panel heights possible.

Compatibility with a wide range of accessories.

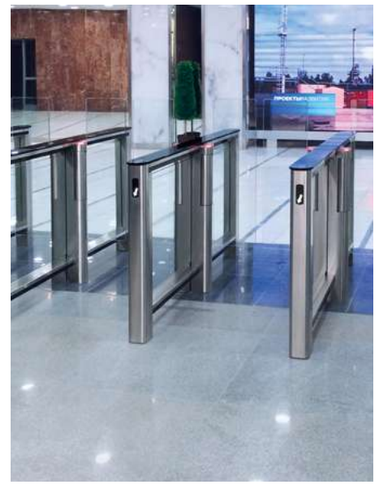
Technical information and finishes

Speed gate with two-way swing panels

The speed gate with two-way swing panels are combined to form passageways of a standard width or a special PRM width for persons with reduced mobility or special needs.

Two-way and motorised, they operate silently and manage the traffic of a high circulation of people.
The speed gate with swing panels are also a very safe option thanks to the fact that the access is supervised by photocell barriers to detect intruders.
They can also be externally connected and can be operated independently using the remote control panel or as part of an access control and safety system.

Their side structure has a stainless steel finish, the top surface can be made of tempered glass, and they have a wide range of available accessories. The RFID system can be integrated underneath the top surface, and a barcode reader or dropbox can be fitted as optional.



Speed gate with one-way swing panels

Transport Airport

Speed gate with one-way swing panels have been designed for fast, problem-free safety control.

Speed gate with one-way swing panels are the safest solution for controlling access to areas with limited or restricted access or where strict control measures are required. Ideal for control points at airports and sea ports, it is an intelligent solution to improve the effectiveness and experience of passengers during entry and exit, such as boarding areas.

The design of the speed gate with one-way swing doors allows for the integration of access control by others and of biometric systems in line with the required specifications. The flow of users is guaranteed by switches, light information, and combined obstacles to ensure only one passenger can pass at a time.

Technical specifications

Manusa's speed gate with one-way swing panels have been designed using top-quality materials and the best technology.

SAFETY AND PROTECTION CHARACTERISTICS

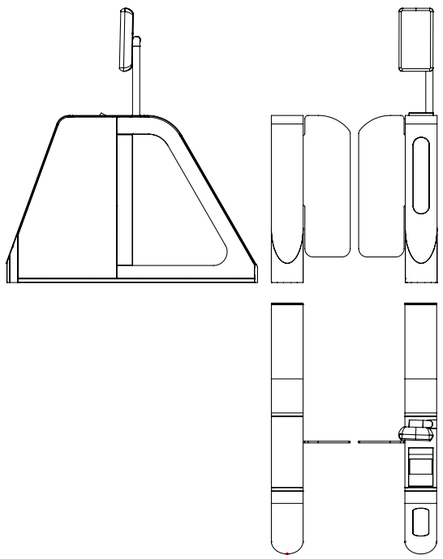
Number of switches per corridor	14 (airlock: X)
Individual passage detection	Yes
Luggage detection in corridor	Yes
Intrusion detection, opposite direction	Yes
Emergency entrance (fire alarm)	Yes
Opening with luggage / trolley	Yes
Communication interface	RS485; and Ethernet converter

DIMENSIONS

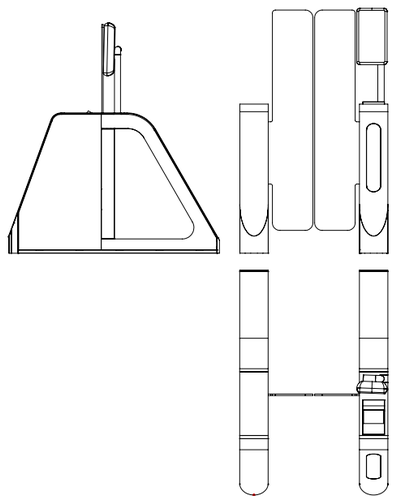
Post height	982 mm
Barrier height	Medium safety: 982 mm
	Maximum safety: 1600 mm
Post length	1477 mm
Post width	187 mm
Thickness of the moving glass panels	10 mm - tempered glass

