

USER MANUAL

AUTOMATIC PEDESTRIAN SLIDING DOOR FOR ESCAPE ROUTES and EMERGENCY EXITS

EN



REVOLUS REVOLUS 90 REVOLUS-T



TRANSLATION OF THE
ORIGINAL INSTRUCTIONS



USER MANUAL - REVOLUS - EN - Rel.2.1 - 06/2020 - CD0600EN-MU

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.

The person in charge of the automatic door commissioning must hand over this User Manual to the end user and inform him as to the automation operation.

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.



The installer must inform the owner of the automatic door as to the use of the primary password required to use the R-DSEL digital program selector and as to the procedure to be followed to modify the combination.

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
FOR ESCAPE ROUTES AND EMERGENCY EXITS

REVOLUS
REVOLUS 90
REVOLUS-T

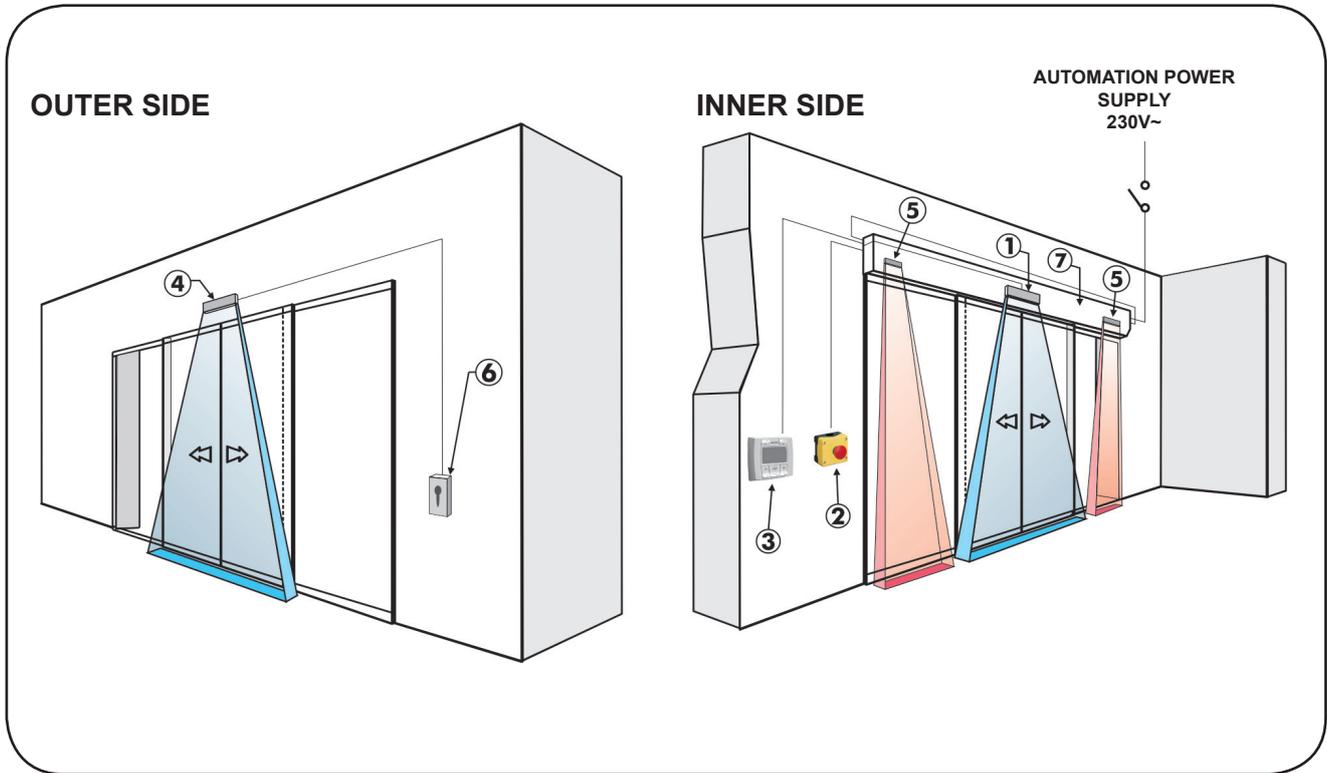
models:

REV-D
REV-S
REV-DTEL
REV-TELDX
REV-TELSX
REV-90S
REV-90D

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1) INDICATIVE DESCRIPTION OF THE SYSTEM



