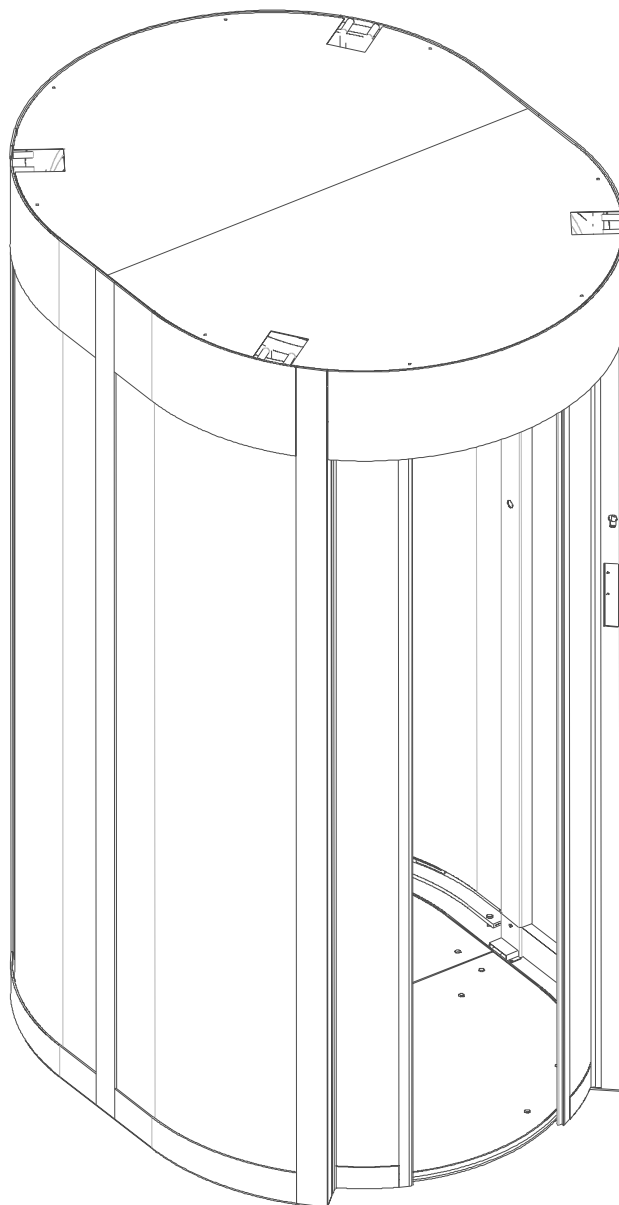# MINISUN LIGHT

USE HANDBOOK

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C E

Saima Sicurezza S.p.A. is a company belonging to the Saima Group born in 1977. Since 1997 the company has obtained the UNI EN ISO 9001 certification.

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.
No part of this manual can be reproduced in any form or use, mechanical or electronic, without written authorization of SAIMA SICUREZZA Spa.
Drawings and descriptions in this manual are subject to variations and mpdifications without previous notice.

Model   Function   Registration number

Production department Saima Sicurezza S.p.A. Indicatore AREZZO.

Date ....

Tested by ....

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INTRODUCTION

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 Saima Sicurezza S.p.A.

Keep this manual in a safe place for future consultation

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.

Saima Sicurezza Spa reserves the right to make all the necessary modifications in order to improve the booth's performance.

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.

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.

SAIMA SICUREZZA S.P.A. INDICATORE (AR) ITALIA Tel. 0575-9291	CE
SERIAL NUMBER	VOLTAGE (V)
YEAR	FREQUENCY (Hz)
MODEL	POWER (Kw)
WEIGHT (Kg)	MAX FORCE (N)

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 Saima Sicurezza Spa service.

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

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.

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).

FUNCTIONS AND USE

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 <u>night closing</u> 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.

Serial console

The serial console is equipped with all the main functions used to program the booth's working modes.

The serial console can be used both as the main console or as a secondary console connected to the digital console.

The functions can be enabled or disabled with a button: the led signalling will indicate its mode.

SEE FIGURE 1A 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.

Digital control console with display
(optional)

SEE FIGURE 1B DIGITAL CONSOLE

Main menu

During the system's normal functions the main menu will be displayed on the user's screen.

This is divided in two parts: on the left the commands that can be sent to the booth and on the right a summary of the system's condition.

I° Diagram on the display

```
1 Acc.    •  │ <>      B1
2 Metal   o  │
3 Weight  •  │ gg. mm. aa.
4 Bio     o  │ ↓       hh:mm
```

II° Diagram on the display

```
5 Bi-direct. •  │ <>      B1
6 Block      o  │
7 Emerg. B.  •  │ gg. mm. aa.
8 Semi-aut.  o  │ ↑↓      hh:mm
```

- The number (0-8) written before the function indicates the button that is associated to it.

- <u>The dots that appear after the function indicate if they are active</u> "•" <u>or not</u> "o".

- The variations for each parameter occurs by pushing the button to which they refer.

- The pages can be viewed by using the buttons "↓" and "↑"

<u>**The functions that are present are:**</u>

- **On** function (1): it allows to turn on or off the booth;
- **Metal** control (2): it allows to detect the passage of metal objects inside the booth;
- **Weight control** function(3): it allows one person to transit;
- **Bio** function(4): it allows a person to transit by recognising the digital fingerprint (if requested).
- **Bidirectional** function(5): no led is associated to it. By pushing button 5 repeatedly the function changes all the time becoming: entrance and exit BI-DIRECTIONAL transit - EXIT only exit transit - ENTRANCE only entrance transit - MANUAL entrance and exit transit, the booth's commands are controlled by the operator on the console.
- **Block** function (6):It allows to block the passage regardless of the doors' position.
- **Emergency door** function(7) (*if there is an emergency exit next to the booth*): it allows to open the emergnecy door.
- **Semi-automatic** function (8): opening of the first door (in entrance or exit mode) in automatic, opening of the second door by the console operator.

