AUTOMATIC SYSTEMS
IBR GROUP

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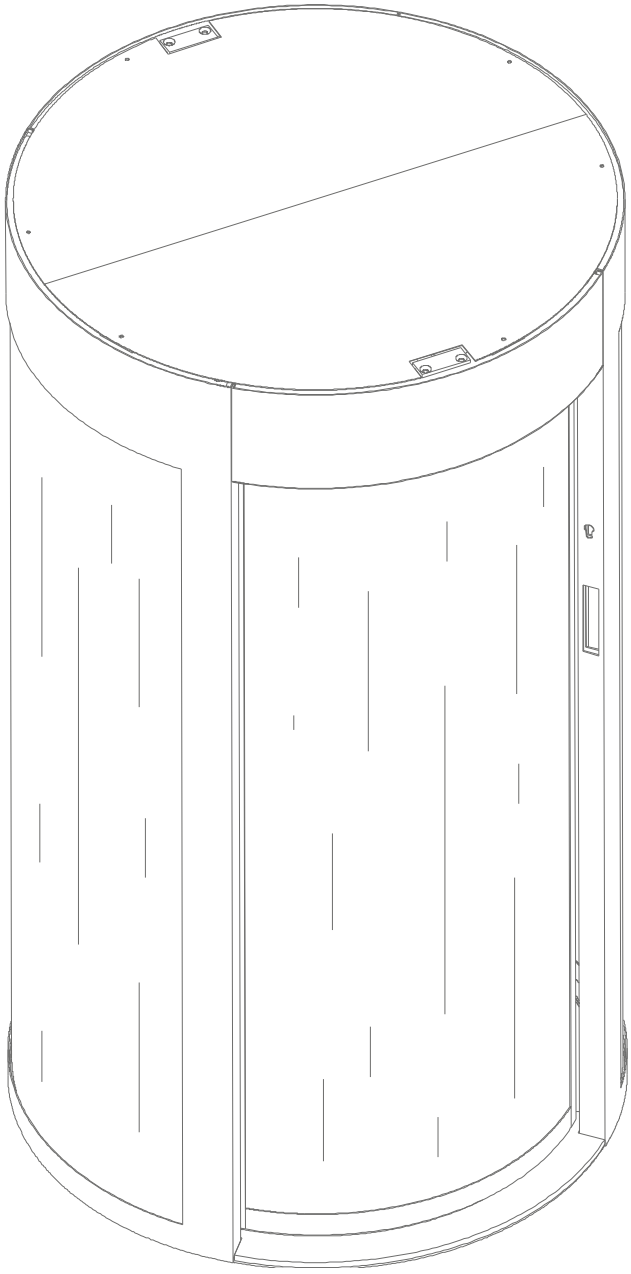

User Manual

(English version)

Rev.00

DOCUMENT REVISION

Rev.	Date	Writer	Checked by	Subject
00	01/2016	SLu		First edition

Thanks you for buying our products and for the trust you have shown in us. We would like to remind you that this manual is an integral part of the ANTI-ROBBERY BOOTH and it is necessary to follow what described. If the Booth is still unpacked, please read the «System installation» chapter.
This manual contains important information on safety use and maintenance for the user.

Drawings and descriptions in this manual are subject to variations and mpdifications without previous notice.

Model	Function	Registration number

Production department ***Automatic Systems.***

Date .....

Tested by .....

AUTOMATIC SYSTEMS
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TABLE OF CONTENTS

SAFETY WARNINGS

- This manual must be made available to any person who works with the equipment, e.g., installers, maintenance technicians, end users, etc.

- This equipment has been designed to control and manage pedestrian access and flow and cannot be applied to any other use without risk to users or to the integrity of the equipment. ***Automatic*** *Systems* cannot be held responsible for damages caused by improper use of the equipment.

- It is strongly recommended that children be supervised as they pass through the door. Extreme care is also required with animals, which should be kept on a leash and under the control of their owners.

- Do not add non-approved accessories (contact between different metals causes an electrolytic effect that decreases the equipment's corrosion resistance or a malfunction of the metal detector).

- The Contractor shall comply with local standards when installing the equipment.

- Any work on the equipment must be performed by qualified personnel. ***Automatic*** *Systems* shall reserve the full right to automatically refuse our warranty if any unauthorized work or work performed by an unqualified technician is performed on this product.

- Access to the mechanism is reserved for personnel who are aware of the electrical and mechanical dangers in the case of negligent operation. This personnel is obliged to close off access to the mechanical equipment after completing any work.

- For any operation that does not require the equipment to be powered on, disconnect the electrical power using the SYSTEM switch on the console ð OFF (or open the breaker on the client distribution panel) AND disconnect the batteries.

- Any internal element that may be live or that could move should be handled with caution.

- The equipment is factory configured in «minimal risk» mode for its users. Parameters should only be changed by qualified personnel with full knowledge of the consequences, and this shall in no way entail any liability on the part of ***Automatic*** *Systems*.

- The equipment must be completely visible to the user/operator before being put into operation.

- After a collision, even if there is no visible damage, the equipment must be checked by a qualified technician.

1. ELECTRONIC MAIN BOARD

In this manual you will find use and maintenance instructions in order to obtain the best results and a high efficiency working from the booth. We suggest you carefully read the manual's contents before using the booth. Information on repairs, adjustments and settings that are different from those contained in the technical manuals must be requested at ***Automatic*** *Systems*.