- ① Internal movement and presence sensor for door opening and safety during closing
- ② Emergency opening button
- ③ Digital selector
- ④ External movement and presence sensor for door opening and safety during closing
- ⑤ Opening safety sensor
- ⑥ Key button
- ⑦ Automation **REVOLUS**

2) REVOLUS-90 - REVOLUS-T AUTOMATION TECHNICAL DATA

AUTOMATION MODEL	REV-D	REV-S	REV-90D	REV-90S	REV-DTEL	REV-DTELSX	REV-DTELDX
POWER SUPPLY	230Vac +/-10%, 50-60Hz						
POWER	100 W						
STAND-BY CONSUMPTION	6 W						
FREQUENCY OF USE	continuous						
PAUSE TIME	Max. 20 seconds						
OPERATING TEMPERATURE	-15°C to +50°C						
PROTECTION CLASS	IP22						
POWER SUPPLY OF EXTERNAL ACCESSORIES	24 Vdc						
DIMENSION OF THE AUTOMATION REVOLUS (H X D)	120 x 150 mm						
DIMENSION OF THE AUTOMATION REVOLUS-90 (H X D)	100 x 135 mm						
DIMENSION OF THE AUTOMATION REVOLUS-T (H X D)	120 x 210 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; a calibration cycle starts automatically during which the door opening speed is very low until the end of the stroke, to find the stop point.

The door then closes back and again performs a full opening/closing cycle, during which the automation carries out the safety system test.

Once the test is completed the door is ready for normal operation.

3.1) NORMAL DOOR OPERATION

When something enters the motion sensors (internal and/or external radar) detection area, 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 manual 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, after opening to an extent corresponding to 80% of the passage opening, slows down and proceeds very slowly until the opening stroke is completed.

If during the opening movement the door bumps against an obstacle, it stops and tries to reopen if the radar detects a presence; if after three attempts the obstacle persists, the door stops, and will only close back when the internal radar is disengaged.

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.

3.3) SYSTEM SAFETY TEST DURING OPENING

The automatic door performs the safety system testing operations whenever it is powered, whenever the NIGHT LOCK or MANUAL work programs are deselected and an automatic work program is selected, or once every 24 hours.

During the test of the safety system the digital selector displays the message "SAFETY SYSTEM TEXT" and the motion of the automatic door occurs maintaining active the control and safety organs.

4) R-DSEL DIGITAL PROGRAM SELECTOR



Each time, before using the R-DSEL digital selector, the user is prompted to enter the relevant password. If no operations are performed for about 6 seconds, the R-DSEL programmer switches back to the stand-by mode and the user will have to enter the password again to use it.



Pressing briefly the button **VSETA**, select the automatic door operating mode. Whenever the button is pressed, you switch from a work program to the next. The display sequentially shows the available work programs.

The operating programs which can be selected using the button **VSETA** 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.



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.



When you select NIGHT LOCK, you will be prompted to confirm the operation; press F3 to confirm, or another button to cancel.



Manual free door

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



When you select MANUAL, you will be prompted to confirm the operation; press F3 to confirm, or another button to cancel.

Operation of other buttons located on R-DSEL program selector panel



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 .



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.

You can set whether the F1 button shall work right away when it is pressed or only after the user password has been typed (see paragraph "F1 BUTTON PASSWORD").



