USER MANUAL

ETH
ETERNA
HOSPITAL
16005

Automatic pedestrian sliding door for hospital environments

ITALY MADE
WWW.ITALYMADE.IT

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AZIENDA CERTIFICATA
SISTEMA QUALITÀ
UNI EN 9001:2008

C E

TRANSLATION OF THE ORIGINAL INSTRUCTIONS

LABEL

RECOMMENDATIONS

THIS INSTRUCTION MANUAL IS INTENDED FOR THE FINAL USER OF A LABEL AUTOMATIC SLIDING DOOR SYSTEM; IT IS UNDERSTOOD THAT INSTALLATION AND TESTING MUST HAVE BEEN CARRIED OUT BY SPECIALISED PERSONNEL.

GENERAL SAFETY WARNINGS

CAREFULLY READ THIS MANUAL BEFORE COMMISSIONING THE AUTOMATIC DOOR.

PROVISIONS

The automation has been designed to be used exclusively with pedestrian automatic sliding doors.
The manufacturer shall not be liable for incorrect product usage, as well as for any damages arising from changes to the system made without its prior consent.
When operating the system, accident prevention regulations must be observed.

REMARKS

Always respect the usage and maintenance conditions provided for by LABEL.
The equipment can be used by children of at least 8 years of age and by people with reduced physical, sensory or mental skills, or by inexperienced people, provided they are supervised, or after the same have received instructions relating to the safe use of the equipment and to the understanding of the relevant hazards.
Children should not play with the equipment.
Cleaning and maintenance intended to be performed by the user must not be carried out by children without supervision.
Maintenance and repair operations must only be performed by qualified and properly trained personnel.

PROPER BEHAVIOUR

Only use the automatic door if it is in perfect technical conditions.
In case of failure or malfunction that might affect safety, immediately contact the service centre.
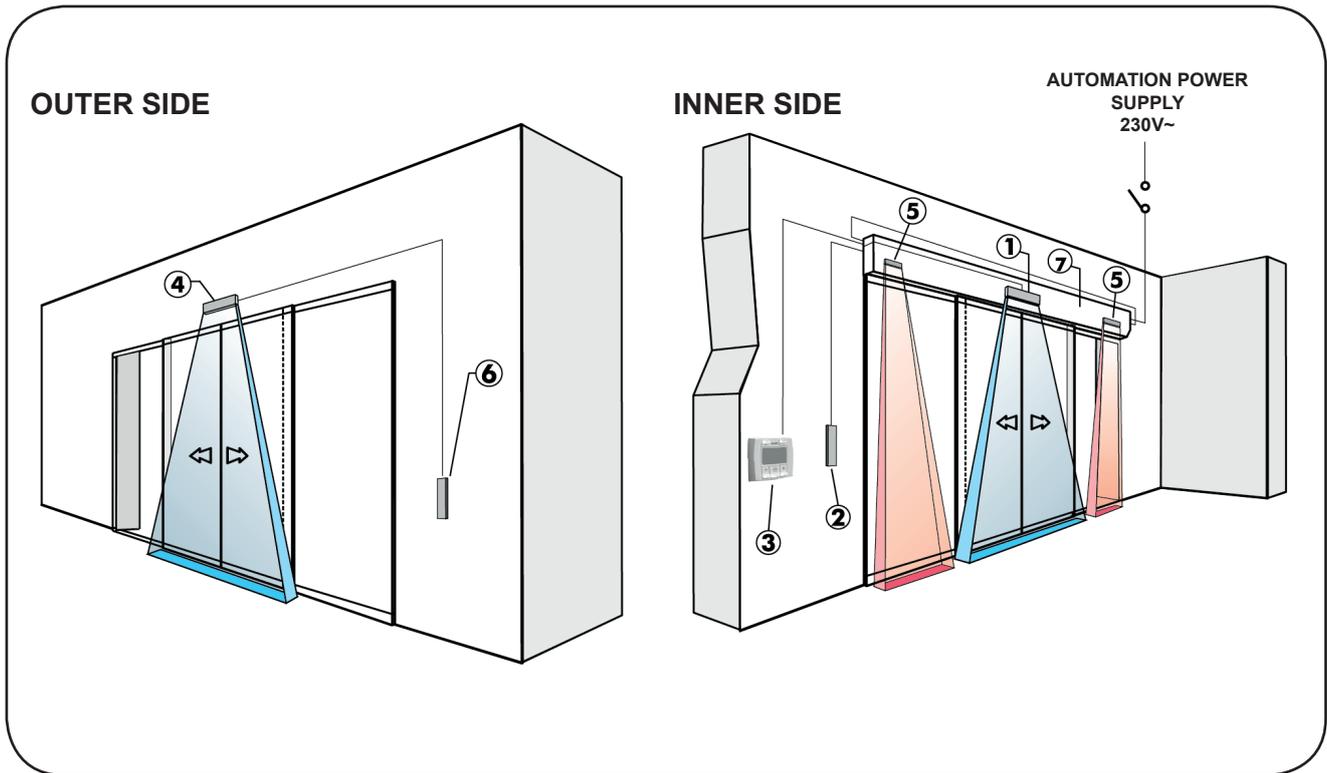Inappropriate use of the system may cause serious injuries and damage.