Keep this manual in a safe place for future consultation

1.1 GUARANTEE

The booth is guaranteed for 12 months after the final quality control.
We are at your disposal for any type of assistance and we would like to remind you that the booth's guarantee will be void should the manual's instructions not be respected.
The guarantee will be void should the user fail to follow the manual's instructions or should the user make modifications without written authorisation by the maker and/or use spare parts that are not original.
Automatic *Systems* reserves the right to make all the necessary modifications in order to improve the booth's performance.

1.2 DESTINATION

The anti-robbery booth must be used exclusively as a security door that controls accesses.
Limitations of use:
the booth must be used only for what it has been expressively conceived for and with all the limitations indicated. Any other use is considered wrong and unsuitable.
The maker cannot be considered responsible for any damages deriving from an improper, erroneous or unreasonable use.

1.3 IDENTIFICATION

The plate here represented, contains all the information regarding the system's functions and identification.
The plate can be found on the booth's roof near the inspection panel.
When asking for assistance please give the registration number that you will find on the plate.

Automatic *Systems* CE

SERIAL NUMBER		**VOLTAGE (v)**	
YEAR		**FREQUENCY (Hz)**	
MODEL		**POWER (Kw)**	
WEIGHT (Kg)		**MAX FORCE (N)**	

1.4 General security norms

Maintenance is allowed only to qualified technicians that have been trained and authorised. The maker is not liable for any tampering or modifications that have not been authorised by the maker who is free from any damages that might have occurred from such actions.
The removal or tampering of the security devices is a violation of the European norms on security. We recommend to use original spare parts only. Our machines are made to accept only original spare parts. The system must be installed only by qualified technicians respecting the instructions that follow here under. Make sure that no dangerous situations arise while operating the system, stop the system immediately should there be working irregularities and call ***Automatic Systems***.

All maintenance on the electrical system even if minor, must be done by a qualified professional technician

1.5 Safety devices

- System's manual unlock in case of total absence of power;
- Internal emergency button;
- Inaccessibility of the mechanical movement;
- Instruction plates indicating the right procedure to follow;
- Sensor devices that re-open the door should there be a physical contact while closing;
- Electronic torque adjuster that maintains the door's push power;
- Electrical isolation;
- Safety transformer;
- Operating peripherals in SELV.

We would like to remind the security norms that must be followed by the client, system grounding, life saver devices.

1.6 Maintenance

The booth has been made in conformity to the acting norms and the European community's legislation dispositions have been kept in mind.
We recommend that the system is checked every six months only by a qualified technician.
During the programmed maintenance, all of the check up steps must be followed as indicated in the system's book (see System book-maintenance).

2. FUNCTIONS AND USE

2.1 TECHNICAL PRESENTATION

This anti-robbery booth is equipped with a special devices that allows you to verify if there are objects or people inside the transit area. On request it can be equipped with Biometrical systems that recognises people. The information on the dimensions are reported in fig. 6.

N.B. the object detection system concerns only the booth's internal space. Therefore, it is possible to anchor the booth to lateral structures (frame) without compromising its function.

The door's structure is made with steel and it has been re-enforced with thick round-tubes.
The paint is made with special materials that give the final finish great resistance to environmental agents and makes it shook proof. The transit area parts are made with highly resistant materials as well as the door's frame (doors have bullet proof glass).

The managing board is placed on the top part of the booth and can be easily inspected. A plastic lid covers the top of this part from dust.

The door's movement is electro-mechanical with a constant power supply. Besides the photocells that protect you from the door, the motors' underfeeding guarantees an extra protection against accidents.

The booth is also equipped with:

- intercom system that connects the outside with the commanding console;
- vocal message with one or more messages (on request);
- push button panel with signalling led (red, yellow and green) microphone, intercom call button and entrance request button;
- stop and intercom emergency call button placed inside the booth;
- ceiling lights, speaker and intercom call button (on request);
- mechanical key that switches the booth on and for night closing.

If the night closing key is not used there is a possibility that the doors will remain unlocked, therefore they can be opened manually should the batteries run down.

2.2 SERIAL CONSOLE

The serial console is equipped with all the main functions used to program the booth's working modes.
The functions can be enabled or disabled with a button: the led signalling will indicate its mode.

SEE FIGURE 1 SERIAL CONSOLE

Serial console functions

ON/OFF console key

ON- Console enabled

OFF-console disabled

Night function

By pushing this button the mechanical key or the impulse contact (spring lock, electronic key, badge reader etc.) access is enabled allowing access to maintenance people etc.
Led on= functions is enabled

Led off = normal function

Check

This function manages the permanent exclusion of the metal detector, weight control and biometric control.
Led on=check enabled

Led off=check disabled

Reset

This button allows you to stop an alarm (that emit an acoustic sound).
Led on=reset for one passage

Led off= normal function

Emergency

It opens both doors at the same time.
Led on=both doors open

Led off= normal function

Block

Does not allows booth to work. It is no longer possible to enter or exit.
Led on= both doors blocked Led off=normal fiunction

Booth

It gives the possibility to manage up to three booth's with the same console.
By pushing this button it is possible to select a booth. It will automatically move should there be an alarm.

Automatic/Manual

By pushing this button it is possible to manage the manual phase and the automatic one signalled by a two coloured led.
Green led=mono-directional entrance Yellow led=mono-directional exit
Yellow/green led=bi-directional

External door

It allows you to open the external door during manual phase.
Green led=external door open Red led=external door closed

Internal door

It allows you to open the internal door during manual phase.
Green led=internal door open Red led=internal door closed

Intercom

Should there be an intercom call from a booth a bell in the console will ring. By picking up the handset the console will connect directly with the booth that called. When we lift the handset, should there be more booths on line, press key 7 (booth 1, booth 2, booth 3) to connect with the desired booth.