F3

It is used to confirm the NIGHT LOCK or MANUAL work program



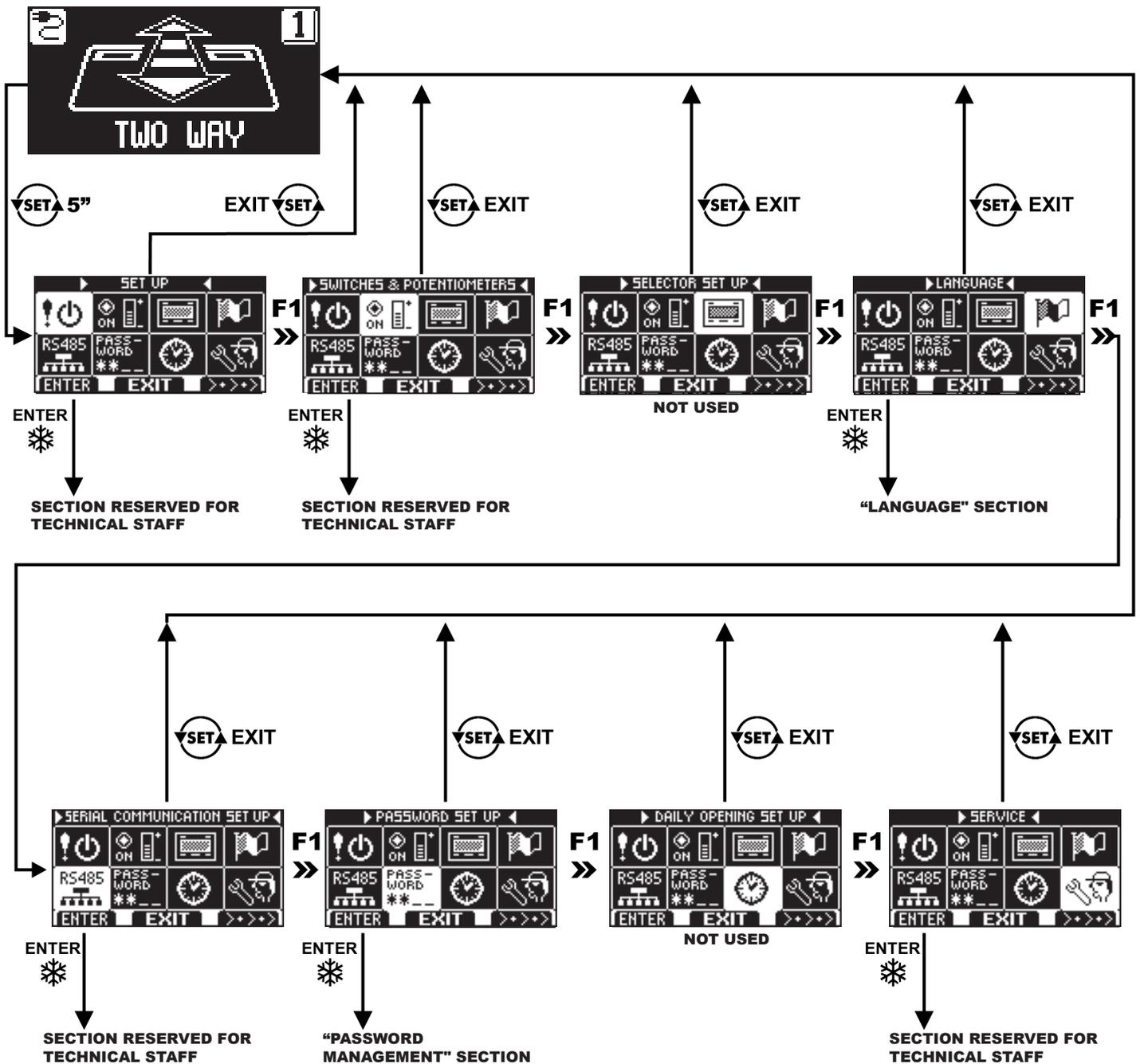
When switching back from the NIGHT LOCK or MANUAL program to the automatic program, the automation carries out the safety system test.

While the opening safety system test the message "SAFETY SYSTEM TEST" is displayed on the R-DSEL.

4.1) 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 R-DSEL.

DIAGRAM 1



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

4.2) 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 R-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



The password the end user must type is the primary 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 R-DSEL programmer and change the work program.

The default technical password is "A-A-A-A-A".

WARNING!

After changing the password, be very careful not to forget it!

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).



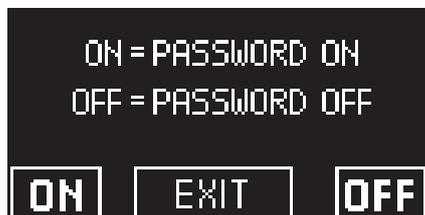
- Enter the default primary password "A-A-A-A-A" pressing 5 times the button A. (If the primary password is not the default password, since it had already been changed before, enter the currently-used primary password).



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

F1 BUTTON PASSWORD

- Select "PASSWORD ON / OFF"
- Press OK (F1).



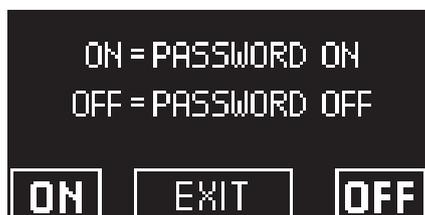
- Press the ON button to enable the prompting of the user password before the door opens when the F1 button is pressed and return to the PASSWORD MANAGEMENT menu
To return to the work program view, press the EXIT button  twice.
- From now on whenever the user wishes to open the door by pressing the F1 button he will have to type the primary password.