The right side of the display shows the system's information subdivided in the following way:

First line:
The symbols "<" and ">" refer to the doors condition, if they appear like in the figure the doors are closed, in reverse they indicate that the doors are open. In between the symbols "<" and ">" there is an empty space. When a person enters the booth a designed figure of a person appears in the space for last a letter "B" followed by a number, it indicates the selected booth (should there be more than one booth).

Second line: Empty

Third line: Gives the date

Fourth line: Shows the menu's arrows and the time: previous set-up. Arrow pointing down: next diagram.

Keyboard

On the keyboard there are alphanumerical keys and keys with symbols. Some of these keys have specific functions, while other keys have different functions depending on the context (ref. fig. 1B).

② • **Keys B:** the commands and information on the display refer to the selected booth.

⑧ • **The key "∗"** with the red background is needed to activate the "*EMERGENCY*" function; To exit this mode press ENTER.(Ref. Chap."ALARMS").

⑨ • **The button with the "danger"** sign with yellow background is used to activate the "UNBLOCK CE". To exit this mode you must press ENTER.(Ref. Chap." ALLARMS").

⑤ • **The buttons "ESK", "OK"** and **"F1"** are needed for the *"SETUP"*.

⑤ • **The key F2** enables the command "*SIMULTANEOUS EMERGENCY FOR ALL THE BOOTHS*" (enabled only if there is more than one booth). To exit this mode press ENTER.

⑥ • **The "ENTER"** button is used to end an alarm in progress (Ref. Chap." ALARMS").

Alarms

When there is a booth alarm the display will immediately show what type of alarm is in progress.

During an alarm we can return to the menu by pressing the ESC button without stopping the alarm and the display indication. By pressing ENTER the booth's functions are reset.

• **Unlock**: it indicates that the unlock button has been used from inside the booth or from the console.

• **Emergency:** It opens both doors at the same time.

• **Metal alarm**: it signals that a metal alarm is occurring. This alarm allows a reset for one passage by using the ENTER key. Once this passage in completed the Metal Detector Control will automatically go on again.

• **Object in the booth**: it indicates an object left in the booth. This alarm allows a reset for one passage by using the ENTER key. Once this passage is completed the Object Control will automatically go on again.

• **Excessive weight**: it signals that the weight inside the booth exceeds the set threshold on the weight card or that the anti-hostage system has detected the presence of more than one person inside the booth. This alarm allows a reset for one passage by using the ENTER key. Once this passage in completed the Weight Control will automatically go on again.

•**Power supply missing**: it signals that the system is working with batteries. This alarm does not allow a reset. By pressing ESC we will see on the right of the display the following words: No power line.

User menu

To enter *user menu* press the **F1 key**.

Enter the password (set password = 999999), ESC to exit the menu.

A list of functions will appear on the console's display. These functions can be modified to suit your needs.

With the keys **"+ - "** we can increase or decrease the numerical values.

With the ENTER key you can enable or disable the functions with the **"•" - "o"** and enter the sub-menu when the **"↵"** appears.

Display	Obj.weight.Gr.	8000	(+ -)	**Function is active only with the specific weight card**
	→ Exc.weight. Kg	120	(+ -)	**Function is active only with the specific weight card**
	Buzzer	•	(↵)	(console key tone)
	Date – time	↵	(↵)	
	Standard time	•	(↵)	
	Password change	↵	(↵)	

DATE/TIME

To change the settings of the **Date - Hour** function, select the function with **"↑"** and **"↓"** symbols and press the **ENTER** key.

The following menu will appear on the display:

Display	Time	→11 – 54
	Date	5 – 1 – 99
	Tuesday	Standard time
	OK = save	↓ ESC

OK = save the new settings

ESC = go back to the previous menu without saving the settings

↓ = to move inside the menu

Number keys = to set the desired values

STANDARD TIME

To change to **Standard / Summer** time (automatic change UE)

- select STANDARD TIME with the **keys ↑↓**;
- press the **ENTER key** to clear the function (the symbol next to the function changes from ● to O).

LANGUAGE SELECTION

- Press **F1**- digit numbers **999999** on the password - press **Enter** - select the desired language with the menu key **7** - press **Enter** after choosing - Press **ESC.**

| *Display* | ENGLISH | |
| | OK = save | ↓   ESC |

OK = save the new settings

ESC = go back to the previous menu without saving the settings

↓ = to move inside the menu

Number keys = to set the desired values

Menu protection

To change the settings of the Menu Protection function, select the function with **"↑" and "↓"** symbols and press the **ENTER key.**

The following menu will appear on the display:

→	On	o
	Metal control	o
	Weight control	o
	Bio control	o
	Autom. Manual	o
	Block	o
	Emergency door	o
	Semiautomatic	o
	Emergency	o
	External button	o
	Continuous rotation	o
	OK = save ↑↓ ESC	

Display

OK = save the new settings
ESC = go back to the previous menu without saving the settings
↑ ↓ = cursor movement that selects the desired function within the menu

IMPORTANT ! The functions selected can be enabled or shut down even with the console's key in the OFF position.

The functions "External button and constant rotation" are enabled only for ROTANT booths.

Password change

To change the settings of the Change Password you must use the "↑" and "↓" symbols to select the function and then press the ENTER key.

Insert the new password and confirm it.

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), we will see written on the right side of the display: "intercom"; and under: "B<number>"; by pushing a number we can connect with the desired booth and a wiring will appear: "connected <number>".

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. (When installed a Digital Console will show on the display the following notice:
"ANTIHOSTAGE ALARM" at the same time an acoustic sound will be heard).

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 (*Enter* button on a digital console) 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 (*fig. 1A* - *fig. 1B*) 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:

TEL (+39) 0575 9291 - 987116
FAX (+39) 0575 929238

SYSTEM INSTALLING

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 SAIMA 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.

