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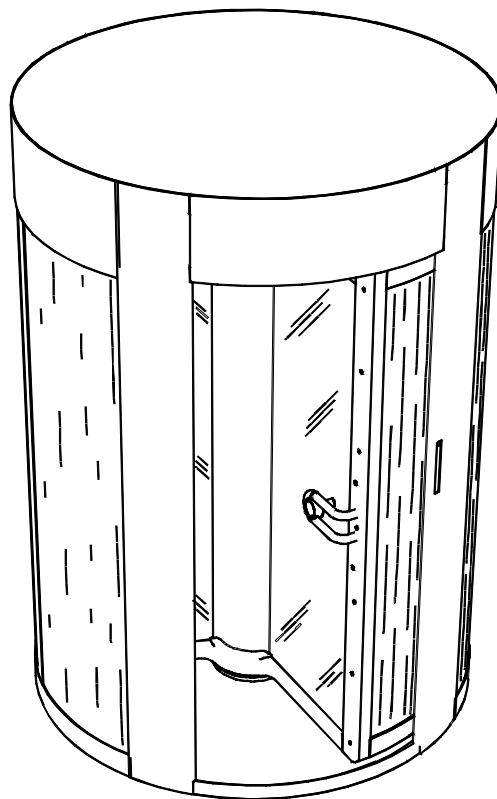
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**REVOLVING
DOOR**

ROTANT SUN



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Introduction

Thank you for trusting in our company and buying our product . We would like to remember you that this handbook is an integral part of our anti-robbery revolving door and for this reason it is necessary to follow its indications. If the plant has not been set, please examine the chapter called “unpacking, installation and testing”. This is a very important book for all our customers as in it they can find all the basic information concerning use and maintenance safety.

No part of this document can be reproduced without SAIMA SICUREZZA S.P.A written authorization.

Notes preceded by this symbol give important information regarding use, risks, rules.

KEEP CAREFULLY THIS HANDBOOK FOR ANY FURTHER CONSULTATION.

This book describes all use and maintenance rules it is necessary to follow in order to get the best results and to achieve the highest efficiency level from your revolving door.
Please read carefully this piece of advice before operating the machine.

Guarantee

The machine is guaranteed one year from the date of the test.

We are at your disposal for any further information you need.

Please remember that the guarantee is considered as cancelled if you do not follow the rules here stated.

Any maker's liability gets lost if the user does not follow the notes here inserted or if the user introduces any change without the maker's previous written authorization.

Saima sicurezza S.p.A reserves the right to do all the changes considered necessary for a better working of this machine.

Destination/use

The revolving door must be used only as an equipped protection door with entrances control.

Use restrictions:

The revolving door must be used only for the purpose it has been made for, taking into account the fixed restrictions.

Any other use must be considered as inappropriate and wrong.

The maker cannot be considered responsible for any damage caused by inappropriate, wrong or irrational use of the revolving door.

Identification

The metal plate, here represented, contains all the information about identification and plant working.

It is placed on the roof of the booth near the internal inspection door.

SAIMA		CE	
SICUREZZA S.P.A. INDICATORE (AR) ITALY Tel. 0575-9291			
MATR. N°	<input type="text"/>	VOLTAGE [V]	<input type="text"/>
YEAR	<input type="text"/>	FREQUENCY [Hz]	<input type="text"/>
MODEL	<input type="text"/>	POWER [kW]	<input type="text"/>
WEIGHT [Kg]	<input type="text"/>	FORCE MAX [N]	<input type="text"/>

General safety rules

Only special trained and authorized staff can carry out the maintenance service and any tampering or modification of the plant which the maker has not previously authorized, this prevents him from being responsible for any damage due to what above mentioned.

The removal or tampering of safety devices involves the breaking of the European laws concerning safety.

We recommend the use of original spare parts. Our machines are planned to accept only original spare parts. Their

setting must be carried out by skilled staff able to respect the instruction hereby stated.

Please check that during the working of the machine all the safety conditions are respected. If you note an irregular working, please stop the system immediately and call the SAIMA SICUREZZA S.P.A. maintenance service.

Any operation on the electric system even if of small entity must be carried out by skilled staff

Security devices

- Ergonomic console;
- Manual release of the plant in case of total lack of electricity.
- Button of inner aid call;
- Mechanical motion not accessible;
- Metal plates showing the correct procedures to be followed;
- Sensitive devices to open the wing in case it is intercepted during the closing phase;
- Electronic couple governor to keep the noticeable thrust on the wing.
- Accident-prevention microes inside the small inner door;
- Stopping button to stop from the bank;
- Electrical isolation.
- Protection by magneto-thermic switches;
- Safety transformer.
- Peripheral devices working by SELV;

We kindly remind all our customers to follow the inforce rules, first of all the: earth-connection of the plant and the safe device.

Maintenance

The door has been realized in compliance with regulations and taking into account the low coming from the el directions.

We recommend you to verify the system six-monthly by qualified staff.

During this planned maintenance it is necessary to carry out the procedures mentioned in the maintenance system handbook.

I - INSTRUCTIONS FOR USE

General description

The revolving door ROTANT SUN is part of the control switched on self-runned plant runs both automatically or manually.

The revolving door has a special mechanical device which avoids the bounce of the spider in case of manual thrust. In case of automatic rotation, the mechanical device reacts to thrust forces which are applied to the turnstile increasing or decreasing the rotation speed.

A special control system allows verifying the status inside the transit box after every alarm of the metal detector.