DISABLING USER PASSWORD USAGE

- From the PASSWORD MANAGEMENT section, select "F1 BUTTON PASSWORD"
- Press the button OK (F1)



- Enter the primary password



- Press the OFF (F1) button to disable the prompting of the user password before the door opens when the F1 button is pressed.
To return to the general programming menu, press the EXIT button  twice
From now on the door can be opened by pressing the F1 button once.

4.3) LANGUAGE

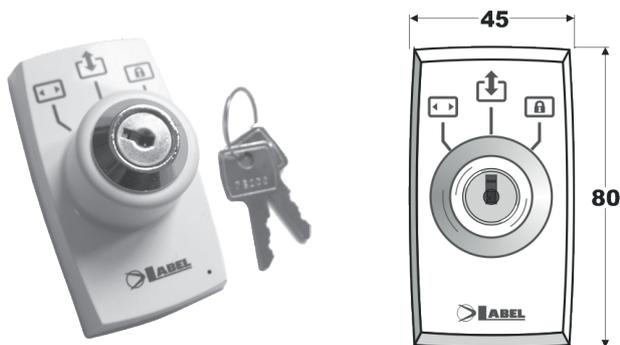
To select the language perform the operations listed below:

1. Press and hold the button  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".
- Use the buttons F2 and  to move the arrow in correspondence with the language desired.
 - Press the EXIT button  to return to general programming menu.
 - Press the EXIT button  again to return to the main view of the automatic door work program.



5) R-MSEL MECHANICAL KEY SELECTOR FOR WORK PROGRAM SELECTION

The R-MSEL program selector allows the user to select the door operating mode and can be installed as an alternative to the R-DSEL selector.



OPERATING MODE

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



Open door program

The door remains motionless in the position of complete opening.



Automatic bidirectional program

The door automatically opens after an opening command.



Night lock program

The door can only be opened by the OPEN-START input or by radio control if the EN/RF1 receiver is installed.

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

WARNING!

Every time it quits the NIGHT LOCK program to switch back to the automatic bidirectional program, the door runs the safety system test.

6) OPERATION IN CASE OF POWER SUPPLY FAILURE

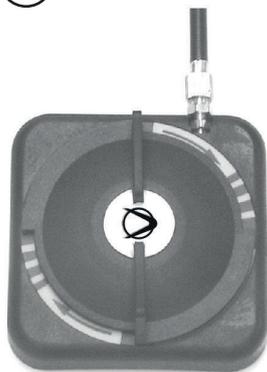
When any automatic program is selected, in case of mains power supply failure, the door opens using the power provided by the battery and stays open.

When NIGHT LOCK is selected the door stays closed.

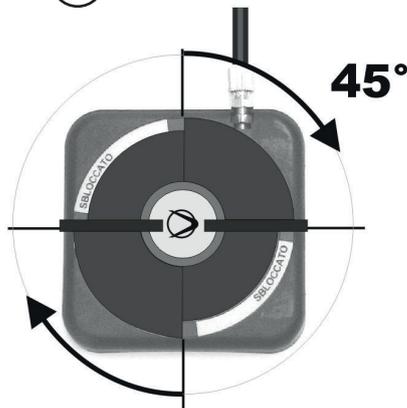
In case of mains power supply failure, the automation switches off to preserve the battery charge.

- When the power supply is cut off, door motion is free and wings may be opened manually if the closing electric lock is not installed.
- If the electric lock is installed and the door is closed, wings cannot be moved manually. In this case, to free the door, release the electric lock by turning the MANUAL RELEASE knob by approximately 45° - 50°. (see the figure below, position ② clockwise; under these conditions you can manually open the door).

① LOCKED



② RELEASED



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

7) 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 when approaching the final section of the opening stroke.	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.	Adjust the door; for this operation please contact the service centre.
The electronic control unit of the automation 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.
The door has opened and doesn't close back. The message "SAFETY SYSTEM ERROR" is displayed on the R-DSEL programmer.	The automation has detected a safety system fault during opening.	Try to select the NIGHT LOCK program and then to return to the automatic program. Should the problem persist, please contact the support centre.

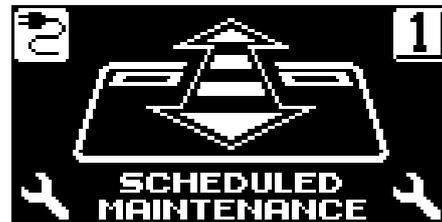
Should any malfunction occur, the Customer must contact the Support Centre and use the door manually, without powering it.

8) 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 R-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.



9) 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



REVOLUS

Made in Italy
by



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AZIENDA CERTIFICATA
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