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 Saima Sicurezza S.p.A. 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 Saima Sicurezza S.p.a., 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.

Booth placing

GROUND FIXING

- 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 is equipped with 2 supports under the walls for ground fixing. The fixing must be done with the supplied anchor screws.
  If it is not suitable to use anchor screws on certain floors we suggest you mount metal poles with an M8 thread in correspondence to the fixing holes "A".

SEE FIGURE 10 FIXING HOLES AND BOOTH LEVELLING

To fix proceed as follows:

1) Put booth doors manually (external-internal side) in closing position and remove the lower curved horizontal glass stopper (see fig. 9). This can be done by removing the fixing screw and letting the stopper slide horizontally to a side until you can remove it from the slot.

2) Drill a hole in the floor using a vidia drill bit Ø 14 in correspondence to the holes "A".

3) Insert the anchor screws in the holes and tighten.

4) Follow the same procedure as shown in points 1, 2 and 3 for the other side.

5) Move the doors manually to make sure that they run smoothly.

6) The booth has adjustable levelling feet. Should it be necessary loosen feet "B" with a 6mm spanner until levelled then tighten screws "B" (see fig. 10).

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

7) Mount the lower curved glass stoppers by placing them in the slot and letting them run until they match with the fixing holes.

Placing the lateral frames

Placing the lateral frame is as follows:
1) Position the booth in the desired place and set it firmly (see "placing booth).
2) Place flexible frames as shown in the drawing.

SEE FIGURE 13 FRAME ANCHORING

3) Drill holes on surface with proper drill bit (to be tapped).

Attention: do not drill over 1 cm in depth and drill
only where shown in the picture.

4) Use screws of the right size and tighten.

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 14 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 Saima 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.

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 Saima Sicurezza S.p.A. for the technical manuals.

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 LIKETO REMIND YOU THAT THE DISSEMBLING CAN BE DONE ONLY BY QUALIFIED TECHNICIANS THAT HAVE BEEN AUTHORISED BY THE MAKER

MAINTENANCE

System book

Verify the following every six months:

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.

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.

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.*

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* |
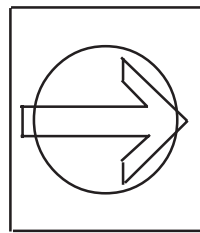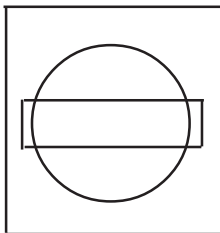
to place on booth
to show the direction

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 "Enter" on the digital console and "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 the serial console and the digital console.
	
	4) The booth is empty and none of the above conditions apply 1-2-3:
	    4.1) Push "Enter" on the digital console and "Reset" on the serial console.
	
	5) The radar placed over the passage (part. n°3 fig. 2 and n°2 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 pressing 7 at the same time for a second.
	    The booth is reset, but you must call the Saima assistance service.
	
	6) Call the Saima assistance service.

The door does not work properly.	1) Verify the command settings on the console. 2) Do a console Reset (only serial console)