Resetting the control logic

For a complete Reset of the main panel press the buttons 8 and 11 together until all of the console lights go off. The booth resets automatically when we release the buttons. While resetting do not do other operations on the console or the booth.

2.3 Entrance / exit procedure

Turning on the booth

The booth can be switched on or off with the control console keys or with the mechanical lock (part. n°2 fig. 2).
Use the mechanical lock key for first entrance and last exit.
When the booth is turned on it will automatically open the doors (first cycle). It will be necessary to use this step to enter the premises. For security reasons the first entrance will be protected by the person presence feature if it has been set on the console.

Normal transit

After turning on the booth, make sure that the console is set for regular transit in the following way:
1- Push external call button (part. n°1 fig. 2) that is placed on the booth's side and wait for the door to open.
2- Enter the booth.
3- Wait for the external door to close and the internal one to open.
4- Exit the booth.

Door closed to the public

In the hours where the entrance is not allowed to the public it will be necessary to exclude (turn off) the external door button through the console's command **Bi-directional-single exit**. In this case a person must use the intercom to enter.

Anti-hostage alarm

The weight control system is set directly by the maker at 120 Kg maximum (unless differently request by the client). This means that a weight that exceeds the set value will stop the opening procedure and the external door will remain open to allow the person to exit, while a vocal message will ask the person to contact the operator using the intercom.

Allowing entrance to two people

Should there be a need to allow two people in at the same time (or with the anti-hostage alarm on) by pushing the Reset button the system will allow the procedure.

Opening doors during an emergency

The emergency command will open both doors at the same time.
Should there be a system failure it will be necessary to use the manual emergency procedure. In this case shut power down using the emergency button placed in correspondence to the internal side of the booth, then open the doors manually.
Automatic function in case of power failure
Should there be a power supply failure (220v) the batteries will start working automatically and will enable the functions for at least 30 more minutes. After this time period the doors block and by pushing the on **switch on the electronic logic panel** it is possible to use an extra energy reserve to allow the door to open a few times more.

N.B.: The use of the main panel switch must be used only for emergencies since it can ruin the batteries which must be substituted if they do not re-charge

Booth internal stop button:

The stop function, if active while the doors are moving will allows you to move the doors only manually. If the stop function is activated when both doors are closed the external door break will unlock and the doors can be moved manually.
To bring the booth to a normal working condition it must be reset.

Passage authorisation

Should undesired people be recognised or if it is necessary to interrupt the incoming traffic it is possible to block the flow by excluding the enable passage on the console in the OFF position.
To restore normal transit set to bi-directional.

Incorrect function

Should there be working anomalies, before you proceed to other settings, make sure that the console commands are set to NORMAL TRANSIT.
Power voltage fluctuation or long periods of power failure can cause the booth to work incorrectly by simulating foe example the presence of an object inside the booth.
To set the normal working conditions turn off the booth from the console and turn on again after a few seconds.
Should there be a blackout or the batteries are dead it is possible to unlock the doors as described in ***«Opening doors during emergencies».***
Should the booth's malfunction persist or in the presence of different anomalies from those described, please call our maintenance and service department at the following number.

3. SYSTEM INSTALLING

3.1 Preliminary steps

Before you proceed installing the booth it is necessary to follow very carefully the following steps in order to avoid any malfunctions.

N.B.: ***If the floor is not levelled or has imperfections it could prevent the mechanism from working properly.***

Verify that the booth can be transported vertically to the area of destination.
The booth's size cannot be reduced, but it can be placed horizontally for a short distance then it must be placed vertically immediately after.

N.B.:***This operation is dangerous and it can cause mechanical damages. We suggest that this job must be carried out only by well equipped and trained people.***
It is necessary to let Automatic Systems know when this operation is necessary.

Verify that the ceiling is at least 280 cm (each both is 235 cm), this will guarantee that there is enough space on the top for the assembling and maintenance of the system.

3.2 UNPACKING

After unpacking all of the parts make sure that the booth's components are not visibly damaged. Should you have any doubts please contact ***Automatic Systems*** directly.

ALL PACKAGING MATERIALS (PLASTIC BAGS, POLYSTARENE, NAILS, SCREWS WOOD ETC.) MUST BE KEPT OUT OF REACH OF CHILDREN SINCE THEY COULD BE DANGEROUS.

Place this material in dump areas specifically for this purpose.

After unpacking and before you proceed to assemble the booth, put away all the material in a dry and clean place.

Installation and both assembling must be carried out only by qualified people that have been authorised by ***Automatic Systems***, and the install and assembly manual must be followed.
After the installation the technician, along with the client will test the system and fill out a report and the client will sign his/her approval if the test is positive.

Testing, adjustments and activating the booth must be done only by a qualified professional tachnician.

3.3 Booth placing

Position the booth in the desired area placing the external part of the booth toward the outside of the building (see fig. 2). To move the booth use a crane that handles at least 1000 kg, with chains that can be hooked to the booth's four top corners «A» (see fig. 7A), or rollers under the base (see fig. 7B).

SEE FIGURES 7A-7B BOOTH MOVING

Free the booth from the external packaging only after it has been positioned.
The booth has adjustable levelling feet «K» (see fig. 8), operate on these with a 6mm spanner to obtain the right levelling.

Attention: levelling the booth can modify the position of the doors. Manually check to see that the doors run smoothly.

The booth must be fixed laterally to a strong structure.

3.4 Placing the lateral frames

There are 3 possibilities to anchor the booth to the shock absorbing structures.