Drawings

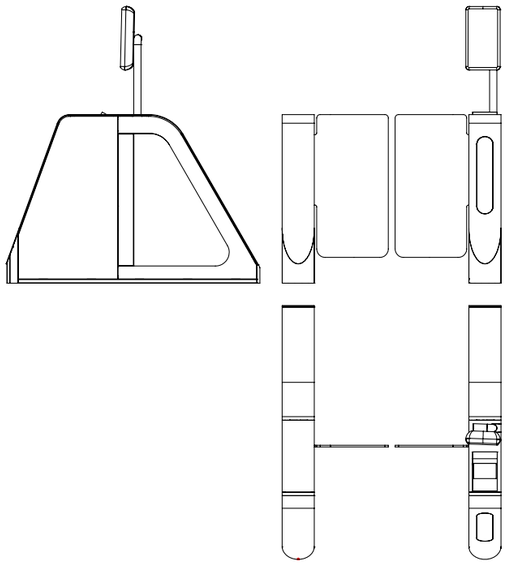
600 OPENING - LOW GLASS



600 OPENING - HIGH GLASS



900 OPENING - LOW GLASS



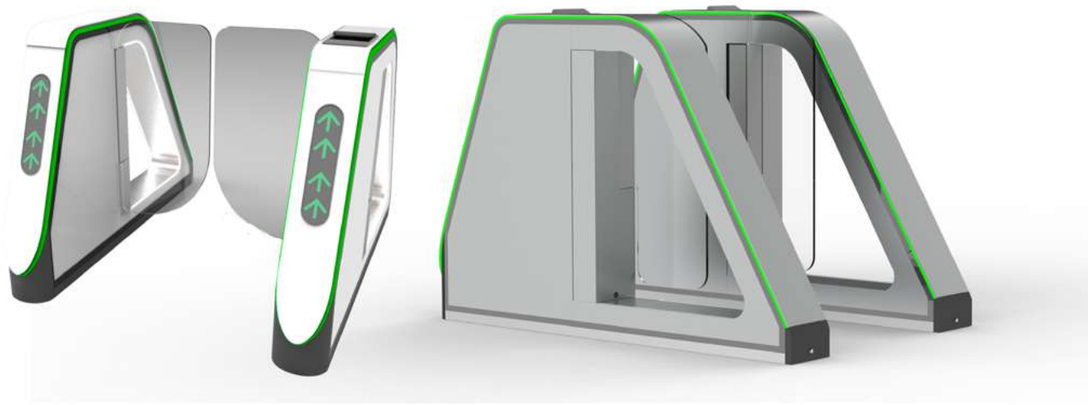
Technical information and finishes

Speed gate with one-way swing panels

The modules of the speed gate with one-way swing panels stand out for their safety, efficiency and appearance. They are made of stainless steel, polycarbonate and glass.
This is a versatile, intuitive and user-friendly solution that can also be easily and feasibly integrated into other access control systems or information systems.

The speed gate with one-way swing panels can register users and provide personalised permissions depending on the type of access or frequency required. They can be configured with different types of register and validation level, from selfies to video-selfie identification systems with configurable thresholds.

It is an ideal solution to guarantee the highest safety standards, combining biometric identity verification and the checks from the surveillance lists and risk assessment databases to offer real, complete feedback. The switches also recognise throughput with luggage, making sure it remains open until the luggage has been withdrawn.



Turnstiles

Offices Industry Retail Special

Turnstiles are the most classic and safest way to protect certain areas of restricted access.

Access control turnstiles are the ideal solution for use on entrances, avoiding the use of additional barriers. They can be used in shopping centres, as well as official or private centres. Because they are compatible with any validation system in the market (biometrics, fingerprints, RFID cards, facial recognition), they can be fully integrated into any type of architectural project.

They are available in different turnstile models: one that consists of a free-standing single-post turnstile with different finishes, in steel or stainless steel, and another formed by a compact double-post turnstile, also available in different finishes.

Technical specifications

Manusa turnstiles offer a reliable, convenient and inexpensive solution with the best technology.

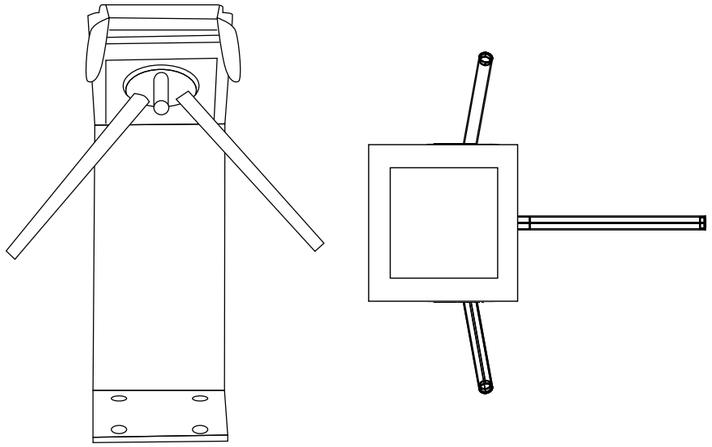
MOTOR GROUP ELECTRICAL SPECIFICATIONS	
Power supply	12V
Consumption	from 8.5W to 72W *
Operating temperature	-20ºC to 55ºC

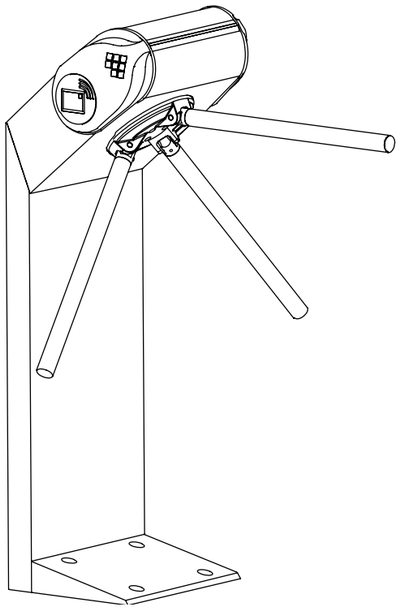
DIMENSIONS	Stainless steel post	Steel post
Unit width	750 mm	777 mm
Clear width (Bar length)	510 mm	445 mm
Unit height	1016 mm	1084 mm