GRAPHIC VIEW

FIGURE 1A SERIAL CONSOLE
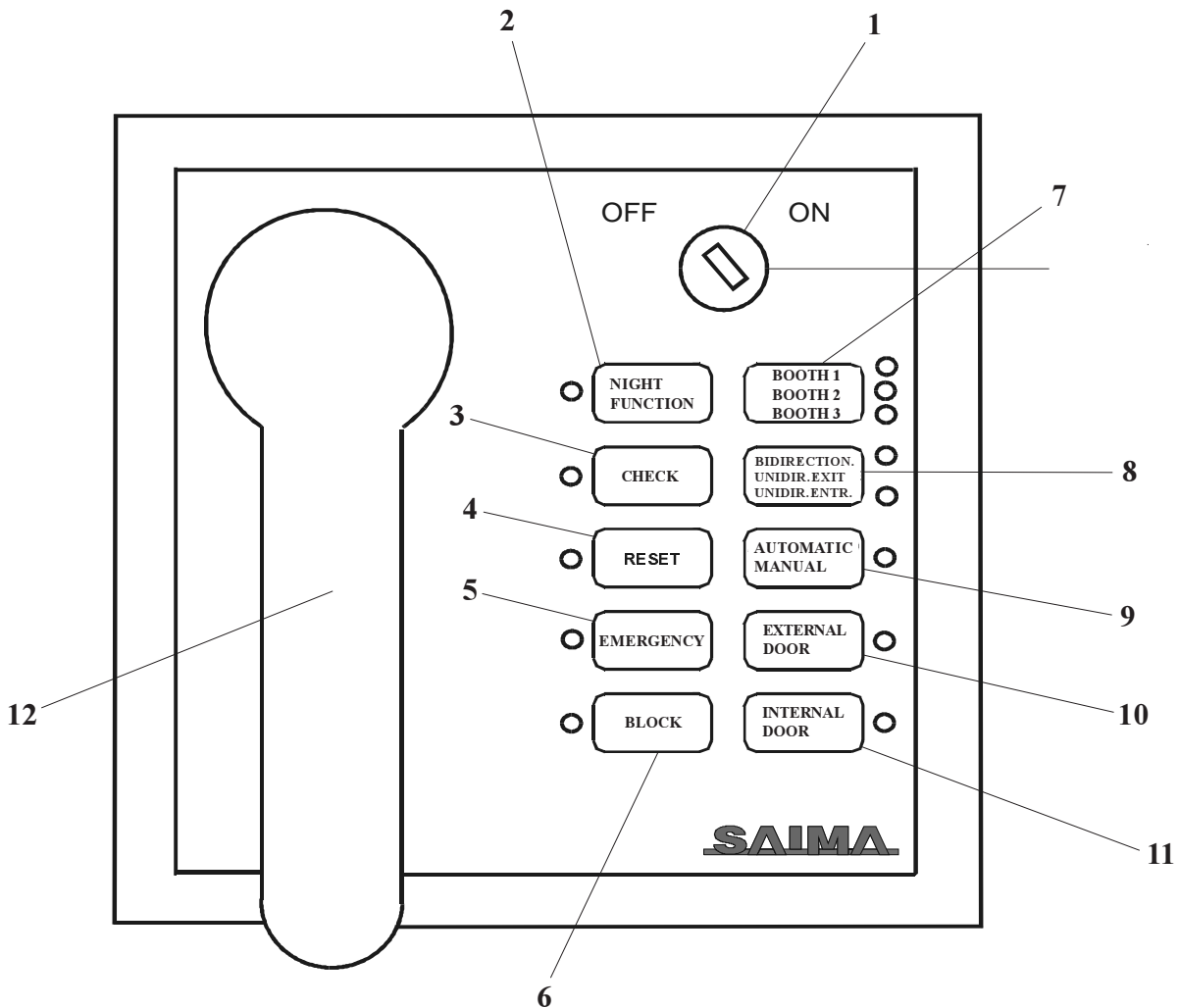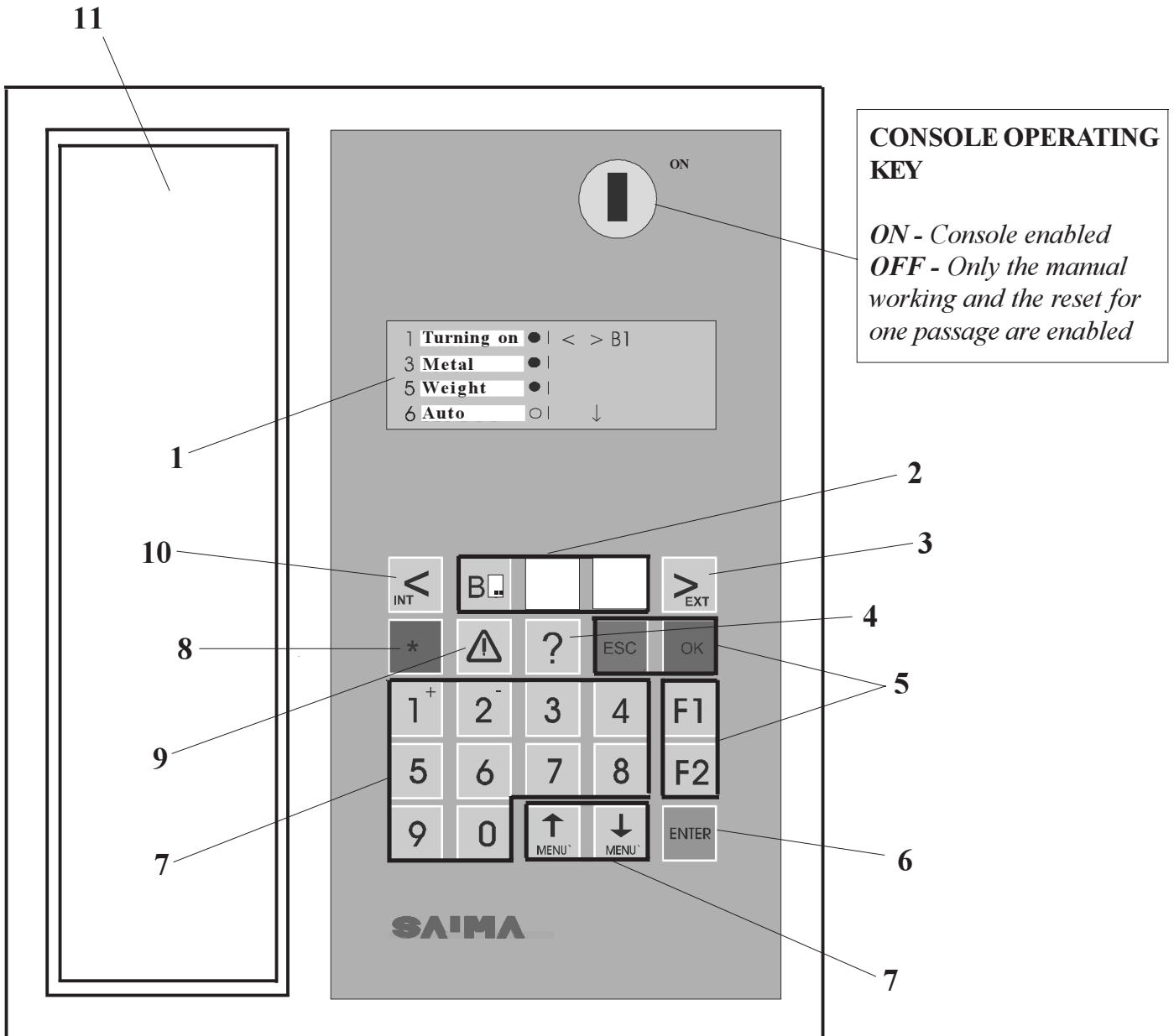

1 - ON/OFF console key
2 - ON-Night function
3 - Switch (Metal Detector)
4 - Reset
5 - Emergency
6 - Block
7 - Booth1, booth 2, booth 3.
8 - Bi-directional/mono exit/mono entrance
9 - Automatic/Manual
10 - External door
11 - Internal door
12 - Intercom handset