The control for metal object presence is activated both during the automatic rotation of the turnstile and during the rotation by request and it includes the whole transit box. In case the control system reveals the presence of the metal object the alarm will be activated, the turnstile will invert the running until it reaches the forward door allowing the user to exit remove the metal object, after this the user can enter following normal running.

After every alarm a sounding message will invite the user to exit from the transit box and to deposit the metal object inside special chest of drawers.

N.B: *It is possible to fix the revolving door to lateral structures (casing, ceiling) without endangering its correct working.*

The enblock of the revolving door is made with still plate (thickness 30/10), conveniently strengthened by tubular of thick thickness. The painting is made using special stuff so that the final product has a very good resistance to crash and atmospheric agents. The supports of the door, where are placed the bullet-proof bent glasses, and walls of the transit box are realised using special material, which are highly resistant.

The metal detector is placed inside the revolving door in an invisible way. Metal detector bolts can be easily replaced.

The metal detector general board and the logic direction unit are placed on the upper side of the revolving door so to be easily inspected. A roofing of plastic material protects the upper side from the dust.

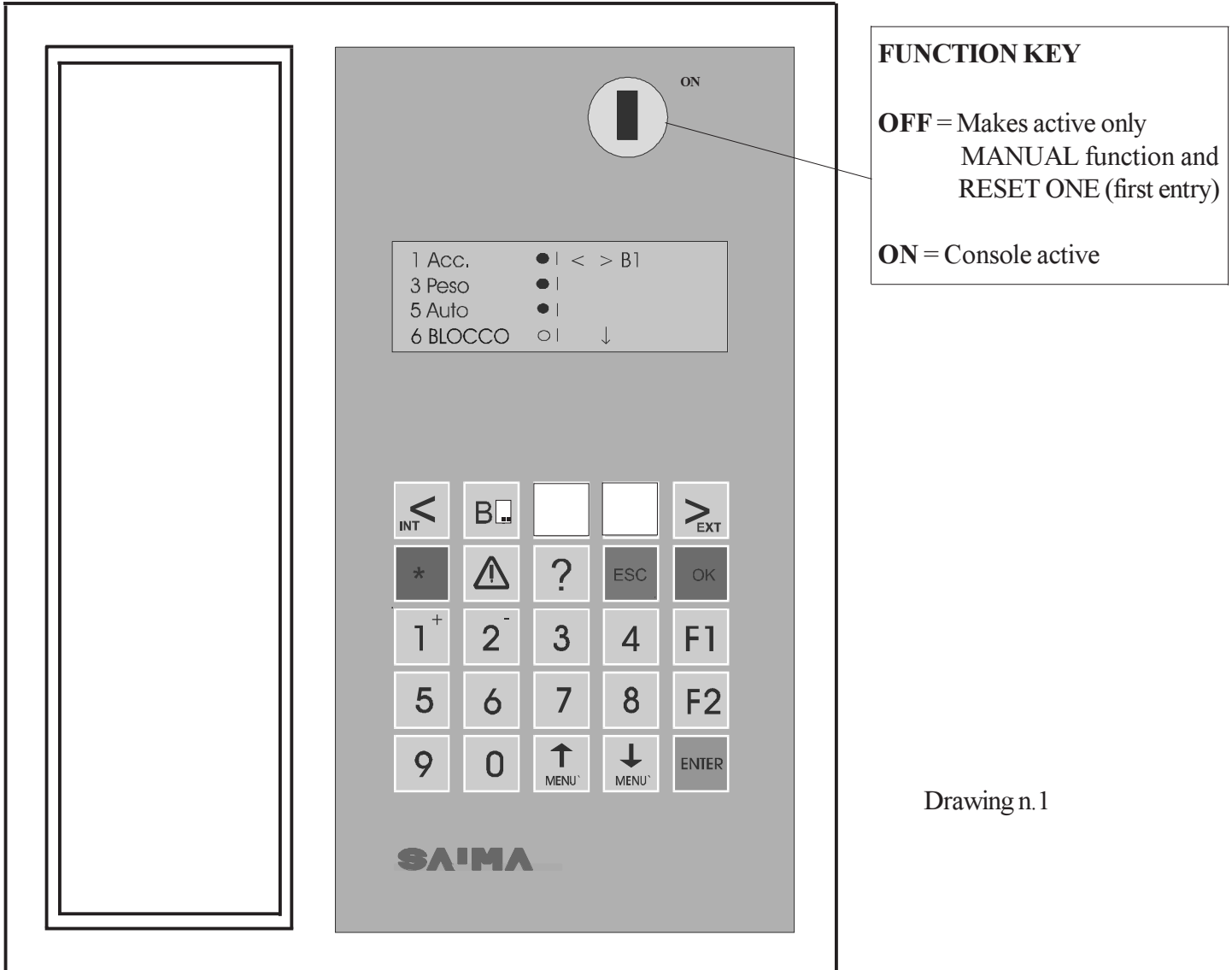
The turnstile is animated by an electromechanical system and a direct current motor runs it. The sub-feeding of the motor gives a further guarantee of accident-prevention protection further to the pneumatic one.

Furthermore the revolving door furnished with:

- An interphone to communicate between the external side and the control console;
- Vocal synthesis with one or more messages;
- Push-button panels with semaphore signals Red. Push-button to start the rotation of the turnstile (in case of rotation by request);
- There are sensors both in the internal and external side of the bank which start the turnstile rotation (in case of rotation by request);
- Ceiling bowl with headlamp to light the transit box, loudspeaker, interphone button and interphone (set by request).

I - ISTRUZIONI FOR USE

Control console



Drawing n.1

INTRODUCTION

The “Main Menu” reproduces the console’s functions (turning on, metal control etc.) and the booth condition. So during the normal system operation, the console besides allowing to work on the normal functions of the booth, it also gives information about the booth condition such as doors position, the presence of a person inside the booth, possible alarms and 220 volts.