AUTOMATIC SLIDING DOOR

CONTENTS:

1) INDICATIVE DESCRIPTION OF THE SYSTEM

1	Internal presence sensor for safety during closing
2	Internal opening button
3	Digital selector
4	External presence sensor for safety during closing
5	Opening safety sensor
6	External opening button
7	Automation ETH

2) TECHNICAL SPECIFICATIONS OF THE AUTOMATION ETH

AUTOMATION MODEL	ETH - D (2 leaves)	ETH - S (1 leaf)
POWER SUPPLY	230V~ 50Hz +/- 10%, 115V~ 60Hz +/- 10%	
MAX. POWER	100 W	
FREQUENCY OF USE	continuous	
PAUSE TIME	Max. 30 sec.	
OPERATING TEMPERATURE	-15°C +50°C	
PROTECTION CLASS	IP22	
POWER SUPPLY OF EXTERNAL ACCESSORIES	24 Vdc	
DIMENSIONS OF THE AUTOMATION ETH (H x D)	120 x150 mm	
DIMENSIONS OF THE AUTOMATION ETH/T (H x D)	120 x210 mm	

3) AUTOMATIC DOOR OPERATION

> **WARNING!!**
> Always contact the service technician before putting into service the door, to learn how the automation works.

Switch on the power supply by means of the system switch.
The automation electronic control unit beeps shortly to indicate that the automatic door is powered.
The first opening command starts a calibration cycle during which the door opening speed is very low until the end of the motion, to find the stop point; after the delay time has elapsed, the door closes back at normal speed.

3.1) NORMAL DOOR OPERATION

- When the radars are activated, the door opens and stays open until the sensors detect the presence, then once the pause delay has elapsed the door closes back.

- When the door opening button is pressed, the door opens and stays open until the command remains active, then once the pause delay has elapsed it closes back.

- If the closing safety sensor detects a presence, the door immediately reopens, and stays open as long as the sensor remains engaged.

- If the opening safety sensor detects a presence, the door slows down and proceeds very slowly until the opening motion is completed.

- If during the opening motion the door collides against an obstacle, it stops and closes back.
  When it opens again, later, it slows down near the point where it had met the obstacle, to avoid further impact.

- If, during the closing motion, the door collides against an obstacle, it stops and opens back.
  When it closes again, later, it slows down near the point where it had met the obstacle, to avoid further impact.

3.2) DOOR OPERATION IN NIGHT LOCK MODE

- The door cannot be opened by means of the external and internal radars.

- The door can only be opened by pressing the OPEN button, or using the Spyco radio-control, if any.

