



INSTALLATION AND MAINTENANCE MANUAL FOR SWING DOOR



SW80S SPRING SW80S1 LIGHT SPRING

D184 All technical and commercial documents are available in the DOWNLOAD area of the website www.facespa.it.

1. INTRODUCTION

Before you begin to install or start an automatic pedestrian doors, an inspection must be carried out on site by qualified personnel, for making measurements of the compartment wall, door and drive.

This inspection is to assess the risk and to select and implement the most appropriate solutions according to the type of pedestrian traffic (intense, narrow, one-way, bi-directional, etc..), The type of users (elderly, disabled, children, etc..), in the presence of potential hazards or local circumstances.

To assist installers in applying the requirements of European Standard EN 16005 concerning the safe use of automatic pedestrian doors, we recommend consulting the guides E.D.S.F. (European Door and Shutter Federation) available on <u>www.edsf.com</u>.

1.1 GENERAL SAFETY INSTRUCTION

This installation manual is intended for professionally competent personnel only. Before installing the product, carefully read the instructions. These instructions must be kept.

WARNING: Important safety instructions. Follow all instructions since incorrect installation can lead to severe injury.

The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as these are a potential source of hazard.

Before installing the product, make sure it is in perfect condition. Do not install the product in an explosive environment and atmosphere: gas or inflammable fumes are a serious hazard risk.

Before installing the automations, make all structural changes relating to safety clearances and protection or segregation of all areas where there is risk of being crushed, cut or dragged, and danger areas in general.

Make sure the existing structure is up to standard in terms of strength and stability. FACE is not responsible for failure to use Good Working Methods in building the frames to be motorised or for any deformation occurring during use.

The safety devices (safety sensor, photocells, etc.) must be installed taking into account: applicable laws and directives, Good Working Methods, installation premises, system operating logic and the forces developed by the motorised door.

Apply hazard area notices required by applicable regulations.

The emission sound pressure level of the door is $LpA \le 70dB(A)$.

Each installation must clearly show the identification details of the automatic pedestrian door.

1.2 EC MARKING AND EUROPEAN DIRECTIVES



Automations for swing pedestrian door, are designed and manufactured in compliance with the safety requirements of the European standard EN 16005 and are CE-marked in accordance with the Electromagnetic Compatibility Directive (2014/30/UE).

The automation also include a Declaration of Incorporation according to the Machinery Directive (2006/42/EC).

Pursuant to Machinery Directive (2006/42/CE) the installer who motorises a door or gate has the same obligations as the manufacturer of machinery and as such must:

- prepare the technical file which must contain the documents indicated in Annex V of the Machinery Directive; (The technical file must be kept and placed at the disposal of competent national authorities for at least ten years from the date of manufacture of the pedestrian door);

- draft the EC declaration of conformity in accordance with Annex II-A of the Machinery Directive and deliver it to the customer;

- affix the CE marking on the power operated door in accordance with point 1.7.3 of Annex I of the Machinery

All data and information contained in this manual have been drawn up and checked with the greatest care. However FACE cannot take any responsibility for eventual errors, omissions or inaccuracies due to technical or illustrative purposes.

FACE reserves the right to make changes and improvements to their products. For this reason, the illustrations and the information appearing in this document are not definitive.

This edition of the manual cancels and replaces all previous versions. In case of modification will be issued a new edition.



DECLARATION OF INCORPORATION

Machines Directive 2006/42/EC, Annex II-B

FACE S.r.l. Viale delle Industrie, 74 - 31030 Dosson di Casier (TV) - ITALY

Declares that:

The Product automations for power operated pedestrian swing door type: SW80S, SW80S1

Has been built for installation on pedestrian door and constitutes a machine in accordance with Directive 2006/42/EC. The manufacturer of the power operated pedestrian door must declare its conformity in accordance with Directive 2006/42/EC (Annex II-A) prior to starting-up the machine.

It complies with the applicable essential safety requirements specified in Annex I, chapter 1 of Directive 2006/42/EC. It complies with the Electromagnetic Compatibility Directive 2014/30/UE.