OTHER CHARACTERISTICS	
Throughput rate per unit	30 people/min
IP rating	IP44

* Depending on model

Drawings





- Inexpensive solution without jeopardising safety.
- Differently designed models for each type of project.
- Compatibility with a wide range of accessories.
- Can be integrated into different validation systems.

Technical information and finishes

Turnstiles

Free-standing turnstiles

Free-standing turnstiles are made of stainless steel and, thanks to their corrosion resistance, can be installed outdoors.
Their main advantage are their automatic panic break-out barriers that provide fast evacuation in the event of an emergency.
Unlike the mechanical barriers, they require no direct physical activation and several units can operate at the same time, completely clearing the area for evacuation.
The hydraulic buffer included guarantees silent and gentle turnstile movements.

Compact turnstiles

The compact turnstiles provide an effective solution for pedestrian access control and are ideal for rapid transit entrances where appearance is combined with safety.
They can be installed in line without the need for additional barriers and can be controlled using the remote control panel included in the equipment.
They have a fire alarm inlet and RFID readers can be fitted to them.
They are made of stainless steel and finishes in dark grey or artificial stone are available.

Full-height turnstiles

Offices Industry Retail Transport Special

Full-height turnstiles provide a high degree of safety for the installation and control of their users.

The two-way full-height turnstiles are an optimum access solution for perimeters and other areas with demanding safety standards. They respond to the need for access control to different facilities from the exterior.

They provide users with reliable access thanks to their silent, safe movement.
They can optionally be protected by a roof to avoid rainwater and to offer an anti-climbing function.

Different validation systems can be integrated, such as biometrics, fingerprint readers, facial recognition or RFID cards.

Both the electromechanical model and the motorised model have two-way, one-way or multi-throughput access control and six configurable operating modes.

Technical specifications

Electromechanical or motorised, they have different operating modes and the best technology to ensure the best movement.

MOTOR GROUP ELECTRICAL SPECIFICATIONS

Power supply	22V ± 30 VDC
Consumption	max. 105W
Operating temperature	1ºC to 25ºC

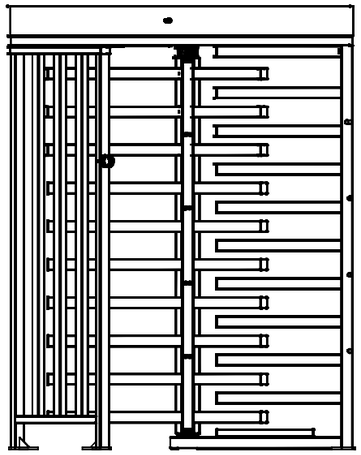
DIMENSIONS

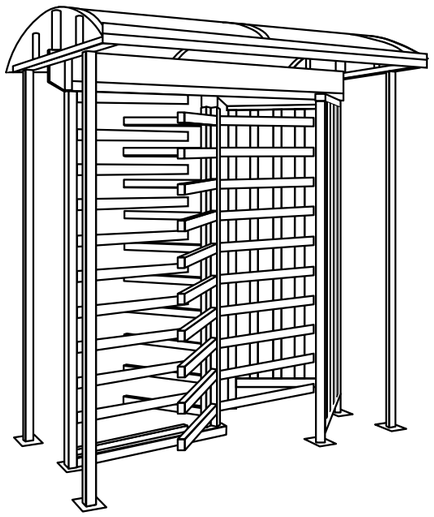
Unit width	1895 mm
Clear width	755 mm
Unit height	2325 mm

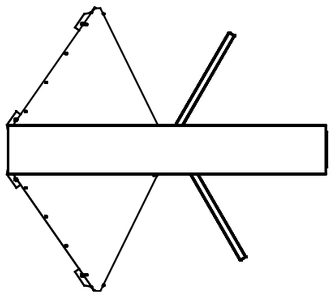
OTHER CHARACTERISTICS

Throughput rate per unit	20 people / min
IP rating	IP53

Drawings







Electromechanical or motorised model.

Made of aluminium with high corrosion resistance.

Ideal solution for outdoor or high-security environments.

Can be integrated into different validation systems.

Technical information and finishes

Full-height turnstiles

The access control full-height turnstiles are made of iron-effect lacquered aluminium to offer great resistance to vandalism and corrosion following exposure to outdoor environments. They can even be installed on uneven ground thanks to the underground installation frame.

They are available in a wide variety of combinations to adapt them to any environment or project:

Operation. Electromechanical or motorised operations are available.
Bar profile. The bars forming the full-height turnstile can be square or circular.
Colour. Lacquered in beige or blue / white.
Number of throughputs. They can be configured as individual throughput or double throughout.