The menu structure and the access to the new digital console functions are being thought to simplify and immediately use it, exploiting some direct keys to have access to the main functions.

At the turning on for some seconds appears on the display the name of the console’s program.

I - INSTRUCTIONS FOR USE

Control console

MAIN MENU

The main menu is what the user sees during the normal system operation. This divides it in two parts: on the left there are the controls that can be send to the booth, on the right it's summarized the state of the system.

Fig.1

1 Turning on	•	< >	B1
2 Metal	•	Alarm	
3 Weight	o	Metal	
4 Bio	o	↓ ↵	

Fig.2

5 Bidirectional		< >	B1
6 Block	o	Alarm	
7 Emerg. door	•	Metal	
		↑ ↵	

In figures 1-2 above described you can see what appears on the display during the console operation. On the left hand of the display are reported the possible functions of the booth, the **number (1-7)** written just before the functions indicates the key associated to it, the word list sign written after the function specifies if the **function works “•” or not “o”**.

The pages can be browsed by the **keys “↑” and “↓”**;

- Turning on function (1) and Metal Control (2) work “•”;
- Weight control function (3) doesn't work “o”;
- Bio function (4) doesn't work “o”;
- Bidirectional function (5) no symbol is linked because, while pressing the key n° 5, the writing changes at every pressure and becomes Output, Input, Manual and at last Bidirectional again;
- Block function (6) doesn't work “o”;
- - Emergency Door function (7) means closed door if indicates “•”, open door if indicates “o”.

Functions 4 and 7 are not always present, in this case the other functions arrange in diminishing order.

I - ISTRUCTIONS FOR USE

Control console

RIGHT SIDE OF DISPLAY

Fig.1

1 Turning on	• < >	B1
2 Metal	• Alarm	
3 Weight	o Metal	
4 Bio	o ↓	↵

In the right side of the display you can find all the informations about the system divided in this way:

First line:

On the first line are marked the door condition, the possible presence of a person inside the booth and the booth all the informations refer to.

The **symbols “<” and “>”** refer to the door conditions, normally written indicate the doors are closed; written in a reverse way indicate doors are open.

Between the symbols “<” and “>” there is an empty space, when a person goes inside the booth in this space appears the stylized drawing of a man.

Finally the letter “B” followed by a number indicates the selected booth.

Second line:

When an alarm is in progress, as Fig.1 shows, on this line appears the word “Alarm”.

Third line:

When an alarm is in progress, as Fig.1 shows, on this line appears the description of the alarm.

Fourth line:

When it is possible to scroll the pages of the main menu downwards, on the fourth line appears the word list sign “↓”, when the pages can be scrolled upwards appears the sword list sign “↑”.

If both word list signs appear, the menu pages can be scrolled in both directions. In Fig.1, the presence of the only word list sign “↓” indicates we all find on the first page of main menu.

Every time we move from a page to another page of the menu, the right side of the display doesn’t change, while the left side of the display changes.

Still on the fourth line, when there is an alarm which allows the “reset for one passage” such as in case of metal alarm in Fig.1, appears the word list sign “↵”. In this case, while pressing the key “Enter” the function “reset for one passage” works.

I - INSTRUCTIONS FOR USE

Control console

THE ALARMS

As soon as an alarm occurs on the display immediately appears a mask which indicates the type of the alarm in progress,

Working alarm
Weight
ESC ↵

pressing the **key ESC** you come back to the main menu without taking off the alarm, whereas pressing the **key ENTER** you can reset the alarm.

The alarms written on the right side on the display are in priority order:

- **Release:** it informs that a release key inside the booth has been pressed or that the function itself has been put into action by the console. This alarm allows the reset by using the key ENTER.
- **Emergency:** it informs that the function “Emergency opening of both doors” has been put into action by the console. This alarm allows the reset for one passage by using the key ENTER.
- **Metal:** it informs that a metal alarm is in progress. If between the word list signs “<” and “>” on the first line appears a stylized drawing of a man, it means that a person put the metal into alarm, otherwise an object has been left inside the booth. In any case this alarm allows the reset for one passage by the key ENTER.
- **Weight etc:** it informs that the weight inside the booth is higher than the settled threshold in the weight card or that the anti-hostage device counted more than a person inside the booth. . This alarm allows the reset for a passage by using the key ENTER.

No Network: it informs that the system is working with batteries because the tension network lacks. This alarm doesn't allow the reset.

THE KEYBOARD

On the keyboard will be whether alphanumeric keys or keys with word list signs. Some of these keys will have settled functions, other ones will have different functions according to the context they are used.

- The **keys B1, B2, B3** are used to select to which booth controls and information on the display refer to.
- The **key “*”** on red background is used to start up the function “EMERGENCY”; to quit press the **key ENTER**.
- The **key with the word list sign “danger”** on yellow background is used to start up the function “RELEASE CE”; to quit press the key ENTER.
- The **keys “ESC”, “OK” and “F1”** are actually reserved.

The **key “F2”** is used to start up the control “EMERGENCY FOR ALL BOOTHS”

I - INSTRUCTIONS FOR USE

Control console

ENTER KEY

The **key “ENTER”** is used to stop an alarm in progress.

Not every alarm can be stopped, so that the operator could understand when it's the moment to stop an alarm proceedings, on the fourth line appears the word list sign “↵”. The alarms “EMERGENCY” and “RELEASE CE” stop if the key “ENTER” is pressed, while in case of alarm “METAL” or ”WEIGHT” the key “ENTER” allows the reset for one passage.