SEE FIGURE 11 PLACING THE LATERAL PANELS

The mentioned structures can be requested directly from *Automatic Systems* should the installation be carried out by the client.

Placing the lateral frame is as follows:
1) Position the booth in the desired place and set it firmly (see «Placing booth»).
2) Fix the sides of the booth by drilling and threading in correspondence to the holes that are already present on the sides themselves.
3) Place the booth to the shock absorbing structure.
4) Drill holes in the shock absorbing structure and the booth at the same time in a part that is not visible.
5) Use screws of the right size and tighten.

3.5 Wiring

1) Close to the booth, place an electrical outlet power box directly from the bank's main fuse box. The Booth comes with a power supply cable that is 1,5 metres long and a plug.
   We recommend you protect the power cable with a 15A Id = 0,03A.
   Make sure the system is earthed.

SEE FIGURE 10 WIRING

N.B.: ***we suggest you make the outlet box with 2 plugs and to place the differential in it.***

2) Place a shielded multi-prong (8) cable from the top of the booth to the console using a 32 mm tube.
   Use a tube that will be different from the power supply one.

3) Should there be two booths then the power must have two separate outlet boxes as well. All of the booths must be connected to each other and to the console with a ***Automatic*** *Systems* code 5804530 connecting cable.

4) Connect the console cable.

Use a tube that will be different from the power supply one. In respect to the norms it is mandatory to earth the system.

5) Switch on the power from the bank's main fuse box (this power line is separate from other power lines). Then switch on the booth's main switch.

6) Access the booth by using the key placed on the console to switch on or with the one placed on the booth's external side. Wait for ten seconds during which time it is better not to touch the booth's doors so that the settings are not altered.

7) Now the booth is ready to be tested (to be done only with authorised employees) and used.

3.6 Testing

After installation verify:
- Command console functions.
- Unlock CE button.
- Photocell functions.
- Verify door movement.
- Automatic reset.
- Light signals.

For different settings from those set ask ***Automatic*** *Systems* for the technical manuals.

3.7 Disabling and removing

If the booth is not used for a long time disconnect the booth's power connectiong cable.
Disconnect the batteries. We suggest you place all parts in a dry and well protected environment and to isolate any parts that might be on the floor or walls.

WE WOULD LIKE TO REMIND YOU THAT THE DISSEMBLING CAN BE DONE ONLY BY QUALIFIED TECHNICIANS THAT HAVE BEEN AUTHORISED BY THE MAKER

4. MAINTENANCE

4.1 SYSTEM BOOK

Verify the following every six month :

TESTING TYPE	TESTING DESCRIPTION
Electronic motherboard	Check for liquid infiltrations. Check parts for over-heating. Check the main board's led.
Command console	Verify commutator working. Verify button working. Verify if led working. Check and set intercom volume, if necessary.
Keypads and lights	Check light signals. Check opening buttons and bell.
Anti-accident	Set door distance closing/opening. Emergency unblock testing. Verify maximum torque. Check sensitivity of anti-accident sensors.
Motor	Verify the position of door blocking arms. Check if there are oil leaks in the motor reducers. Check if there is play in moving parts when the door is still.
If there is play when door is still	Check carrier wheels and floor for wear and tear. Check moving cable parts. Check motor noise and kinematic mechanism.
Person control system	Verify transit with one person. Verify transit with two person.
Self-powering	Check if batteries need to be changed. Check the system's working without the power line (only the booth's internal light must off).

N.B.: ***This book is an integral part of this system and it must be kept in a place near the booth.***

4.2 MAINTENANCE SHEET

Description of periodical maintenance that follow what described above.

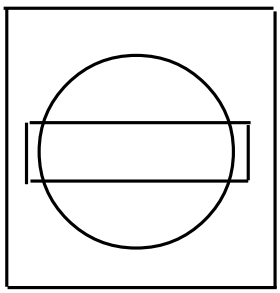
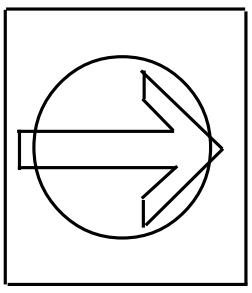
Date	*Verified by*	*Signature*	*Next check-up*	*Notes*

N.B.: ***This book is an integral part of this system and it must be kept in a place near the booth.***

4.3 Special requests

- Vocal message with messages in different languages.
- Internal micro video-camera.
- Badge reader.
- Electric keys.
- Electronic keys.
- Opening radar at a distance.
- Interface electronic card with emergency exit (door can be manually pushed).
- Electronic manager card Self-Service Area.