Both the electromechanical model and the motorised model have two-way, one-way or multi-step access control and six configurable operating modes.
The unlock motor allows for fast evacuation in the event of an emergency and the system is compatible with any other access control system.

Their wide range of accessories available make them ideal for any type of project, as they can be adapted to suit any need.

Swing gates

Offices Industry Retail Special

Swing gates are an original access solution adaptable to any environment.

Swing gates have an elegant style, high technical quality and attractive, sophisticated design. This type of access control system has been designed to allow people with mobility problems through. Swing gates have all the guarantees, and their silent, safe movement makes them reliable and safe for users.

They can be combined with other devices, such as turnstiles or motorised speed gates, to provide the facility with an adapted access, they have been designed to blend into any space, and their design can be adapted to the architecture project in which they are installed.

Technical specifications

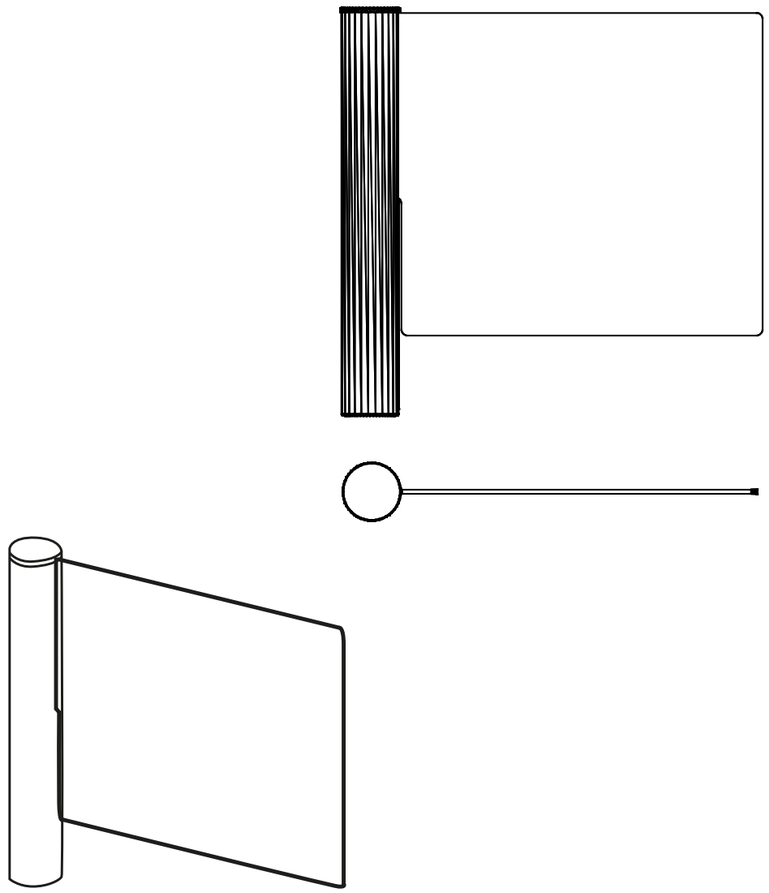
Electromechanical or motorised, they are an accessible, flexible and convenient option that adapts the best technology to meet the needs of each project.

MOTOR GROUP ELECTRICAL SPECIFICATIONS	
Power supply	24V ± 2.4VDC
Consumption	max. 105W
Operating temperature	+1ºC to +40ºC

DIMENSIONS	650 Opening	900 Opening
Unit width	795 mm	1045 mm
Clear width	650 mm	900 mm
Glass height	995 mm	995 mm
Unit height	1007 mm	1007 mm

OTHER CHARACTERISTICS	
Throughput rate per unit	12 people / min
IP rating	IP41

Drawings



Gates available in various widths.

Perspex gates with informative pictograms.

Available in glass or tubular profile with pictogram.

AUTO

Motorised panel movement with unlock motor included.

Technical information and finishes

Motorised swing gates

Motorised swing gates can be configured with 900 mm or 1100 mm gates for one opening or with a width of 650 mm in the case of two gates operating at the same time.

The finish of the structure is satin stainless steel and the tempered glass gates can be replaced with U-shaped stainless steel tubular profiles with pictograms in the centre.

Dimensions	Clear width
1012 x 773 mm	650 mm
1012 x 1023 mm	900 mm
1012 x 1233 mm	1100 mm

Apart from motorised, the swing gates are available with electro-magnet opening for more flexible management of pedestrian access. Their panic break-out system means that the clear width is left open in emergency situations, and the wide closing range means that a throughput area of any necessary configuration can be established.

Integration solutions

FAQs

Can I integrate any identification solution into the Manusa Access Control equipment?

Yes. Some equipment is supplied ready for integration, such as with RFID cards.

Our Engineering Department can help you integrate any other technology.

Which factors are considered during integration?

The main goal of our access controls involves ease of use and safety.