- The safety functions (sensors and behaviour in case of obstruction) are active and operate as described in par. 3.1. related to normal operation.

4) PROGRAM SELECTORS

The program selector allows the user to select the operating mode of the door.
Depending on your preferences, it is possible to use the mechanical key selector EV-MSEL or the digital selector HB-DSEL.
Each program selector is fully described below.

4.1) MECHANICAL KEY SELECTOR EV-MSEL
OPERATING MODE

Insert and turn the key of the selector EV-MSEL to select the desired program.

[‹ ›]	**Open door program** The door remains motionless in the position of complete opening.
⬆	**Reduced opening during winter** To open the door partially
⬆	**Automatic bidirectional program** The door automatically opens after an opening command.
⬆	**Automatic unidirectional exit only program** To disable entry detection on external Radar input.
🔒	**Night lock program** The door can only be opened through the OPEN input or using the SPYCO remote control, if any.

The key can be taken out of the selector when in any position in order to prevent undesired changes to the work program.

4.2) DIGITAL PROGRAM SELECTOR HB-DSEL

Pressing briefly the button (SET), select the automatic door operating mode.
Whenever the button is pressed, you switch from a work program to the next.

The operating programs which can be selected using the button (SET) are described below.

Automatic bidirectional program
The door automatically opens after an opening command.

Automatic unidirectional exit only program
To disable entry detection on external Radar input.

Automatic unidirectional entry only program
To disable exit detection on internal Radar input.

Open door program
The door remains motionless in the position of complete opening.

Night lock program
The door can only be opened through the OPEN input or using the remote control, if any.

Manual free door
Automatic operation is disabled and the door can be opened manually.

Operation of other buttons located on the panel of the program selector HB-DSEL

❄

REDUCED OPENING DURING WINTER
To reduce the passage opening.
To activate reduced opening during winter, press once button ❄;
The symbol ❄ on the display indicates that the function is on.

To disable reduced opening during winter, press once more button ❄.

F2
PHARMACY OPENING (only for model ETH 150)
To open the door by a few centimetres.
(Only if the pharmacy function was enabled on the automation during installation).
To enable pharmacy opening press the F2 button once; the symbol F2 appears on the display.
To disable pharmacy opening, press the button F2 once more; the symbol F2 goes off on the display.

F1
Door opening command
Pressing the F1 button will open the door.
The button F1 may open the door even when the "NIGHT LOCK" work program is selected, if the automation electronic control unit is set accordingly.