It complies with following harmonized standards:

EN 16005 Power operated pedestrian doorsets - Safety in use - Requirements and test methods (chapters: 4.2, 4.3.1, 4.3.2, 4.3.3, 4.4.1, 4.4.4, 4.4.5, 4.6.1, 4.6.3, 4.6.4, 4.6.7, 4.6.8, 4.7.2.4, 5.1, 5.2, 5.3, 5.4, 5.5.3, 5.6, 5.8.1, 5.8.2, 5.8.3, 5.10)

EN 60335-2-103 Household and similar electrical appliances - Safety - Part 2: Particular requirements for drives for gates, doors and windows

The technical documentation complies with Annex VII-B to Directive 2006/42/EC.

The technical documentation is managed by: Ferdinando Menuzzo with registered offices in Viale delle Industrie, 74 - 31030 Dosson di Casier (TV) - ITALY

A copy of the technical documentation shall be supplied to the competent national authorities following duly motivated request.

Place and date: Dosson di Casier, 2019-06-15

Paolo Barchir Aana Direct

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2. TECHNICAL DATA

Technical data	SW80S	SW80S1
Model	SPRING	LIGHT SPRING
Use	Opening by motor, closing by spring and motor	Opening by motor, closing by spring and motor, with easy manual handling
Peference standard	EN 16005	EN 16005
	EN 1154 (closing force: EN4, EN5, EN6)	EN 1154 (closing force: EN4)
Type approval	Type tested EN 16005 • open and close safe ID P-4113/19	-
Product dimensions		
(Height x Depth x Length)	88 x 130 x 540 mm	88 x 130 x 540 mm
Maximum load:	300 kg x 0,8 m 300 250 200 150 100 50 0 0,6 0,7 0,8 0,9 1,0 1,1 1,2 1,3 1,41,5 m	300 kg x 0,8 m 300 250 200 150 100 50 0 0,6 0,7 0,8 0,9 1,0 1,1 1,2 1,3 1,4 1,5 m
Opening and closing time	2 – 6 s	2 – 6 s
Duty class	Continuous operation	Continuous operation
Intermittent operation	S3 = 100%	S3 = 100%
Power supply	100 – 240 Vac 50/60 Hz	100 – 240 Vac 50/60 Hz
Rated power	70 W	70 W
Stand-by	3 W	3 W
Rated load	40 Nm	40 Nm
Protection Rating	IP 20	IP 20
Operating temperature	-15 °C +50 °C	-15 °C ↓ +50 °C
Parameter adjustment	Buttons and Display	Buttons and Display
Connections to control and safety devices	Dedicated connecting terminals	Dedicated connecting terminals
Number of programmable terminals	4 (G1, G2, G3, G4)	4 (G1, G2, G3, G4)
Power output for accessories	12 Vdc (1A max)	12 Vdc (1A max)
Power output for electric locks and electronic locks	12 Vdc (1A max) / 24 Vdc (0,5 A max)	12 Vdc (1A max) / 24 Vdc (0,5 A max)
Firmware update	USB standard	USB standard
Function selector device	FSD1, FSD4	FSD1, FSD4
Battery power device	SW80BD (for automations cut to size only)	SW80BD (for automations cut to size only)

N.B. The technical data above refer to average conditions of use and cannot be certain in each case. Each automatic entrance variables such as: friction, balancing and environmental conditions that may substantially change both the duration and the quality of the operation of the automatic or some of its components, including the automation. The installer must to adopt adequate safety coefficients for each particular installation.

3. STANDARD INSTALLATION



Rif.	Code	Description
1	SW80S	SW80S automation (Spring) for swing doors
2	SW80SA	Sliding arm
3	SD3	Safety sensor
4	OS1	Opening sensor
5	FSD1, FSD4	Electronic function selector

Note: Components and codes are those most commonly used in systems for automatic swing doors. The full range of equipment and accessories is also available in the sales list.

The given operating and performance features can only be guaranteed with use of FACE accessories and safety devices.

4. ASSEMBLY PROCEDURE OF THE AUTOMATION

Check the stability, the weight of the leaf and that the movement is smooth and without friction (if necessary to reinforce the frame). Any closing door device must be removed or completely deactivated.

4.1 INSTALLATION OF SW80S AUTOMATION WITH SW80SA SLIDING ARM

Use the sliding arm to pull with doors which open inside (view from the automation).

Remove the cover and fix the automation in a stable and leveled way to the wall using the measurements shown in the figure; refer to the axis of the door hinges (if X = 0 mm, the maximum door opening is 90°).

Note: if necessary, you can change the measure H, between the automation and the door, by replacing the spacer, using the codes listed in the table.