Considering the environment and the needs of the project to find the most ergonomic and appropriate integration solution.

I would like to update the access installation in my company. What options can Manusa offer?

We can offer a comprehensive installation that includes pass-through prevention, software and readers or, if you want to keep your current management system, we only change the pass-through prevention, keeping and integrating your software and your current readers.

Safety systems

Solutions that adapt to the safety needs of any environment.

Manusa focuses on the comprehensive management of solutions for the access and safety of people and places.

We guarantee the safety of any environment by installing solutions that are compliant with the most demanding regulations. Our products adapt to the needs of the different sectors and to the requirements of each project through sophisticated safety systems for the peace of mind of both customers and users.

Automatic fire doors

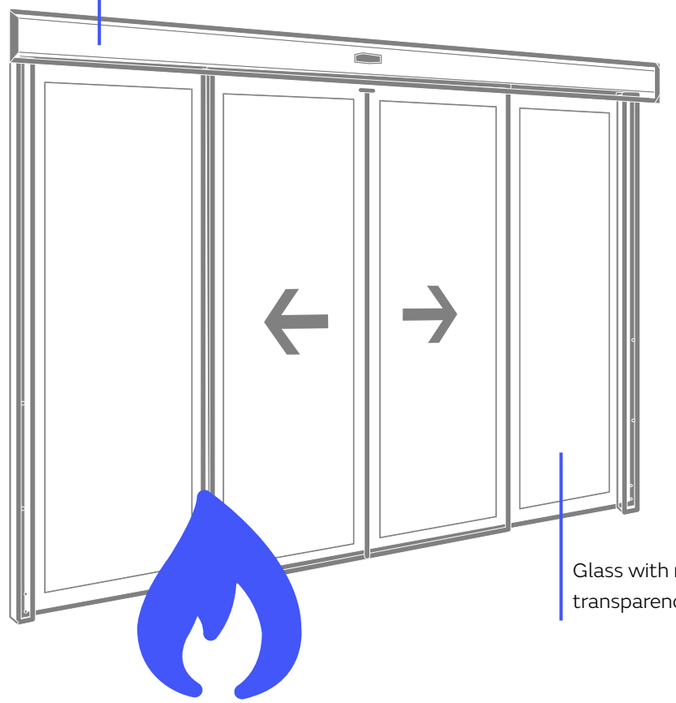
Safety solution

Automatic fire doors that combine the functionality and aesthetics of an automatic door with flame-retardant and fire-insulating properties.

The automatic fire door solution aims to protect areas from flames and to prevent a significant increase in temperature on the opposite side to the fire for a certain period of between 30 and 60 minutes.

These doors have been tested and certified throughout, complying with applicable standards relating to fire resistance. They are available in different types: central, side, with fixed panels and without fixed panels. They include a sealing system of highly-resistant and high-quality flame-retardant and/or intumescent materials and another complementary system to mechanically close the leaves, which activates when the alarm unit is triggered, always ensuring that the leaves close and section off the area.

VISIO+ EI motor group provides great leaf flexibility.



Glass with maximum transparency and quality.

They have completely customisable dimensions, adapting to the measurements of the opening within the testing range. They have a wide range of lacquered finishes and a large assortment of accessories.

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Banks · Shopping malls · Healthcare · Special · Restaurants