F3
It is only used if the digital selector HB-DSEL manages two automatic doors

The HB-DSEL digital programmer can independently manage the operation of two ETH sliding automatic doors.
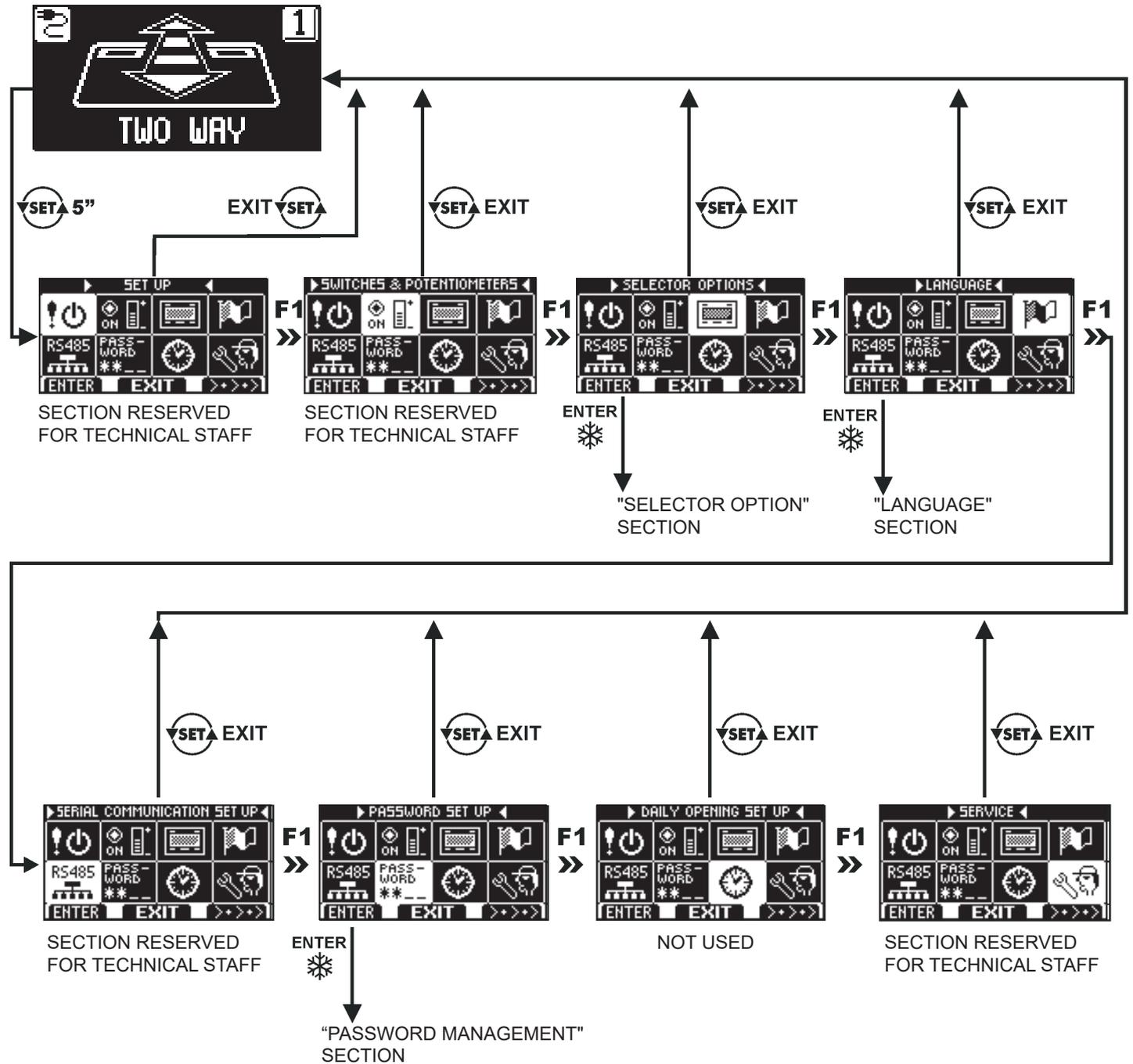

Pressing button F3, you select the door on which the work program is set;

The number 1 appears on the display when door 1 is selected; the number 2 appears if door 2 is selected.

4.2.1) GENERAL PROGRAMMING MENU

The user can enter the general programming menu when he wishes to select the desired language for the texts that appear on the display, or when he wishes to enable a password to prevent any unauthorised access to the digital selector HB-DSEL.

DIAGRAM 1

The paragraphs below explain the procedure to be followed to manage the user password and to select the language.

4.2.2) PASSWORD

To prevent the door work program from being modified, it is possible to set a password that must be entered every time the selector HB-DSEL is used.

To enable the password, perform the operations listed below:

1. Press the SET button for 5 seconds to access the general programming menu (see Diagram 1 at para. 4.2.1)
2. Press the button F1 five times to go to the Password Management sub-menu.
3. Press the Enter button ❄ to access the section "Password management".

PASSWORD MANAGEMENT

This section displays the two passwords available to the final user, the primary password and the service password.

The technical password is only reserved for the technical staff in charge of installation and maintenance operations.

PRIMARY PASSWORD (for the system owner-user)

It is a 5-character password used by the user to prevent unauthorized persons from having access to the selector HB-DSEL and change the work program.
Using a primary password is optional and must be enabled by the system owner.
The default technical password is "A-A-A-A-A".