4.4 STICKERS

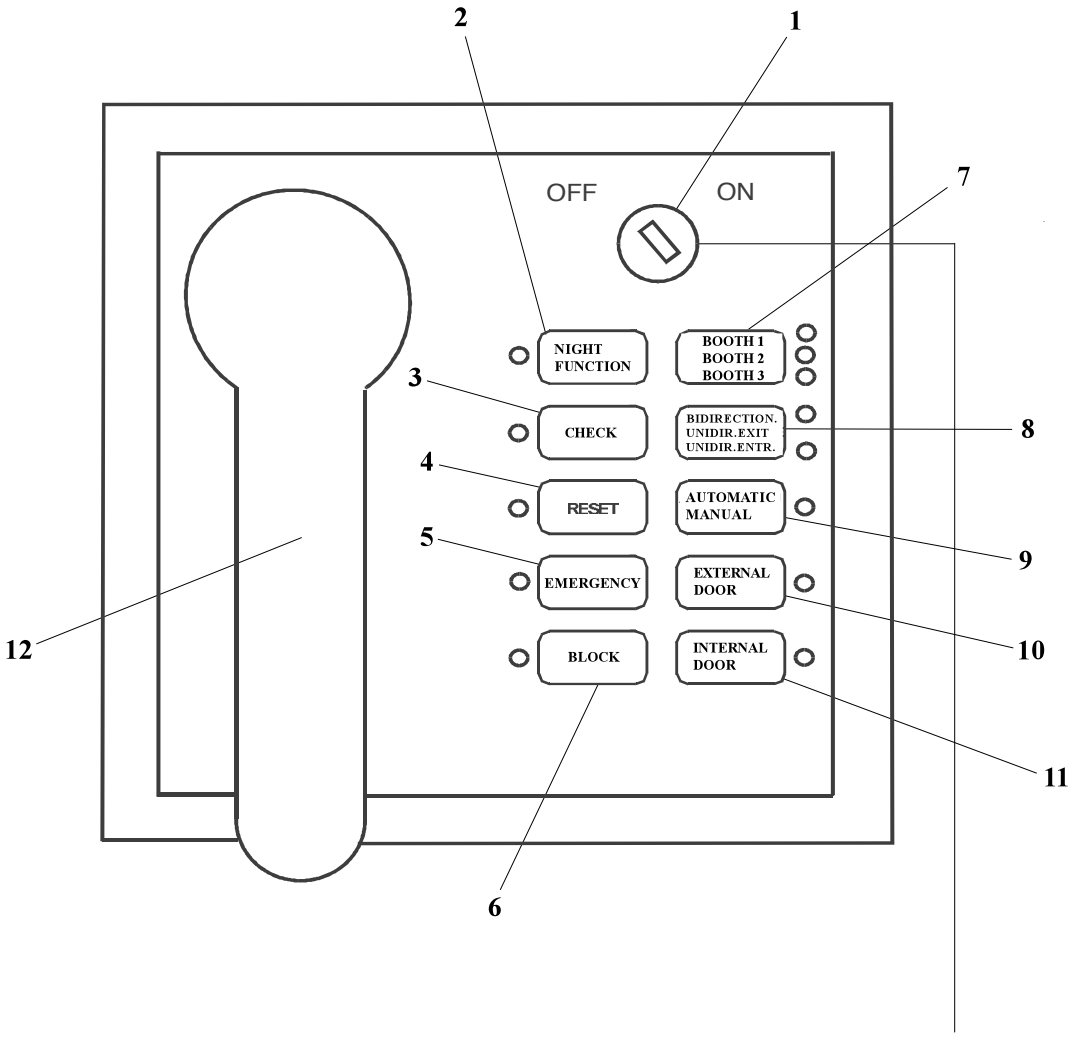
entrance	*to be placed on the door's entrance glass*
exit	*to be placed on the door's exit glass*
DO NOT STEP ON	*to be placed on the booth's roof*
>>>>>>>>>	*place on the door glasses in order to be seen*
external side	*to be removed when installing*
Enter one at the time please	*to be placed on booth with anti-hostage system*
 	*to place on booth* *to show the direction*

4.5 Function anomalies

PROBLEMS	*POSSIBLE SOLUTIONS*
The door does not close.	**1) Two people in the booth:** 1.1) Through the intercom ask one person to leave the booth. **2) A person with excessive weight or an adult with a child inside the booth:** 2.1) Push «Reset» on the serial console if we want to allow the person/people to pass. If not ask, the person to leave the booth through the intercom. **3) Booth is empty:** 3.1) Verify the console's mode. See that the «Block» function is not active on both. **4) The booth is empty and none of the above conditions apply 1-2-3:** 4.1) Push «Reset» on the serial console. **5) The radar placed over the passage (part. n°4 fig. 2 and n°3 fig. 4) is obstructed:** 5.1) Clean radar glass. 5.2) Exclude radar: press 10 on the serial console if the radar is of external door or 11 if it is of the internal door while pres sing 7 at the same time for a second. The booth is reset, but you must call the *Automatic Systems* assis tance service. **6) Call the *Automatic Systems* assistance service.**
The door does not work properly.	**1) Verify the command settings on the console.** **2) Do a console Reset.**