FIXING THE SLIDING ARM AND PRE-CHARGING OF THE CLOSING SPRING

Fix the sliding arm on the door as shown in the figure.

Bring the door to the closed position, insert the sliding arm in the guide and fix to the automation.

Check that the screws (B) and (C) are completely unscrewed.

Unscrew the screw (A) by about ½ turn using a 5 mm hexagon key.

Tighten the screw (B) until the motor pulley turns, and then tighten the screw (B) for about 1 turn.

Tighten the screw (A).

Tighten the screws (B) and (C).

ADJUSTMENT OF THE CLOSING SPRING

The automation is supplied with the closing spring regulated with minimum force.

To increase the closing force of the spring, tighten the screw (D) using a 6 mm hexagon key.

If necessary, to increase the braking of the closing spring, move the jumper on the BRAKE connector (F) of the electronic control to the position M (medium braking) or H (high braking).

ADJUSTMENT OF THE SMALL SPRING

The automation is supplied with the small spring regulated with minimum force.

To increase the closing force in the last 4 degrees, tighten the screw (E) using a 13 mm key.

To reduce the closing force in the last 4 degrees, unscrew the screw (E).

Move the door manually, and verify the correct opening and closing force.

WARNING: Adjust the opening mechanical stop inside the sliding guide.

CLOSING OF THE AUTOMATION COVER

Attach the cover profile to the base profile. To prevent the cover from being opened without the use of a tool, you can secure the cover to the heads at the holes, using the screws 2,9x9,5.

4.2 INSTALLATION OF SW80S AUTOMATION WITH SW80SA1 SLIDING ARM

Use the sliding arm to push with doors which open outside (view from the automation).

Remove the cover and fix the automation in a stable and leveled way to the wall using the measurements shown in the figure; refer to the axis of the door hinges.

Note: if necessary, you can change the measure H, between the automation and the door, by replacing the spacer, using the codes listed in the table.





FIXING THE SLIDING ARM AND PRE-CHARGING OF THE CLOSING SPRING

Fix the sliding arm on the door as shown in the figure. If the leaf width is reduced, shorten the sliding guide.

Bring the door to the closed position, insert the sliding arm in the guide and fix to the automation.

Check that the screws (B) and (C) are completely unscrewed.

Unscrew the screw (A) by about ½ turn using a 5 mm hexagon key.

Tighten the screw (B) until the motor pulley turns, and then tighten the screw (B) for about 1 turn.

Tighten the screw (A).

Tighten the screws (B) and (C).

ADJUSTMENT OF THE CLOSING SPRING

The automation is supplied with the closing spring regulated with minimum force.

To increase the closing force of the spring, tighten the screw (D) using a 6 mm hexagon key.

If necessary, to increase the braking of the closing spring, move the jumper on the BRAKE connector (F) of the electronic control to the position M (medium braking) or H (high braking).

ADJUSTMENT OF THE SMALL SPRING

The automation is supplied with the small spring regulated with minimum force.

To increase the closing force in the last 4 degrees, tighten the screw (E) using a 13 mm key.

To reduce the closing force in the last 4 degrees, unscrew the screw (E).

Move the door manually, and verify the correct opening and closing force.

WARNING: Adjust the opening mechanical stop inside the sliding guide.

CLOSING OF THE AUTOMATION COVER

Attach the cover profile to the base profile. To prevent the cover from being opened without the use of a tool, you can secure the cover to the heads at the holes, using the screws 2,9x9,5.

4.3 INSTALLATION OF SW80S AUTOMATION WITH SW80AA ARTICULATED ARM

Use the articulated arm to push with doors which open outside (view from the automation).

Remove the cover and fix the automation in a stable and leveled way to the wall using the measurements shown in the figure; refer to the axis of the door hinges.

Note: if necessary, you can change the measure H, between the automation and the door, by replacing the spacer, using the codes listed in the table.





FIXING THE ARTICULATED ARM AND PRE-CHARGING OF THE CLOSING SPRING

Fix the bracket of the articulated arm on the door, using the measurements shown in the figure.

Bring the door to the closed position, fix the articulated arm to the automation, and fix the other end of the articulated arm to the door.

Adjust the length of the semi-arm (X) so that the angle between the semi-arm (X) and the door is about 90°.

Check that the screws (B) and (C) are completely unscrewed.

Unscrew the screw (A) by about ½ turn using a 5 mm hexagon key.

Tighten the screw (B) until the motor pulley turns, and then tighten the screw (B) for about 1 turn.