> **WARNING!**
> **When enabling the password, be very careful not to forget the access combination.**

SERVICE PASSWORD (for user)

It is a 5-character password that the system owner may provide to persons authorized to use the selector HB-DSEL.
With the service password, it is only possible to change the work program of the automatic door.
The default service password is "A-A-A-A-A".
To change the service password, it is necessary to log in using the primary password.

> **Use the button ❄ to move the selection arrow downwards, use the F2 button to move the arrow upwards.**

HOW TO CHANGE THE PRIMARY PASSWORD

Select "PRIMARY PASSWORD"
Press OK (F1).

- Type the default primary password "A-A-A-A-A" by pressing 5 times the button A. (If the primary password is not the default password, since it had already been changed before, enter the currently-used primary password).

- Enter the new primary password, selecting a combination of 5 characters from the letters A-B-C-D.

	REPEAT NEW PASSWORD	
C		D
	PASSWORD ▓ _ _ _ _	
A	EXIT	B

- You are prompted to repeat the new password, so enter again the previous combination.

	REPEAT NEW PASSWORD	
C		D
	PASSWORD OK!!	
A	EXIT	B

- If the password entered is correct, the message "PASSWORD OK" is displayed for one second, then the system returns to the PASSWORD MANAGEMENT section. Press the EXIT **SET** button to return to the general programming menu
- If the password you entered does not match the previous one, the display shows PASSWORD ERROR, the system returns to the section PASSWORD MANAGEMENT and it is necessary to perform again the procedure.

HOW TO CHANGE THE SERVICE PASSWORD

- Select "SERVICE PASSWORD"
- Press OK (F1).

	ACTUAL PASSWORD	
C		D
	PASSWORD ▓ _ _ _ _	
A	EXIT	B

- Enter the primary password

	NEW PASSWORD	
C		D
	PASSWORD ▓ _ _ _ _	
A	EXIT	B

- Enter the new service password, selecting a combination of 5 characters from the letters A-B-C-D.

	REPEAT NEW PASSWORD	
C		D
	PASSWORD ▓ _ _ _ _	
A	EXIT	B

- You are prompted to repeat the new password, so enter again the previous combination.

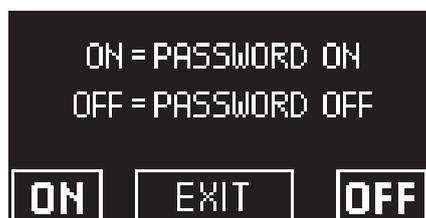|	REPEAT NEW PASSWORD	
C		D
	PASSWORD OK!!	
A	EXIT	B

- If the password entered is correct, "PASSWORD OK" is displayed for one second and the system returns to the PASSWORD MANAGEMENT section.

Press the EXIT **SET** button to return to the general programming menu.
If the password you entered does not match the previous one, the display shows PASSWORD ERROR, the system returns to the section PASSWORD MANAGEMENT, and it is necessary to perform again the procedure.

ENABLING USER PASSWORD USAGE (primary and service password)
- Select "PASSWORD ON / OFF"
- Press OK (F1).

```
┌───┐   ACTUAL    ┌───┐
│ C │  PASSWORD   │ D │
└───┘            └───┘
      ┌──────────────┐
      │  PASSWORD    │
      │  ▒ _ _ _ _   │
      └──────────────┘
┌───┐  ┌────────┐  ┌───┐
│ A │  │  EXIT  │  │ B │
└───┘  └────────┘  └───┘
```

```
    ON = PASSWORD ON

   OFF = PASSWORD OFF

┌────┐  ┌────────┐  ┌────┐
│ ON │  │  EXIT  │  │OFF │
└────┘  └────────┘  └────┘
```