ENABLE CONSOLE KEY

ON- Console enabled

*OFF-Only manual function enabled
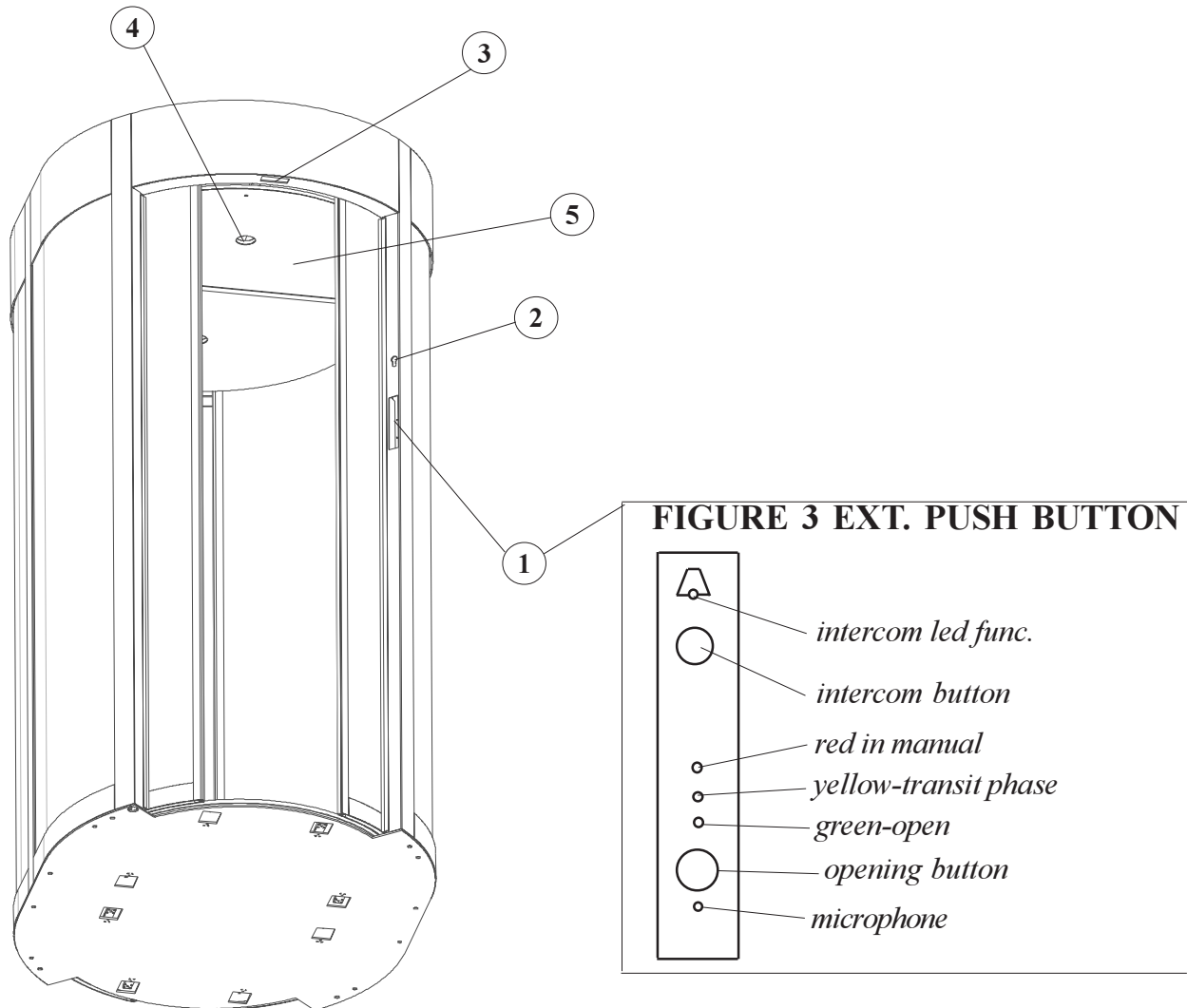and Reset for one passage*

FIGURE 1B DIGITAL CONSOLE

11

CONSOLE OPERATING KEY

ON - *Console enabled*
OFF - *Only the manual working and the reset for one passage are enabled*

1 **Turning on** ●| < > B1
3 **Metal** ●|
5 **Weight** ●|
6 **Auto** ○| ↓

ON

1 - Display
2 - Booth selection B
3 - External door manual opening
4 - Multi-function button
5 - Setup buttons
6 - Reset
7 - Menu view function
8 - Emergency
9 - Unlock CE
10 - Internal door manual opening
11 - Intercom phone

FIGURE 2 EXTERNAL SIDE VIEW

4

3

5

2

1

FIGURE 3 EXT. PUSH BUTTON

intercom led func.