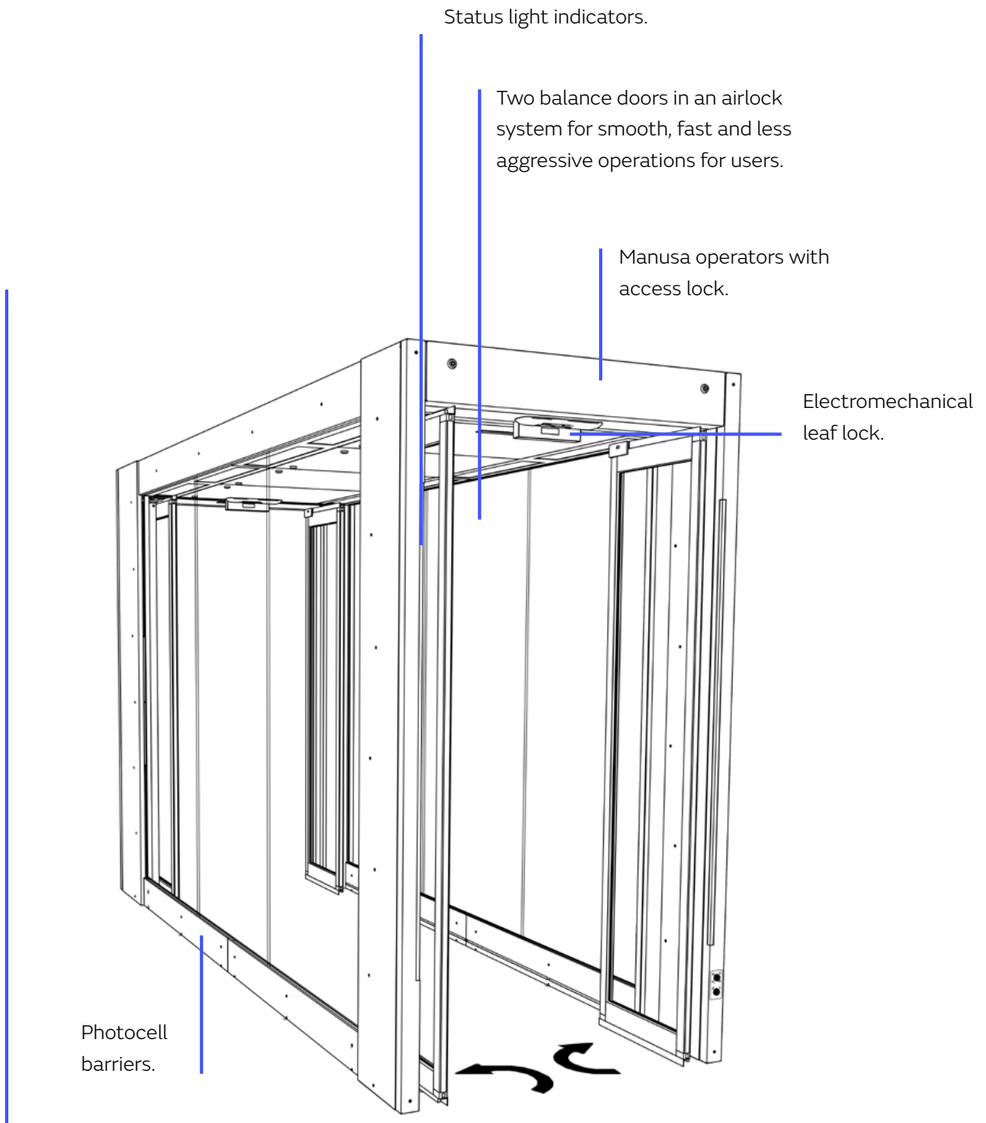
One-way corridors

Safety solution

The one-way corridors have been designed to meet requirements in areas with very high safety demands.

The Manusa one-way corridor is a system that has been specifically designed as a safety device. Designed to allow the fast transit of people in a single direction, normally from sensitive areas to less critical areas (from immigration areas to luggage collection areas, for example).

The one-way corridor can be connected to any local or remote external control or supervision system thanks to its many different possibilities for communication and integration of accessories, such as the intercom, the video-surveillance and counting system and the LED display.



With in-house technology, the one-way corridors can be configured and scaled in individual or multiple mode in parallel, and the assembly is entirely self-supporting and easy to maintain.

Airports Transport Special

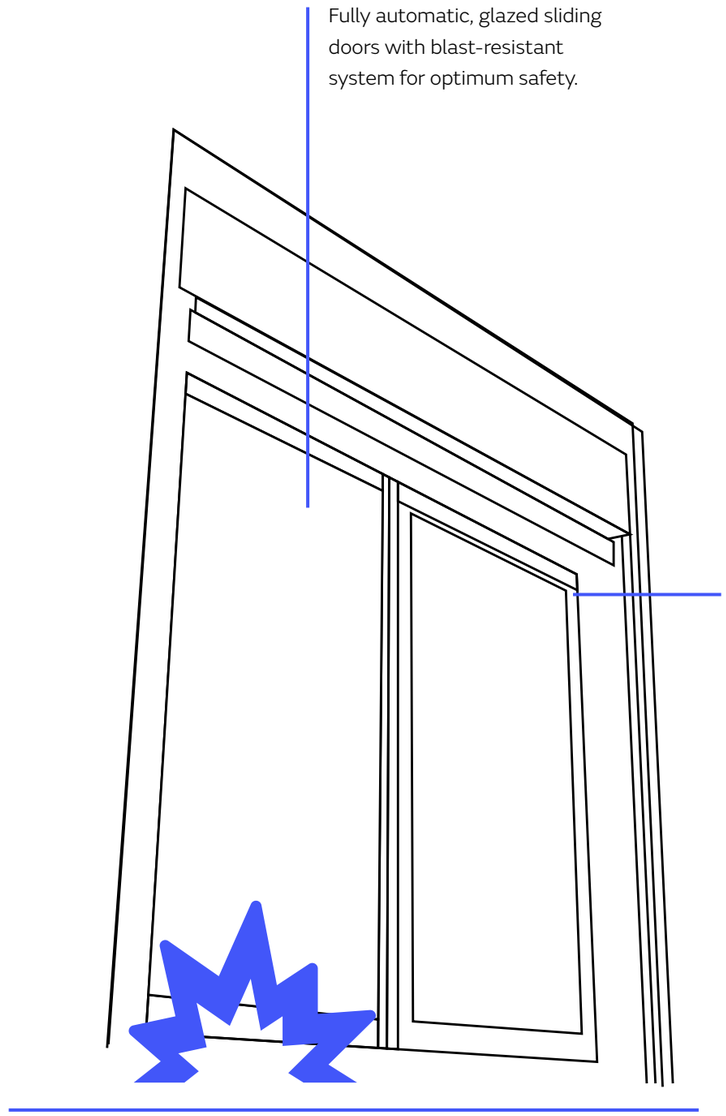
Blast-resistant automatic sliding doors

Safety solution

Blast-resistant automatic sliding door that protects and guarantees the safety of establishments and people.