- Press the ON ❄ button to enable the usage of user passwords and return to the menu PASSWORD MANAGEMENT.
  To return to the work program view, press the EXIT button twice ⊽SET⊿
- From this moment on, whenever the user wants to access the digital selector HB-DSEL to change the automatic door work program, the primary or service password must be entered.
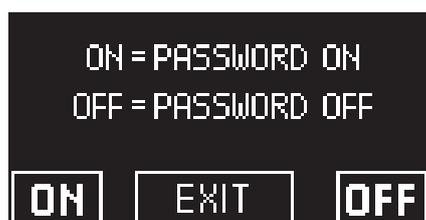
> ✎ **When the user decides to enable password usage, it is recommended to change the combination of both primary and service password.**

DISABLING USER PASSWORD USAGE
- From the PASSWORD MANAGEMENT section, select "PASSWORD ON / OFF"
- Press the button OK (F1)

```
┌───┐   ACTUAL    ┌───┐
│ C │  PASSWORD   │ D │
└───┘            └───┘
      ┌──────────────┐
      │  PASSWORD    │
      │  ▒ _ _ _ _   │
      └──────────────┘
┌───┐  ┌────────┐  ┌───┐
│ A │  │  EXIT  │  │ B │
└───┘  └────────┘  └───┘
```

- Enter the primary password

```
    ON = PASSWORD ON

   OFF = PASSWORD OFF

┌────┐  ┌────────┐  ┌────┐
│ ON │  │  EXIT  │  │OFF │
└────┘  └────────┘  └────┘
```

- Press the OFF button (F1) to disable user password usage.
  To return to the general programming menu press twice the ⊽SET⊿ button EXIT
  Access to the digital selector HB-DSEL as program selector now is free.

4.2.3) LANGUAGE
To select the language perform the operations listed below:

1. Press and hold the button ⊽SET⊿ for 5 seconds to access the general programming menu (see Diagram 1 in the previous paragraph)
2. Press the button **F1** three times to go to the "Language" sub-menu.
3. Press the Enter ❄ button to access the section "Language".

```
➡ ▶ ITALIANO
  ▶ ENGLISH
  ▶ DEUTSCH
  ▶ FRANCAIS

⌄        ┌────────┐
         │  EXIT  │
         └────────┘
```

- Use the buttons **F2** and ❄ to move the arrow in correspondence with the desired language.
- Press the EXIT ⊽SET⊿ button to return to general programming menu.
- Press the EXIT button ⊽SET⊿ again to return to the main view of the automatic door work program.

4.2.4) SELECTOR OPTIONS

In the section "Selector Options" you can choose which work programs are displayed on the display of the digital selector, so that the end user can scroll through and select only those he wants to use, while the others are not displayed.

"Automatic bidirectional program"

The buttons in this sub-menu are used as follows:
The button * allows to go to the next selection.
The button F2 allows to return to the previous selection.
The button F1 sets the function state to OFF.
The button F3 sets the function state to ON.

"Exit Only Program"

"Entry Only Program"

"Open door program"

"Night lock program"

"Manual free door"

"Reduced opening during winter"
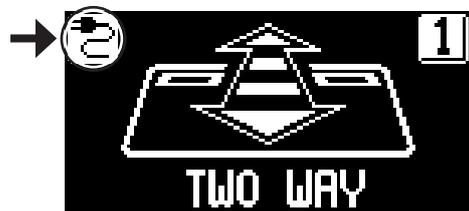
"Pharmacy opening"

5) OPERATION IN CASE OF POWER SUPPLY FAILURE

If the battery module is installed in the automation, automatic door operation is guaranteed by an emergency battery.
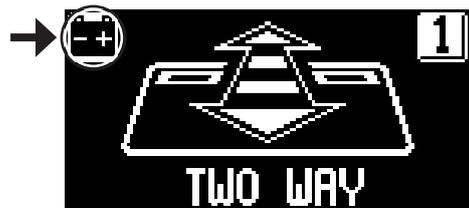
Depending on the programming of the automation electronic control unit, the door may operate as follows:

a) Automatically open and stay open if the program selector is not set to Night Lock.
b) The door stays closed, but it can be opened by activating any opening command (motion radars, buttons, etc.).