intercom button

red in manual

yellow-transit phase

green-open

opening button

microphone

1) - external push button
2) - mechanical lock
3) - accident prevention radar
4) - light
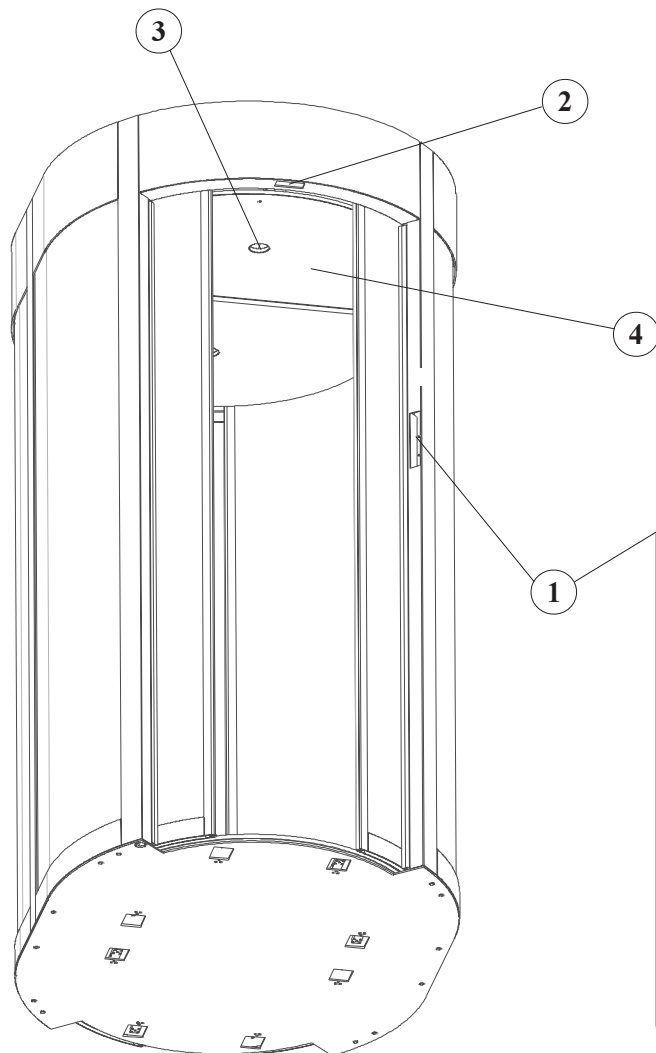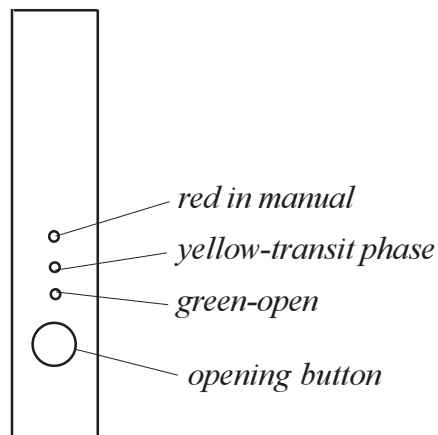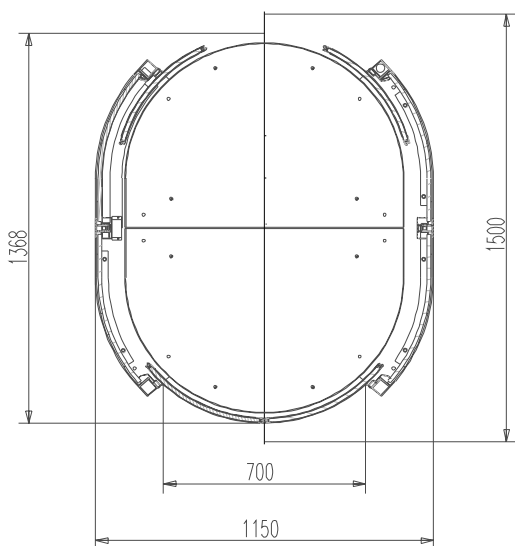5) - ceiling (can be checked)
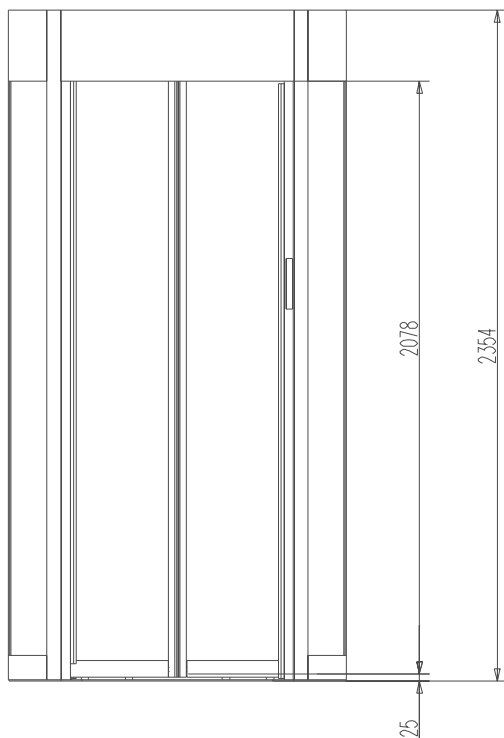
FIGURE 4 INTERNAL SIDE VIEW

FIGURE 5 INT. PUSH-BUTTON

red in manual

yellow-transit phase

green-open

opening button

1) - internal push button
2) - accident prevention radar
3) - light
4) - ceiling (can be checked)

FIGURE 6 TECHNICAL FEATURES

Electrical system

Power supply:	*220± 10%V - 50Hz*
Maximum power consumption:	*0,2 KW*
Batteries:	*n°2- leak-free led 12V- 2Ah aligned*
Inputs and outputs:	*20 + 16*
Lines:	*n°3 RS232 (+ n°1 RS232 Reserved) n°2 RS 485*
Motors:	*n° 2 - 24 VDC - 150W*
Main board management:	*microprocessor programmable*
Autonomy without power:	*60 minutes with 200 passages*

Structure

Frame:	*Curved steel sheets 40/10 mm.*
Sides impact-absorbers:	*Layered curved glass 13/14mm (6+6) - PVB 0,76 (or other).*
Finish:	*Finished with RAL paint, smooth or embossed - covering in steal/aluminium or other.*

Performance

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

Dimensions and weight

Dimensions:	*Height*	*2355 mm*
	Length	*1500 mm*
	Width	*1150 mm*
Passage dimensions:	*Height*	*2080 mm*
	Width	*700 mm*
Weight:	*600 Kg*	

30

FIGURES 7A-7B BOOTH MOVEMENT

Fig.7A

"A"