5. GRAPHIC VIEW

5.1 Figure 1 serial console



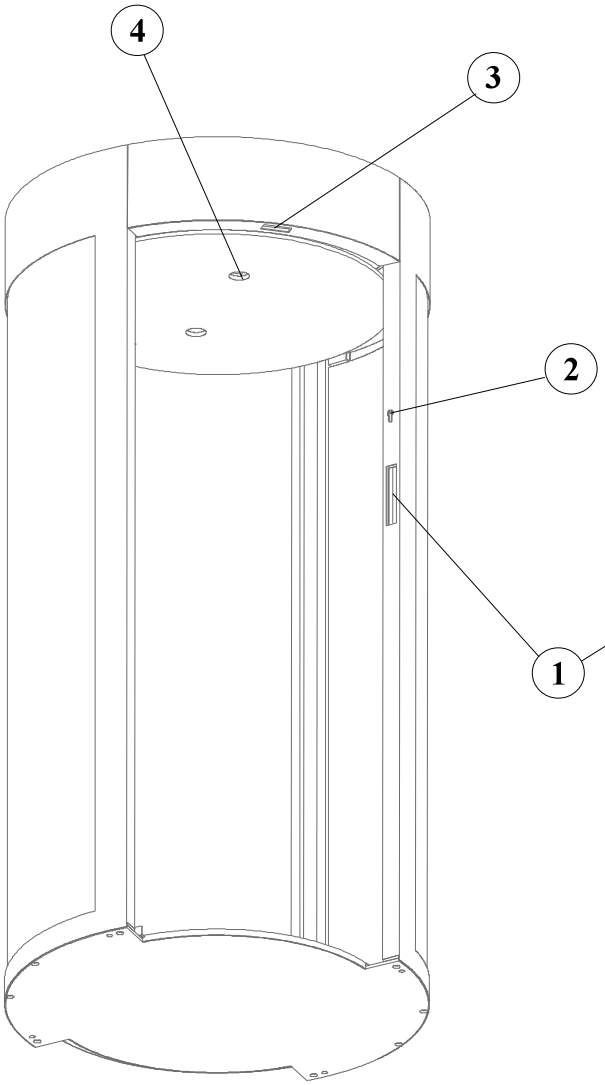
1) ON/OFF console key
2) ON-Night function
3) Switch (Metal Detector)
4) Reset
5) Emergency
6) Block
7) Booth1, booth 2, booth 3.
8) Bi-directional/mono exit/mono entrance
9) Automatic/Manual
10) External door
11) Internal door
12) Intercom handset