Tighten the screw (A).

Tighten the screws (B) and (C).

ADJUSTMENT OF THE CLOSING SPRING

The automation is supplied with the closing spring regulated with minimum force.

To increase the closing force of the spring, tighten the screw (D) using a 6 mm hexagon key.

If necessary, to increase the braking of the closing spring, move the jumper on the BRAKE connector (F) of the electronic control to the position M (medium braking) or H (high braking).

ADJUSTMENT OF THE SMALL SPRING

The automation is supplied with the small spring regulated with minimum force.

To increase the closing force in the last 4 degrees, tighten the screw (E) using a 13 mm key.

To reduce the closing force in the last 4 degrees, unscrew the screw (E).

Move the door manually, and verify the correct opening and closing force.

WARNING: Install the opening mechanical stop.

Note: the mechanical stop on the floor must be fixed in a visible position and must not create tripping hazard.

CLOSING OF THE AUTOMATION COVER

Attach the cover profile to the base profile. To prevent the cover from being opened without the use of a tool, you can secure the cover to the heads at the holes, using the screws 2,9x9,5.

5. ELECTRICAL CONNECTIONS



Rif.	Code	Terminals	Description
1	2329	MAINS IN	Cable for connection to the power supply.
2	5EA12	PWR	Switching power supply 42V
3	5CB11		Electronic control
4	2B9015	MOT	Brushless motor
		ENC	Angular sensor
5	SW80BD	BAT	Battery power device
6		FUSE	Battery fuse 5x20 - F10A

5.1 GENERAL SAFETY ELECTRICAL PRECAUTIONS

Installation, electrical connections and adjustments must be completed in conformity with Good Working Methods and with regulations in force.

Before connecting the power supply, make sure that the data on the label correspond to those of the mains supply.

A multipolar disconnection switch with a contact opening gap of at least 3 mm must be incorporated in the fixed wiring in accordance with the wiring rules. This switch must be protected from unauthorized activations.

Check that the mains supply is equipped with a suitable residual current circuit breaker and a 6 A overcurrent protection.

Connect the automation to an effective earthing system carried out as indicated by current safety regulations.

During installation, maintenance and repair operations, cut off the power supply before opening the cover to access the electrical parts. To handle electronic parts, wear earthed antistatic conductive bracelets.

FACE declines all responsibility in the event of components which are not compatible with the safe and correct operation of the product.

For repairs or replacements of products only original spare parts must be used.

5.2 POWER SUPPLY ELECTRICAL CONNECTION

The connection to the mains supply can be done in one of the two following ways.

1) ELECTRICAL CONNECTION THROUGH THE AUTOMATION BASE

Use the electric cable and the supplied terminals for the connection to the mains supply through a channel in the wall, previously made.

Note: Shorten the electric cable to the desired size.

Make sure there are no sharp edges that might damage the electric cable.

For the connection to the mains supply use an independent channel, separated from the connections to control and safety devices.



2) ELECTRICAL CONNECTION THROUGH THE AUTOMATION END CAP

If the path of the electric cable is outer the wall, drill the end cap on the suitable area, fix the electric cable using a supplied PG9 cable gland.

Connect the electric cable to the junction box (using the supplied terminals), or connect the electric cable to the wall socket using an electrical plug (not supplied by us).



5.3 ELECTRONIC CONTROL TERMINALS



Note: The terminals with the same number are equivalent.

The electronic control comes with the jumpers on the terminals with an asterisk [*]. When connecting safety devices remove the jumpers of the corresponding terminals.