USER MENU

To go in the **user menu** press the key F1.

Enter the password (password STD= 999999), press ESC to quit the menu.

A list of functions will appear on the console display, these functions can be modified according to the necessities.

To move from a function to another use the **keys “↑” and “↓”**.

With the **keys “+ -“** you can increase or decrease the numerical values.

With the **key ENTER** you can start or not the function with the symbols “•” – “o” and you can go in a sub menu when appears the word list sign “↵”.

Weight obj.	Gr.	290	(+ -) Function starts only with a specific weight card
→ Weight etc.	Kg.	120	(+ -) Function starts only with a specific weight card
Buzzer	•		(↵)
Date – hour	↵		(↵)
Summertime	•		(↵)
Change password	↵		(↵)

I - ISTRUCTIONS FOR USE**Control console**

For changing configurations to the function Date – Hour, select the function with the keys “↑” and “↓” and press **ENTER**.

The display will show the following menu:

Hour	→	11-54
Date		5-1-99
Tuesday		Solar
OK= save		↓ ESC

OK = save configurations

ESC = to return to the previous menu without saving configurations

↓ = shift the cursor

Numeric keys = to configure the parameter

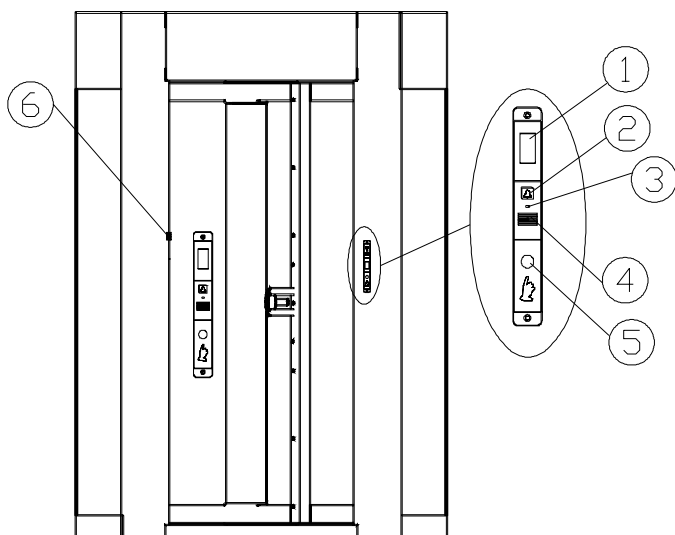
For changing configuration to the function Summertime, select with the keys “↑” and “↓”;
press the **key ENTER** to deactivate the function (the symbol marked wear the function change from • to ○).

For changing configurations to the function Change password, select with the keys “↑” and “↓” the function and press **ENTER**.

Enter the new password and confirm.

I - INSTRUCTIONS FOR USE

External front of the revolving door



Drawing n. 2

1) Revolving door electronic key (OPTIONAL)

Switching on: Acting on this key previously programmed, it is possible either to switch on or to switch off the booth.

Cleaning staff: With this key right programmed for this function, it is possible to block one door first and the other one then in order to let the cleaning staff to do their work. To put the booth in its normal position you have to take the key away from the inserter.

Mail function: The key, if programmed for such a function allows the external door opening, so that the operator can put the mail inside the booth. After the deposit of the key, taking the key away, the security door starts working normally again.

Other functions: It is possible to program one key in order to guarantee special functions according to the customer's requests.

The revolving door must be switched on from the switching off point

2) Red led

When the led is switched on the booth is switched off.

3) Interphone button

4) Microphone

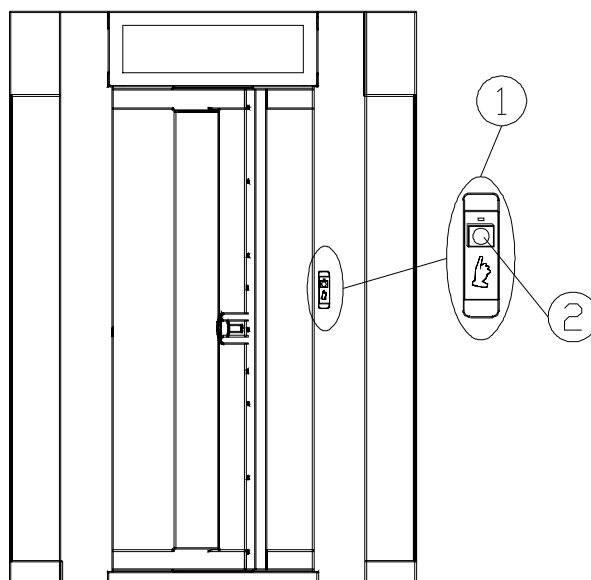
5) External door opening button

6) Mechanical key

By this key we can block the door and we can also switch on the booth.

Internal front of the revolving door

Drawing n. 3



1) Internal push-button panel.

2) Internal door opening push-button.

I - INSTRUCTIONS FOR USE**Forward exit procedure****STARTING THE REVOLVING DOOR:**

The booth can be switched on or switched off by the mechanical key placed on the external side of the booth in the upper part on the right (on request the booth can be switched on or switched off by the electronic key).

N. B. The operator must switch on the revolving door from the switching off point.

Use the mechanical key (on request the electronic key) both for the first entry and the last exit when an emergency door is not available. When we switch on the key the external and internal doors open consecutively.

Attention! We recommend to carry out the first entrance routine as above described because otherwise the external call buttons can remain disconnected.