POWER SUPPLY LIGHT DISPLAY on HB-DSEL PROGRAMMER

Mains power supply on and connected battery under charge.
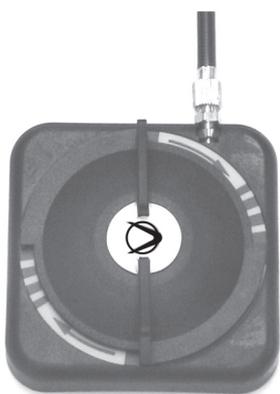

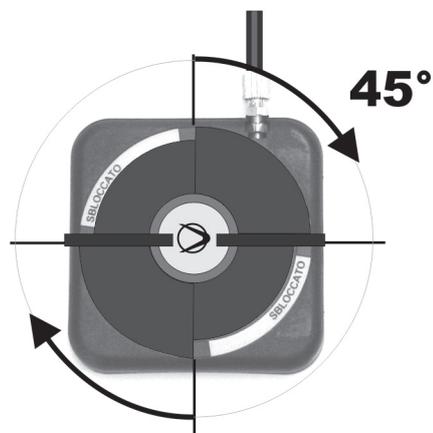Mains power supply off and door operating with charged battery.

- Mains power supply off and door operating with battery low.
- Mains power supply on with inefficient battery.

- When the battery is exhausted or there is no emergency battery, door motion is free and leaves may be opened manually if the electric lock EV-EBFSE is not installed.

- If the electric lock EV-EBFSE is installed and the door is closed, leaves cannot be moved manually. In this case, to unlock the door, release the electric lock turning the MANUAL RELEASE knob clockwise by about 45° - 50° (see fig. below, position 2); under these conditions you can manually open the door.

1 LOCKED

2 RELEASED

45°

Remember to turn the MANUAL RELEASE knob back to position 1 LOCKED to restore the electric lock operation with mains power supply on.

6) NOTIFICATION OF ERRORS AND OPERATIONAL ISSUES

PROBLEM	LIKELY CAUSE	SOLUTION
The door opens but it doesn't close back.	The motion radars or the closing safety sensor detect the presence of an object or of a person.	Check that the radars or the sensors are not engaged.
The door opens very slowly.	The opening safety sensor detects an obstacle.	Identify the obstacle and remove it.
The door doesn't respond to the opening commands.	The MANUAL FREE DOOR function can be activated.	Check the setting of the program selector.
The door stops during its motion and inverts the running direction.	The door detects an obstacle along its motion.	Identify the obstacle and remove it.
	The door experiences friction along its motion.	Properly arrange the fixture; for this operation please contact the service centre.
The electronic control unit beeps multiple times and door operation is irregular.	The defect depends on the number and length of the beeps.	Contact the service centre to solve the issue.
The symbol ⓘ is displayed	The system has detected a machine operation error.	Contact the service centre to solve the issue.

Should any malfunction occur, the Customer must contact the Support Centre and use the door manually, without powering it.

7) MAINTENANCE

The maintenance plan must be observed to ensure the service life and the safe operation of the automatic door. It is recommended to sign a maintenance contract providing for periodic intervention on the system by specialised technicians.

If the user has the program selector HB-DSEL, he will be warned about the expiry of the maintenance interval when the message "PROGRAMMED MAINTENANCE" is displayed.

Each maintenance operation is recorded into the maintenance log.
The final user must limit himself to cleaning the glass surfaces, the door profiles, and if necessary the motion and presence sensors, taking care to lock the door while performing these operations.

8) DISPOSAL

At the end of its lifecycle, this system must be disposed of in accordance with national provisions. To this purpose, it is recommended to contact specialised operators.

LABEL service centre

Made in Italy
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