ENABLE CONSOLE KEY

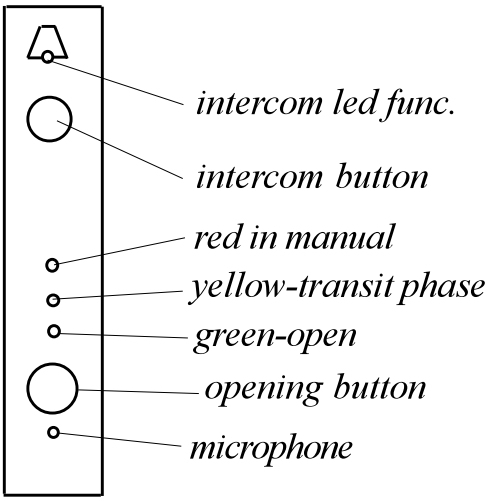
ON - Console enabled

OFF - Only manual function enabled and Reset for one passage

5.2 Figure 2 external side view

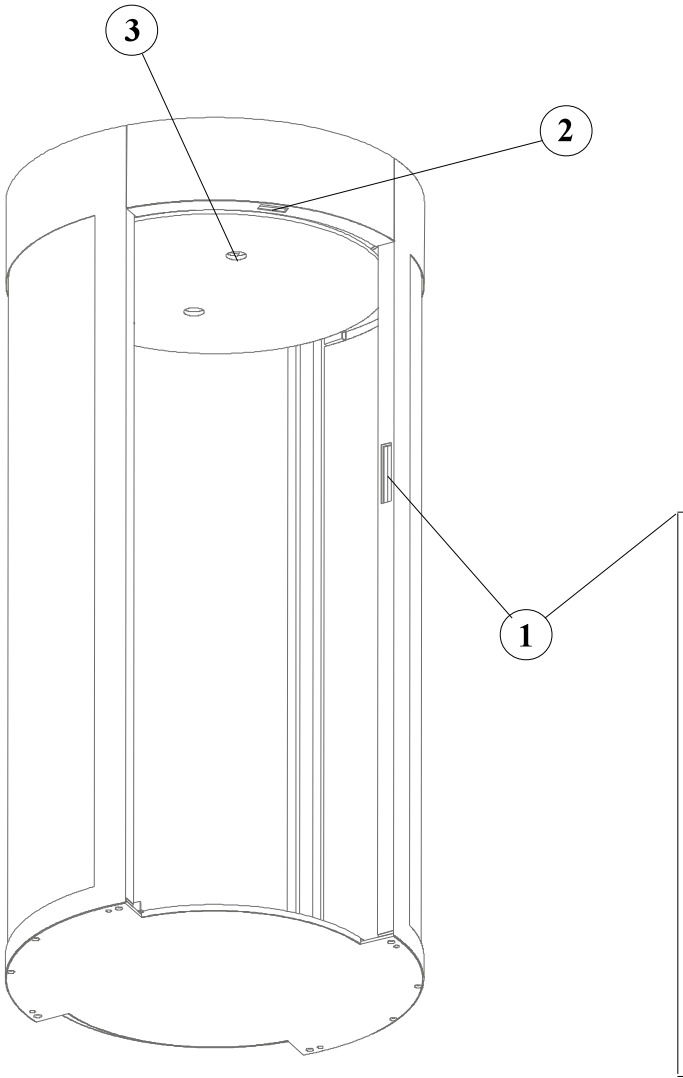


5.2 Figure 3 ext push button

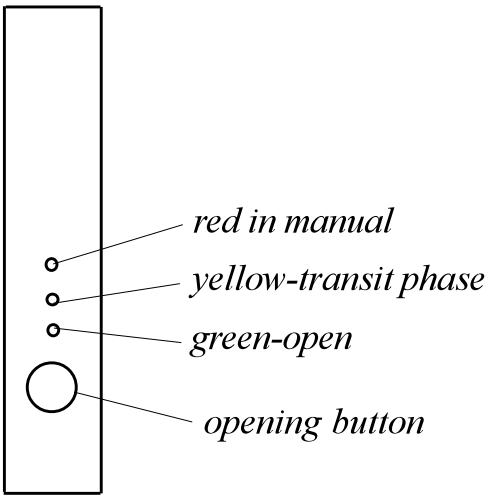


1) external push button
2) mechanical lock
3) accident prevention radar
4) light

5.3 Figure 4 internal side view

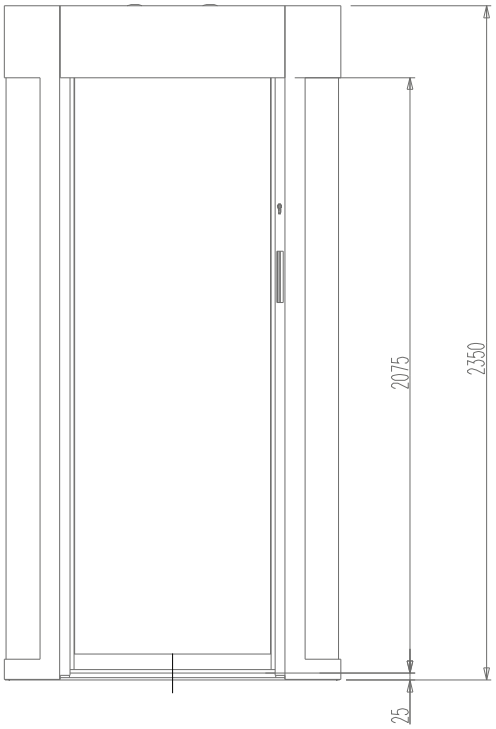


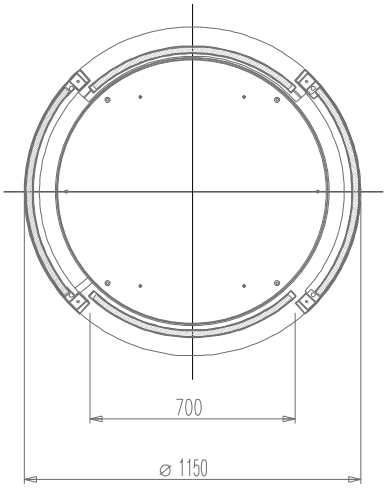
5.3 Figure 5 int push button



1) internal push button
2) accident prevention radar
3) light

5.4 Figure 6 technical features





Electrical system

Power supply:	220 VAC ±10% - 50 Hz.
Maximum power consumption:	0,2 Kw.
Batteries:	2x Plomb, étanches 12 V - 2 Ah en série.
Inputs / Outputs:	20 + 16.
Libnes:	3 RS232 (+1 RS232 Privilégiée) 2 RS485.
Motors:	2x 24 VDC - 150W.
Main board managment:	Microprocessor programmable.
Autonomy without power:	60 minutes with 200 passages.

Structure

Frame:	Curved steel sheets 30/10 mm.
Sides impact-absorber:	Layered curved glass 20/22 mm.
Finish:	Finished with RAL paint, smooth or embossed - covering in steal/ aluminium or other.

Performance

Working check:	Automatic reste control from console.
Transit speed:	7 passages for minute.
Working temperature:	-10°C/+55°C.

Dimensions and weight

Dimensions:	Height: 2350 mm.
	Diameter: 1150 mm.
Passage dimensions:	Height: 2075 mm.
	Width: 700 mm.
Weight:	680 kg.

5.5 Figure 7A - 7B booth movement

Fig.7A

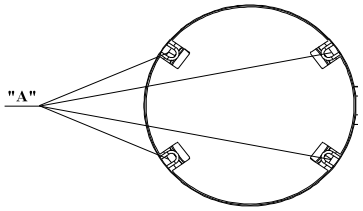
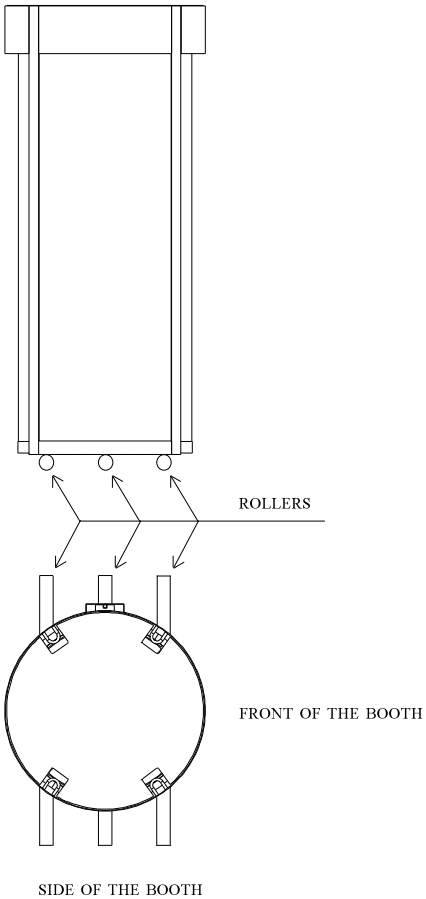
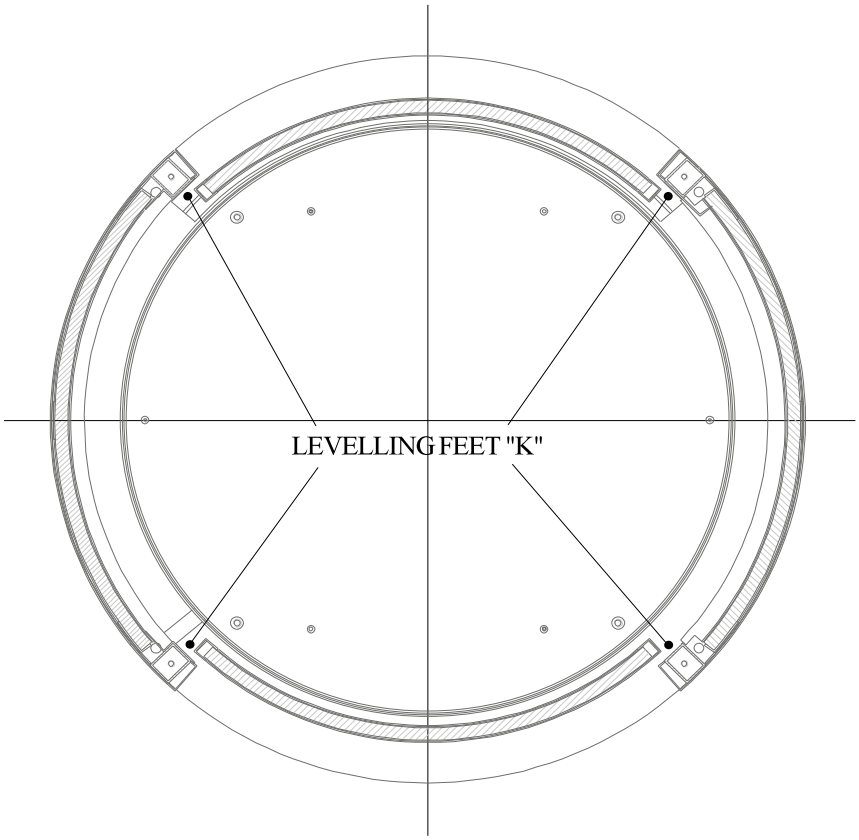