NORMAL TRANSIT:

Once that the revolving door has been started one can select continuous rotation (for a large flow of customers) or rotation upon request. With rotation upon request it is sufficient to press one of the two call push-buttons placed on the side of the transit area. By doing this the turnstile shall effect a complete turn and therefore one can transit through.

TRANSIT IN ALARM:

When entering the revolving door with a weapon or with a metal object (similar to a weapon according to size and weight) the detection system receives an alarm impulse and the user is automatically invited to leave the revolving door and deposit the metal objects in the locker outside.

At this point the turnstile will invert the direction of travel by taking back the person and eventual objects or weapons left inside the transit area.

After having executed this procedure the revolving door is automatically reset and is ready for normal functioning.

TRANSIT WITH METAL OBJECTS:

In order to allow entrance to users carrying metal objects or weapons, it is necessary that:

- 1 - If by entering the user provokes an alarm impulse to the detection system he shall have to step outside and wait until the alarm procedure has been completed; at this point the switch-board operator can, by means of the key on the console, cut out from the circuit the metal detector and the user can transit through;
- 2 - The user identifies himself through the interphone, at this point the switch-board operator shall cut out from the circuit the metal detector by means of the key on the console in order that the user can transit through.

In either case, the metal detector is re-activated when the operator turns the key to position ON.

DOOR CLOSED TO THE PUBLIC:

During closing hours it is sufficient to cut out from the circuit the external call push-button and to activate the rotation upon request control.

Therefore, whoever wishes to enter the premises shall have to identify himself through the interphone and wait until the switch-board operator opens the revolving door.

I - INSTRUCTIONS FOR USE**Forward exit procedure****EMERGENCY:**

The turnstile can be disengaged from the motor, by turning the key on the console, allowing it to be manually pushed open.

MANUAL UNCLAMPING IN CASE OF EMERGENCY:

Should the revolving door not answer to the console controls anymore, due to break downs or other, it is necessary to proceed with the manual unclamping of the revolving door.

In this case it is necessary to open the small shutter placed above on the inside front of the revolving door

and pull the unclamping lever.

In order to re-establish normal functioning the lever has to be brought back to its forward position.

N.B. It is important to fulfill this operation after having deactivated the general switch off of the revolving door.

Should the revolving door not work as usual, ensure that the controls on the console are correctly positioned, i.e. NORMAL TRANSIT.

Strong tension rushes in the power mains of the revolving door or a prolonged power failure can induce the revolving door to act differently, for instance it could simulate the presence of a metal object inside the transit area.

In order to regenerate normal functioning switch off the revolving door with the key and after a few seconds switch it back on.

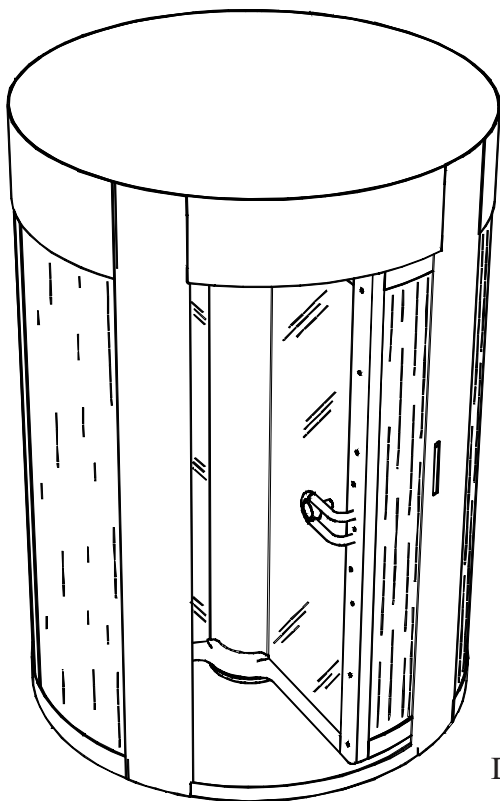
For other misfunctionings contact immediately our maintenance service at the following number:

TEL +39 (575) 9291 - 929216

FAX +39 (575) 929238

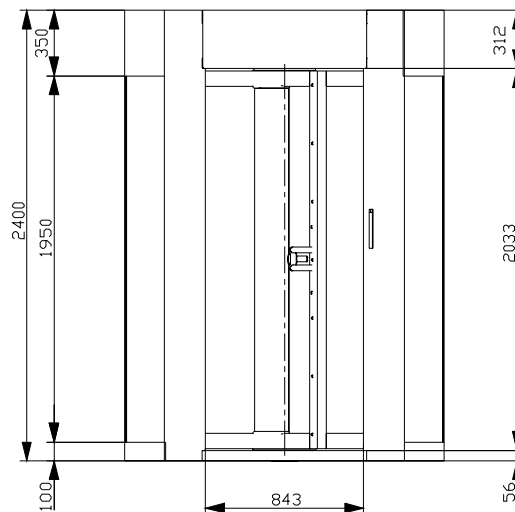
II - BODY OF THE SYSTEM

General view

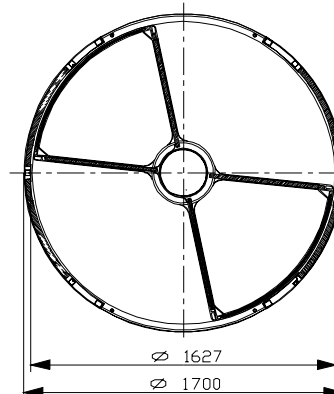


Drawing n. 4

Full draw



Drawing n. 5



Technical features

Electrical system

Power supply	220 ± 10%V - 50Hz
Maximun power absorbed	0,3 KW
Batteries	N°2 da 12 V 6 Ah
Management logic	Planing by a multiprocessor unit
Forwards and exits	24 + 24 espandibile
I/O analogical	8 + 2
Serial lines	1 (RS232) + 1 (RS485)
Engines	n° 1 - 60V

Structure

Frame	It is made with tubes of 30/10 mm and press-bendend sheet steel section
Tampons	Bullet-proof and shock-proof
Paint	Polyurethan with epixidic base

Performances

Transit speed	10 passages per minute
Working temperature	-10° ÷ +55° C

Dimensions and weight

Dimensions	Height	2400 mm
	Diametre	1700 mm
Transit box dimensions	Height	2000 mm
	Width	900 mm
Weight		1400 Kg.