Fig.7B

ROLLERS

31

FIGURE 9 GLASS STOPPER

CURVED
HORIZONTAL
GLASS STOPPER
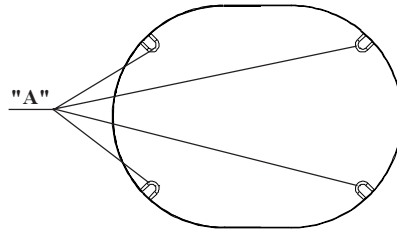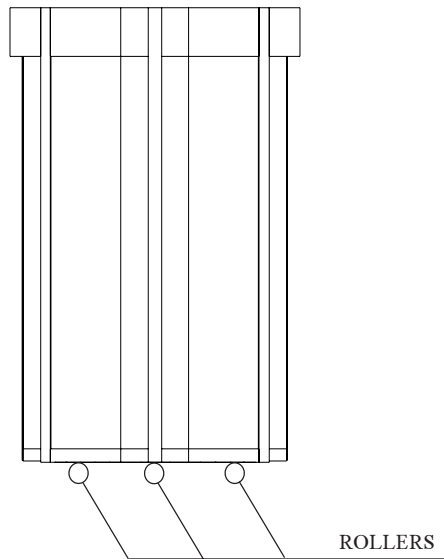
COVERING FOR
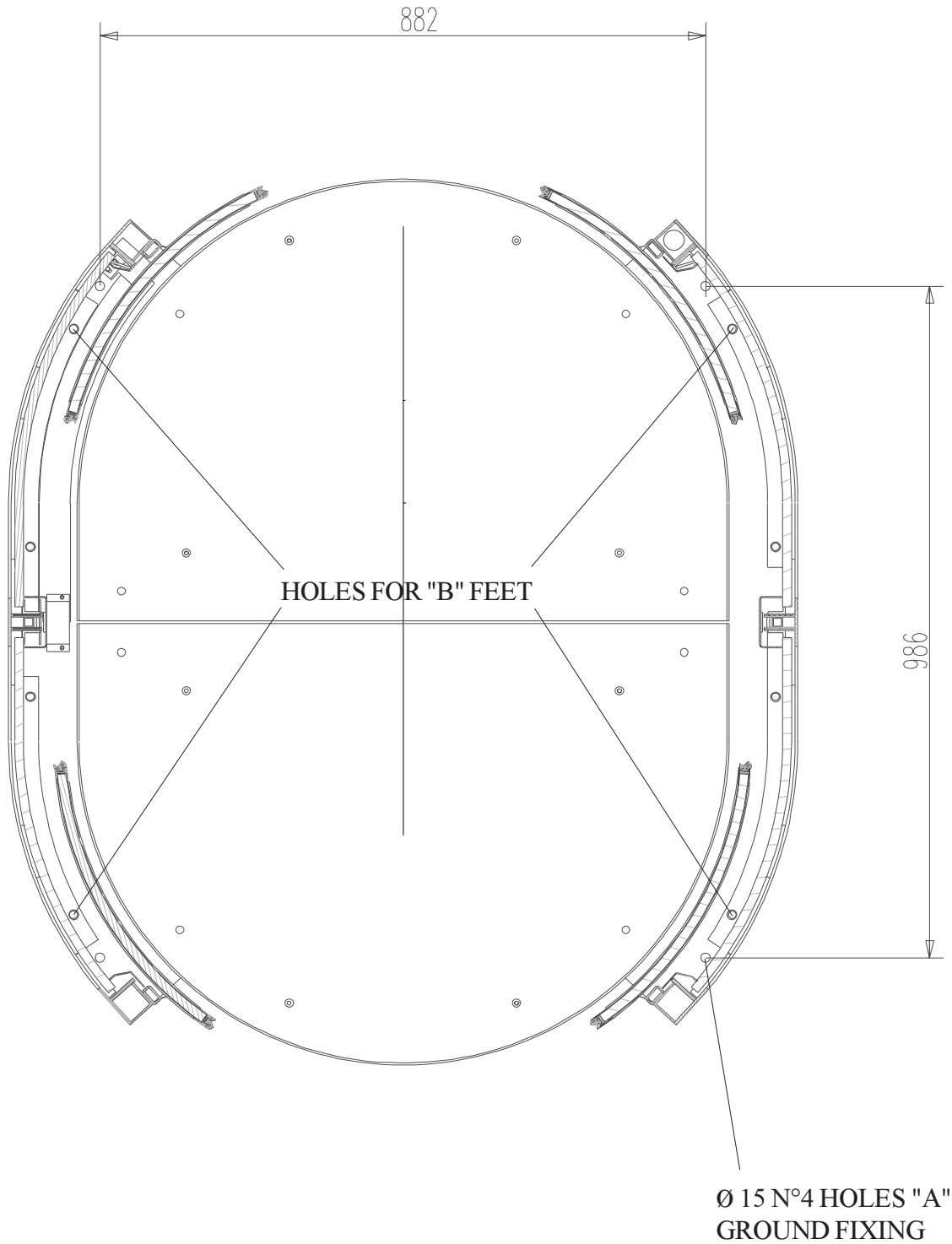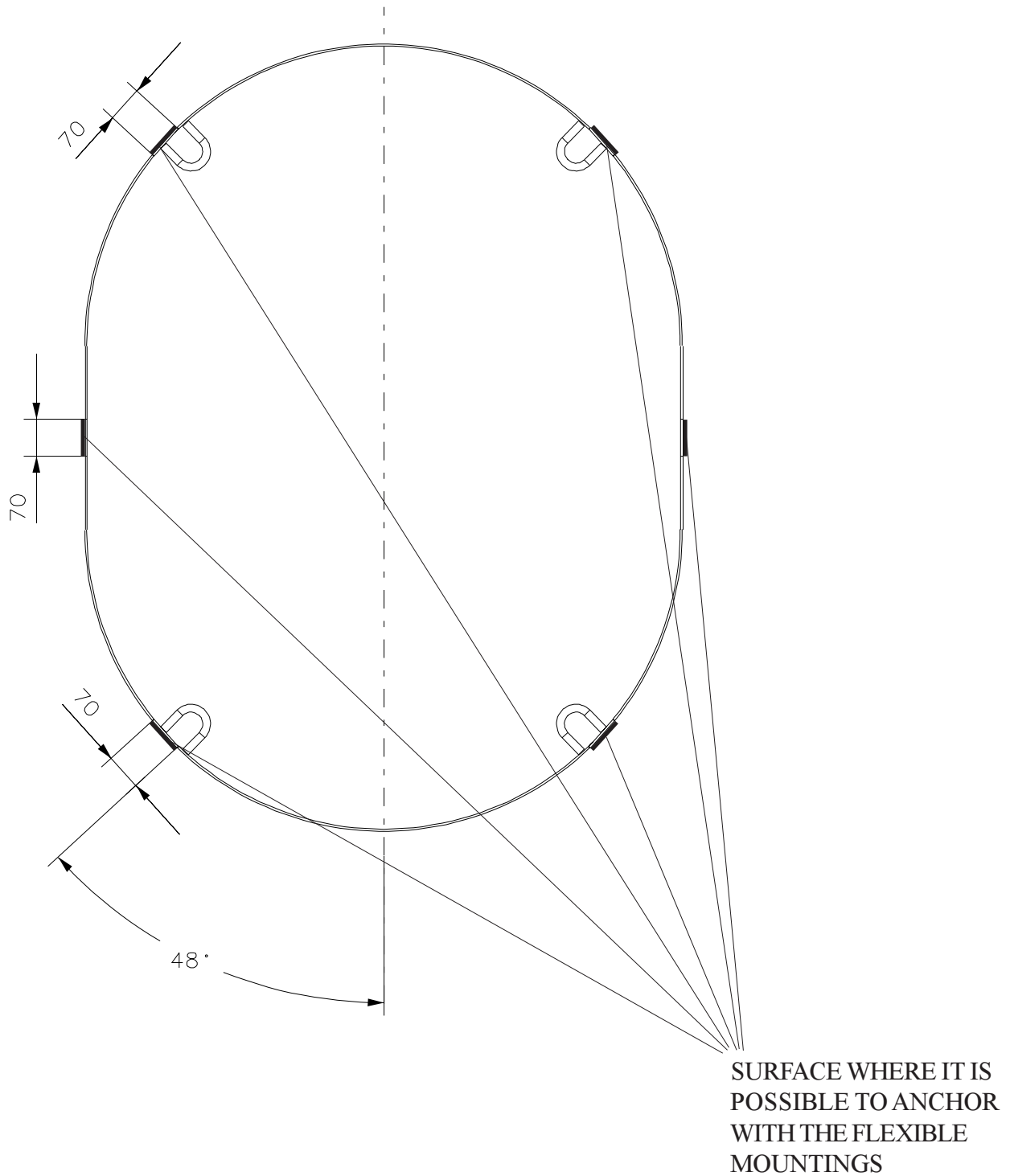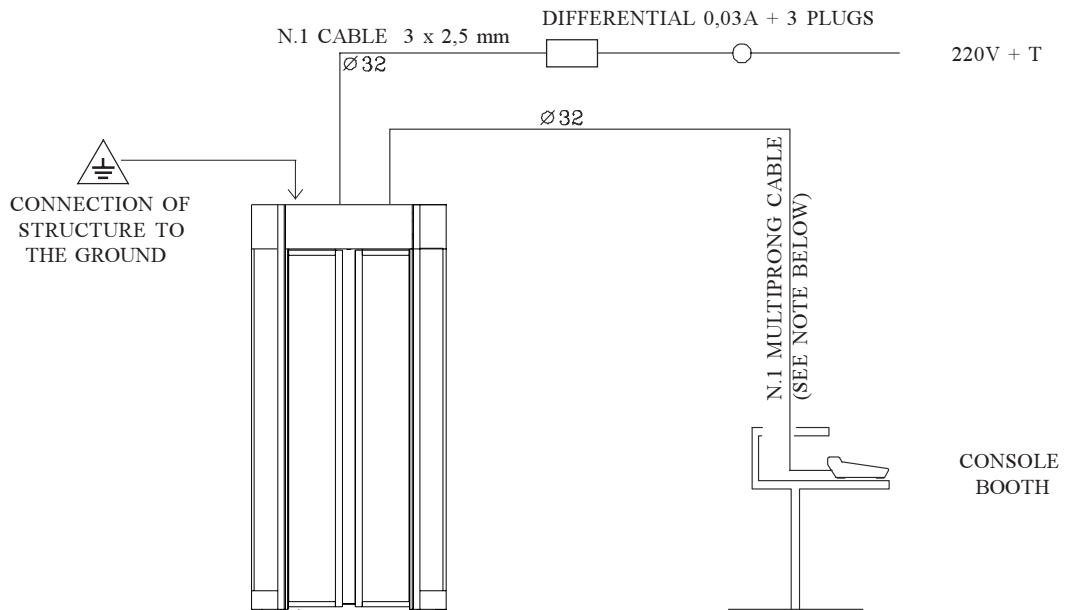LOWER GLASS
STOPPER

FIGURE 10 FIXING HOLES AND BOOTH LEVELLING

882

986

HOLES FOR "B" FEET

Ø 15 N°4 HOLES "A"
GROUND FIXING

FIGURE 13 FRAME ANCHORING

70

70

70

48°

SURFACE WHERE IT IS
POSSIBLE TO ANCHOR
WITH THE FLEXIBLE
MOUNTINGS

FIGURE 14 WIRING

N.1 CABLE 3 x 2,5 mm

DIFFERENTIAL 0,03A + 3 PLUGS

Ø32

Ø32

220V + T

CONNECTION OF
STRUCTURE TO
THE GROUND

N.1 MULTIPRONG CABLE
(SEE NOTE BELOW)

CONSOLE
BOOTH

SERIAL CONSOLE : CABLE AWG CAT.5 4 COUPLES.

DIGITAL CONSOLE : CABLE 2 x 0,50 + 6 x 0,22.

FIGURE 15 CABLE PASSAGE HOLE

INTERNAL SIDE

CABLE
PASSAGE
HOLE

395

560