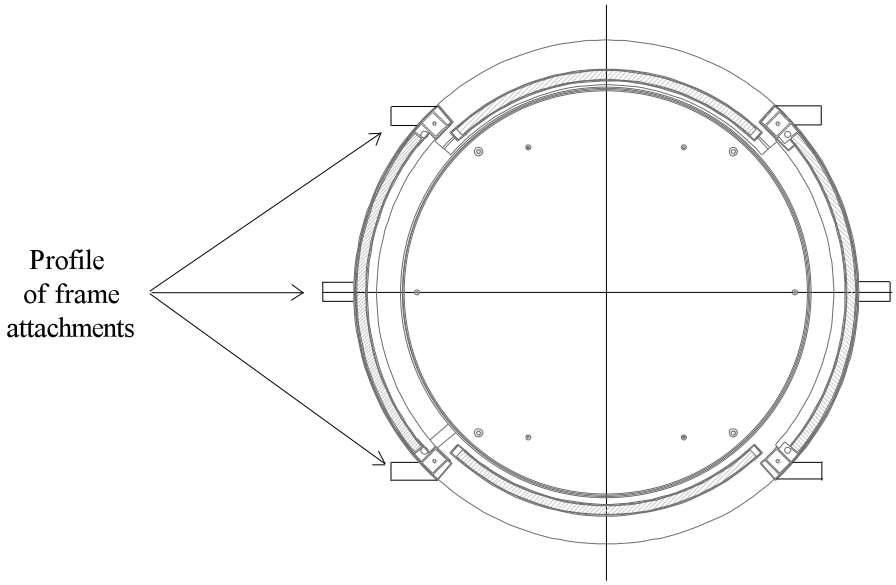
Fig.7B



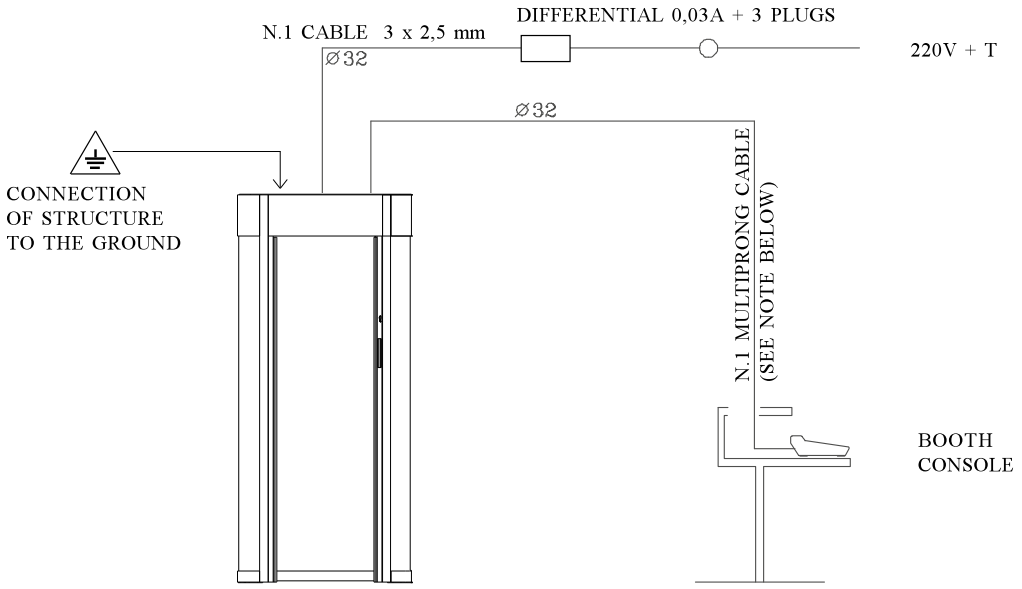
5.6 Figure 8 booth levelling feet



5.7 Figure 9 installing lateral sides



5.8 Figure 10 wiring



SERIAL CONSOLE : CABLE AWG CAT.5 4 COUPLES.

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