I - ISTRUCTIONS FOR USE**Preliminary checks**

Before setting the revolving door it is necessary to carry out the following checks in the most careful way in order to avoid possible failures.

Possible floor defects can prevent the correct mechanic working of the system.

Verify that the ceiling of the room where the revolving door is placed is 280 cm high at least, (every revolving door is 240 cm. high) so that it can be guaranteed the entry into the upper part of the system in order to carry out the assembly and the maintenance of the revolving door.

Verify that there is not any source which can provoke the metal detector failure. (see M.D disturbance sources in this chapter)

It is important to keep the place where you put the system unchanged.

III - SYSTEM INSTALLATION

M.D. disturbance sources

The metal detector is a system which is sensitive to electro-magnetic parasitic disturbances, in order to reach the highest performances, at the highest sensibility, it is necessary to take some precautions when you use the structures in which it is placed.

There are two kinds of disturbance:

- 1) a kind of mechanic nature
- 2) a kind of electric nature.

INTERFERENCES OF MECHANIC NATURE

The metal detector owns a generator of electro-magnetic field able to induce, in its receiving section an electromotive force which, modified by passing metal objects, makes the system operate. The flux of the magnetic field invests, at a certain level, even the space surrounding the probe.

Near metal structures can introduce field absorptions which can be due to:

- A - The moving of considerable metal mass or mass placed particularly near the antenna.
- B - Fixed metal structures placed in the metal detector proximity can be suitably replaced by panels made of formica, bachelite, polycarbonate or other insulating materials.
- C - Door: if the doors are made of metal, they must be placed at a distance of at least 60 cm, the loop formed by the door metal profiles must be insulated. If the doors are made of insulating material (blindivis with wood etc) the precautions just mentioned are not necessary.
- D - Electro-magnetic loops formed by structural components (metal frames, glass doors, metal ceiling strips etc) which, because of movements or vibrations do not own a stable nature. If the loops are subjected to movement they must be distanced from the antennae or eliminated by insulating. If the loops are fixed, because they are formed by structures and draw pieces which surround the metal detector, they must be insulated by an appropriate split or made electrically stable by rivettings or electrical bypass connections (in case of varnishing remove the varnish layer on the surface which is in contact with screws and use notched washers).

ELECTRICAL INTERFERENCES

They depend on the proximity to the antennae of power supply cables (electro-magnetic field generated by alternating currents) or impulsive sources of electro-magnetic interferences (electric motors with a high ignition absorption and related power supply cables fluorescent lights, emergency generation, teleprinters, air conditioning units, remote control switchers).

- A - Power supply cables: they should be placed at a distance of 20 cm at last from the sensitive probe, particularly from the receiving one (the distance depends on the circulation current) and twisted with a pitch which cannot be greater than 2.5cm (if it is not possible they must be inserted into a screening tube made of ferrous material 2mm thick at last).
- B - The impulsive sources must be removed, eliminated or screened.
 - b1- Fluorescent lights: the lights and their related reactors must be removed from the metal detector and particularly from the receiving probe marked by the red stamp. Where it is possible you must substitute the fluorescent lights with filament lights.
 - b2- Electrical locks: If they are placed near the probe of the metal detector we recommend the use of a kind supplied with screening. It is better to use motorised locks with a lower starting point current.

III - SYSTEM INSTALLATION**Unpacking**

Packing parts (such as plastic bags, polystyrene, nails, screws, woods) must be kept away from children's reach as they can be extremely dangerous.



Collect the above mentioned materials in special dumps.



Once ended the unpacking before assembling the revolving door keep its parts in a clean and dry place.

Only skilled staff, authorized by SAIMA SICUREZZA S.P.A., can carry out the installation and the assembly of the revolving door. Skilled staff must follow what stated in this installation and assembly handbook.

After assembling, the assembler together with the customer, will carry out the working test and fill the test form where the customer will sign if the test is positive.

A qualified technician must carry out the test as well as the regulation and he must put the revolving door in running order.

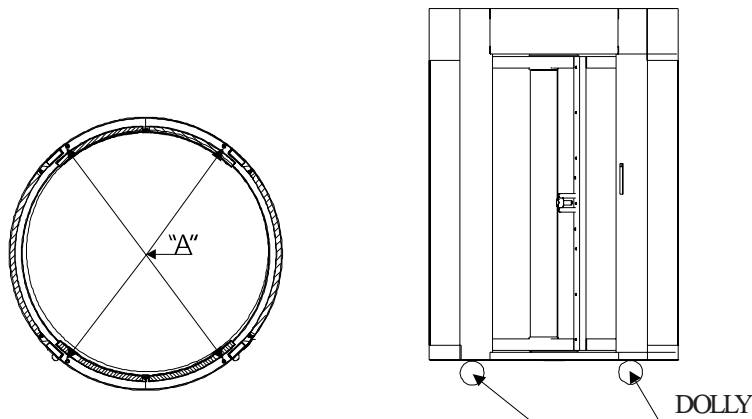
III - SYSTEM INSTALLATION

Installation and test

- 1) Free the revolving door from the external protection packing, take the board which is inside it and control the console is disconnected from the cable of the revolving door.