The Manusa blast-resistant automatic sliding doors have been designed and produced using the latest technology. Fully tested and certified with an ISO 16933 EXV25 rating, they combine the convenience and functionality of glazed, transparent and simple sliding doors, and are fully automatic, with the best blast resistance system for the greatest safety.

Intelligent and safe, they can protect the surroundings and people from blasts. The Manusa blast-resistant doors have been designed to withstand intentional and accidental blasts, reducing the significant dangers of impacts or damage caused by explosions on the other side of the door.



Designed to allow for maximum opening sizes.

There are two types of blast resistant doors: single slide and bi-parting, both with all the characteristics and advantages of a Manusa automatic door, including a Visio+ HD operator and aluminium leaves.

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Automatic safety doors

Safety solution

The Manusa automatic safety doors are the ideal solution to protect any situation that requires high safety levels.
This solution combines the technology, design and functionality of Manusa automatic doors with highly-resistant materials for better protection.

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Vandalproof door

The Manusa vandalproof door combines technology and appearance to become the most effective solution to protect surroundings from burglaries and attempted break-ins.

With an RC-2 rating, the automatic sliding doors are compliant with UNE:1627:2011 regulations and tested in line with Standard UNE-EN 1630:2011. The operator forming them is compact and measures just 100 mm in height, which means the solution blends in perfectly in shops.

They stand out for their stable and silent operations and its many different possibilities for connection and adjustment. They have an automatic, multi-point lock with two locking points per leaf, guaranteeing security and convenience. They also include aluminium leaves with P4A glass and additional reinforcements to prevent them being opened with a crowbar.

Bulletproof doors

The Manusa bulletproof doors are the most reliable solution to protect people and surroundings in the event of attacks with weapons.

The bulletproof doors offer different degrees of protection and classification according to Standard UNE-EN 1063:2001, depending on the type of glass installed. Like any Manusa door, they can be configured and adapted to include different control, operating or safety accessories.

Bus Rapid Transit System

Safety solution

The Manusa BRT System is an integrate automatic door system for BRT stations that synchronises the opening and closing of doors in the bay and the bus in an automatic, coordinated and safe manner.

The Manusa Bus Rapid Transit control systems have been designed for intensive use and can be adapted perfectly to any infrastructure and integrated into the other control systems and equipment in the station. The system is fully integrated into the architecture and is easy to install with low maintenance.

Transport Airport

How does it work?

When the vehicle arrives at the bay and is correctly parked in front of the doors, they are opened either manually by the driver or automatically, after a programmed delay agreed to with the customer.

Once all the passengers have got on or off the bus, the bus driver closes the doors and leaves the bay as soon as all the doors are closed.

What does it consist of?

Vehicle positioning system

The system consists of a series of devices in the stations and on board the vehicles that coordinate the proper opening of the doors in the bays.

Automatic doors

They are made up of a Manusa Visio operator that offers the best features and a series of sliding and fixed leaves to form a modular assembly adaptable to any infrastructure. To guarantee safety, the doors are fitted with different sensors and devices.