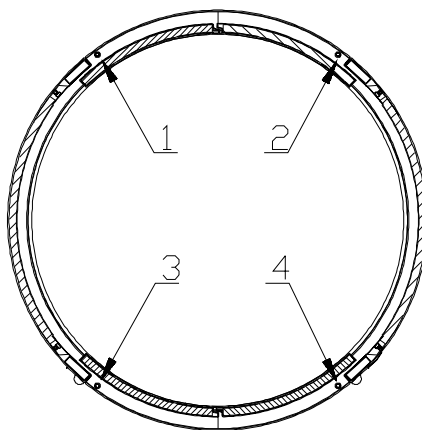
- 2) Place the revolving door where established, arrange the external side in direction of the external side of the local. To move it use a crane hanging its cables to the four up edges "A" of the revolving door, the pinch bar and the rolls placed under the base - (draw 6).

Drawing n. 6



- 3) Stabilize the revolving door on the floor evoding it moves, even using its apron feet (placed under the taps of the gum floor draw 7). Stability is indispensable for a good running quality of the revolving door. Attach any frame directly in the revolving door, pay attention do not insert in it the screws for more than two centimeters.

Drawing n. 7

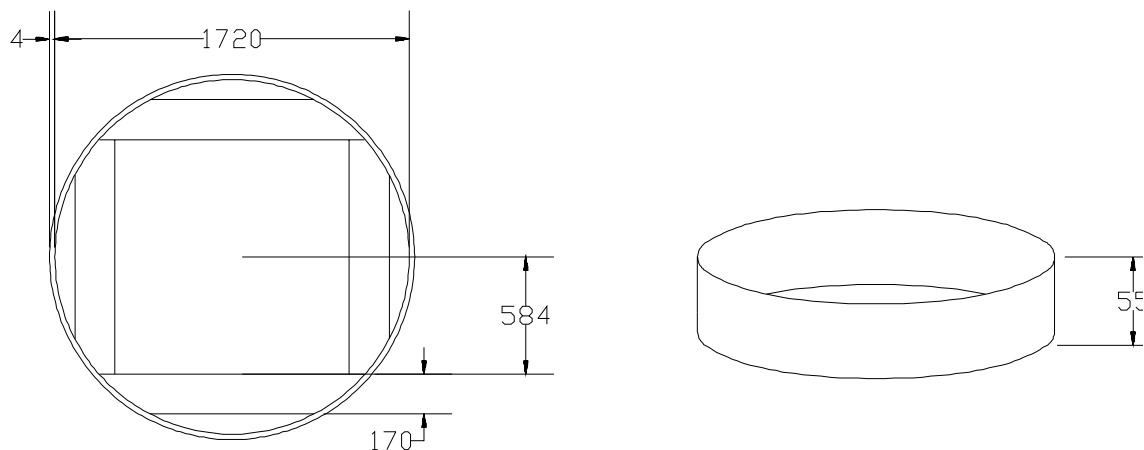


III - SYSTEM INSTALLATION

Installation and test

EMBEDED INSTALLATION (OPTIONAL):

- 1) Follow the indications previously described at the point N 1 of the leaned installation.
- 2) Choose the place where you want to put the the revolving door.
- 3) If the room is a new one it is important to put the loom supplied by SAIMA (see picture n.8) and lay the cement and floor until you cover the whole framework. If the room is not a new one it is necessary to make a hole in the floor with a diameter as long as the loom and then to embed the loom.



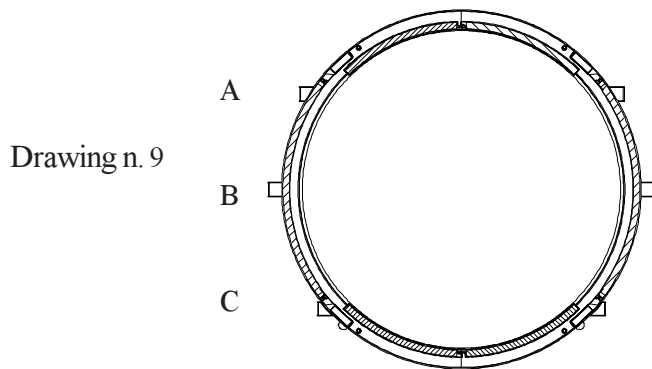
Drawing n.8

- 4) Embed the revolving door in the base
- 5) Cover the edge of the loom surrounding the revolving door with profiles made of plastic supplied by SAIMA.

III - SYSTEM INSTALLATION

Lateral frames application

There are three different opportunities of anchoring the revolving door to the plugging structures (see drawing n.9).



N.B. When you place an order, it is very important to know the place where the revolving door will be placed and the kind of installation in order to give the opportunity of fixing the anchoring to the revolving door.

The indicated profiles can be requested directly to SAIMA when the installation is carried out by the customer.

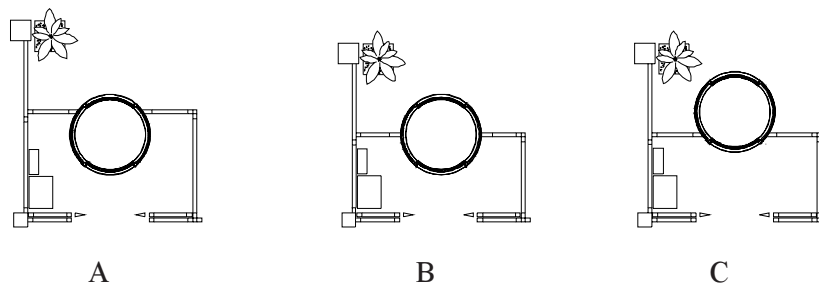
- Profile A
- Profile B
- Profile C

The procedure of the frames installation is the following:

- 1) Place the revolving door on the established place.
- 2) With the completion frame stand against the fixed profiles of the revolving door..
- 3) Drill the frame and the profile at the same time with a drill.
- 4) Insert some screws of suitable size.
- 5) Tighten firmly the screws.

The operation mentioned above must be carried out very carefully so that you cannot damage the particularly aesthetic finish of the revolving door.

Some example of installation:



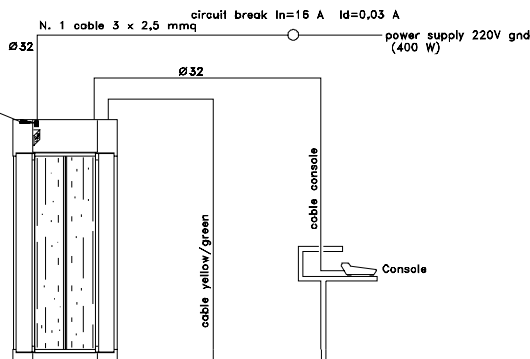
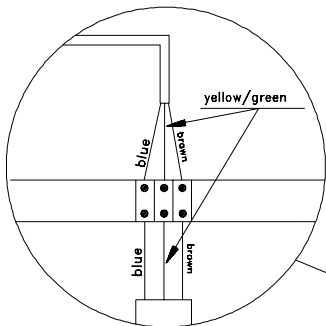
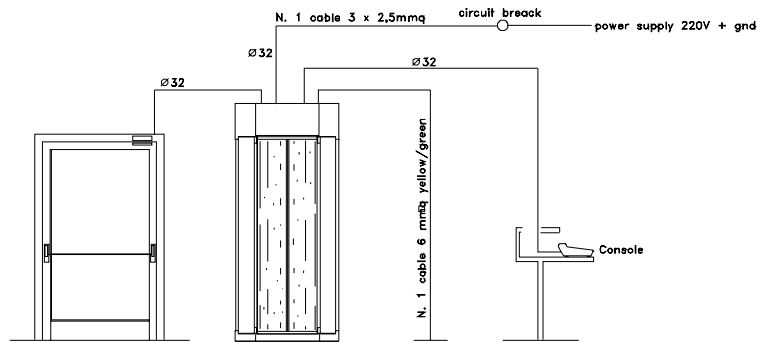
We recommend if it is possible to carry out the installation C.

III - SYSTEM INSTALLATION

Wiring

- 1) Bring the feeding cable from protected with circuit breaker $I_n = 15A$ $I_d = 0.03A$ the general board of the bank until the roof of the revolving door, connect it to the terminal board which is placed in the back, behind the inspection panel (see draw 5 and the particular draw n.10 - n.11).

Drawing n. 10



Drawing n. 11

- 2) From the up side of the revolving door arrange a telephonic cable connecting the revolving door itself to the operator's working place where will be the console, using a duct of a diameter of 32 mm. Insert the cable connector in the general console.
- 3) Connect the console to the cable of the revolving door.
- 4) Free the wings inside the revolving door, removing the nylon protections and the adhesive tape or in same case remove the locks placed between the wings and the floor of the revolving door.

III - SYSTEM INSTALLATION

Wiring

- 5) **Arm the general switch of the bank control board which feeds the revolving door using the preferential line. Then arm the general switch of the revolving door.**
- 6) **Switch on the revolving door by the ignition key placed in the console and in the external front of the revolving door.**
- 7) **Now the revolving door is ready to be tested.**

The revolving door is ready to be used.

Testing

Transit simulation

- First entrance
- Last entrance
- Emergency
- Transit without metal
- Transit with sample weapon
- Lack of current
- Different functions as requested according to technical check

Metal detector

- Program and sensitivity
- Metal detector inconvenience simulation
- Message and vocal synthesis sound check

Light signals

- Check exchange light signals
- Check button working
- Check interphone working

Deactivation and setting aside

If the revolving door is not used for a long period it is necessary to cut the cable connecting the revolving door to the power source paying attention to leaving at least 30 cm of the cable, in this way it will be easier to set it again.

We recommend the operator to put the revolving door in a dry and sheltered place and to insulate any component from the floor or the walls.

Please remember that the plant must be disassembled only by skilled and authorized staff.

Appendix

MAINTENANCE

SYSTEM HANDBOOK

Carry out six-monthly the following checks:

KIND OF CHECK	CHECK DESCRIPTION
Electrical exchange	Check there are no liquids seeped through Check there are no heated parts Check feeding card leds Check system working without feeding network (only the inernal booth light must be switched off)
Control console	Working selector switches (commutators) control Working switches control Working led control Check and set if necessary the intercommunicating system
Metal detector	Noise test with transit of people without metal objects
Push-button panel and roof lamp	Check shining signaling Check push-button and ring-bell Check microphone and responder, set volume if necessary
Accident prevention	Emergency release tests Maximun pair control Check pneumatic frame and accident prevention sensors sensitivity
Mechanisation	Bock arms control Check engine and linkeages noise Clearance on the mobile parts in static condiction Clearance on the mobile parts in dynamic condiction Check the carriages wheels glide plane and wear Check there is no oil loss in the motor reducers

N.B. This handbook is an integral part of the system and it must be kept near the booth.