Communication system

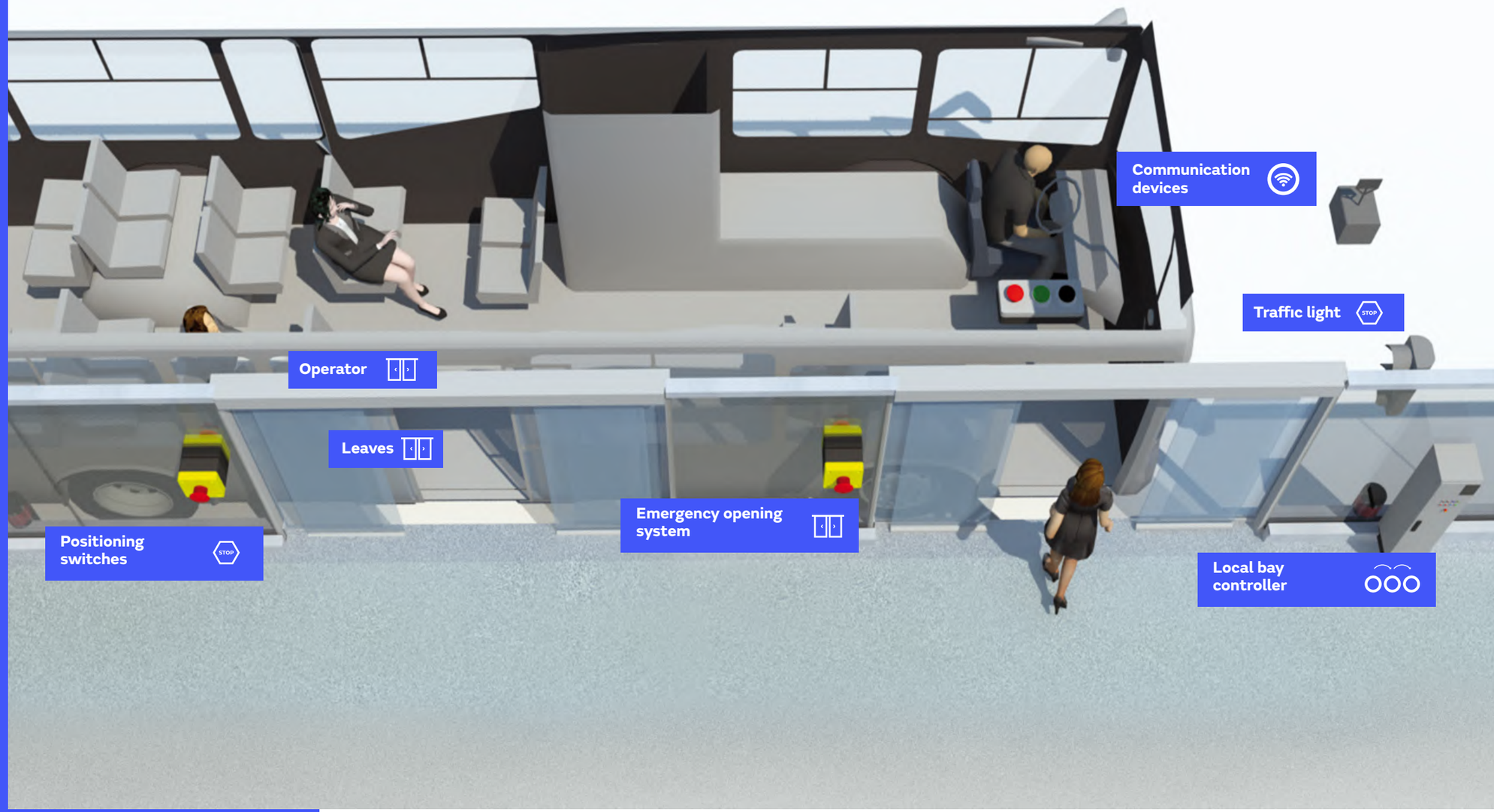
The communication system consists of a PLC that supervises vehicle positioning and manages all the opening and closing orders of the doors.

A scalable management system

Like the doors, the opening and closing control system is a scalable and modular system that can easily be expanded.

What does it consist of?

- **Positioning system**
- **Automatic doors**
- **Communication system**
- **Scalable management system**



Airlock system

Safety solution

The Manusa airlock systems are the most versatile solutions in the market thanks to the many different options for configuration, customisation and adaptation to the surroundings.

In general, an airlock is formed by two or more elements placed one after the other, forcing people to pass through them in a controlled manner.

Thanks to the diversity of products that Manusa offers, we can create any type of airlock with linear, curved, swing, or balance doors, or even using access control devices.

However the greatest advantage of the Manusa airlock systems is that, regardless of the type of doors and access control chosen, the airlock offers many different external control and connectivity options so that it can be integrated into other control systems in the establishment and be managed and supervised from the security office.

Self-supporting solution

Compliant with regulation EN 16005.

Airlock system with sliding door

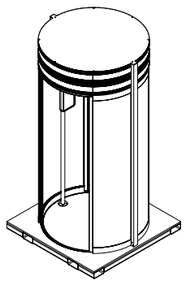
Fully customisable.

Integration of access control systems (cards, biometrics).

Banks Transport Airports

Wide range of operating and safety accessories:

Movement sensors, pressure sensors, thermal sensors, vision camera systems, card readers, biometric readers, facial recognition systems, RFID readers, volumetric systems.



Airlock system with circular sliding door

Airlock system with access control system

FAQs

Apart from the specific safety characteristics, which other aspects of the door help create a safe access?

We have a wide range of automatic and manual locks for our doors that adapt to meet the specific needs of each solution:

- Locks for doors located on evacuation routes.
- Remote mechanical unlocks, with the possibility of key opening.
- Batteries to guarantee correct operations even in the event of a power cut.
- Access management using a mobile app.

The Manusa solutions are safe for the building, as they protect it from blasts, bullets, fire, vandalism or intrusion... but are they also safe for the people using them as an access?

Of course. Manusa prioritises the safety of its customers and users when developing its solutions. Our products are certified under Standard UNE-EN 16005 for safety in use of automatic doors for pedestrian use.

I would like to know what my options are to ensure my business or building is safe:

We have many different solutions to suit the needs of users thanks to the experience we have acquired over more than 50 years. But we do not settle with just that, and in our ongoing aim to offer you safe solutions, we have a large development team that is ready to listen to you, understand your needs, and create a tailor-made solution.

manusa
intelligent access

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