Terminals	Description
0-1	Output 12 Vdc for external powering accessories. The maximum absorption of 1 A corresponds to the sum of all the terminals 1 (+12V).
1 – 3A	Contact N.O. opening A side (interior side).
1 – 3B	Contact N.O. opening B side (outer side).
1 – 8A	Closing safety contact N.C. The opening of the contact causes the reversal of the movement. Note: connect safety devices with test (see terminal 41), and remove the jumper 41 - 8A.
1 – 6A	Opening safety contact N.C. The opening of the contact stops the movement during the opening phase; the door closes after 3s. If the automation is closed, the opening of the contact prevents the opening. Note: connect safety devices with test (see terminal 41), and remove the jumper 41 - 6A.
41	Test output (+12 V). Connect the safety devices with test (in accordance with EN 16005), as indicated in the following chapters. Note: in case of devices without test, connect the N.C. contact to terminals 41 - 8A or 41 - 6A.
1-G1/G2/G3/G4	Input terminal provided for general use.
0 – G1/G2	Output terminal (12 Vdc, 20 mA max) provided for general use.
	Using the ADV > STG1/STG2/STG3/STG4 menu you can choose a specific function to the G1/G2/G3/G4 terminal.
0 – 1 – H – L	Bus connection to the function selector.
0 – S – V	Future use
+LK / -LK	Output 12Vdc (1 A max) / 24Vdc (0,5 A max) for electric lock.
MAX	Connection for SW80SD optional limit switch to select the maximum braking in the absence of power supply.
BRAKE	Braking regulation in the absence of power supply: L = low, M = medium, H = high.
USB	USB standard. Allows saving the door settings and loading the firmware updates.
СОМ	Connection for remote communication

Buttons	Description
OPEN	Open the door.
\uparrow	Scroll the menu and increase of selected values.
\checkmark	Scroll the menu and reduction of selected values.
ENTER	Button to select the menu and save the selected data.
ESC	Exit the menu.

5.4 ELECTRICAL CONNECTION OF FUNCTION SELECTOR

Connect the 0-1-H-L terminals of the function selector, by cable (not supplied by us), to the 0-1-H-L terminals of the electronic control.

Note: for lengths over 10 m, use a cable with 2 twisted-pairs.

After connecting, the function selector is working. If you want to limit the use only by authorized personnel, use proximity badges (13,56MHz ISO15693 and ISO14443 Mifare) or numeric code (max 50 badges and codes).

The function selector allows the following settings.



Symbol	Description
	OPEN DOOR When selected, the symbol lights up, the door is permanently open
JJ LL	Note: the leaves can still be handled manually.
	AUTOMATIC BI-DIRECTIONAL OPERATION
الخ	When selected, the symbol lights up, the door works automatic in bidirectional mode.
	RESET
	Select the symbol for 5 seconds, the automation performs the self-test and the automatic learning.
	CLOSED DOOR
	When selected, the door is permanently closed.
	Note: using the menu SEL > DLAY you can adjust the delay time to close the door.
	MANUAL OPERATION
	Select the symbol for 3 seconds, the symbol flashes and the door can be moved manually.
	AUTOMATIC PARTIAL OPERATION
JJ LL	operation of only one leaf
	AUTOMATIC ONE-WAY OPERATION
	When selected, the symbol lights up and automatic operation of the door is in one-way mode.
	FUNCTION SELECTOR IS NOT ACTIVE
A	The symbol lights up when the function selector is not active. To activate the temporary operation of the
	function selector is necessary to approach the badge to the NFC symbol (FSD1), or enter the code (FSD4),
FACE	Select the logo for 3 seconds (the lock symbol light off) the function selector is activated for 10 seconds
	Expired the time the function selector switches off (the lock symbol lights up).
Innovative automation	
	FSD1 - Authorized activation of function selector by badge.
	Approach the badge to the NFC symbol (the lock symbol light on), the function selector is activated for 10 seconds. Expired the time the function selector switches off (the lock symbol lights up)
	FSD4 - Authorized activation of function selector by numeric code
1	Press the logo, enter the code (maximum 5 numbers), press the logo for confirmation, (the lock symbol
234	light off), the function selector is activated for 10 seconds. Expired the time the function selector switches
5	off (the lock symbol lights up).
	BATTERY SIGNAL
	Battery symbol off = the door is operating with the mains supply
	Battery symbol on = the door is operating with battery power
	Battery symbol flashing = the battery is low or disconnected
	INFORMATION SIGNAL
	Information symbol on = It is necessary to perform the ordinary maintenance of the door.
-	- 1 flach = failure of electronic control or locking device:
1	- 2 flashes = mechanical failure:
	- 3 flashes = failure of sensor safety test:
	- 4 flashes = motor overtemperature.



Connect the sensor, using the supplied cable to the terminals of the electronic control as follows:

	5CB11	OS1 (PrimeMotionB), OS2 (PrimeMotionC)	Notes
U	0	White	
PENIN	1	Brown	
	1	Yellow	
0	3A (3B)	Green	

For more information, check the installation manual of the sensor.

5.6 ELECTRICAL CONNECTION OF SAFETY SENSOR

The safety sensors should be installed directly on the leaf of the door, and protect both the opening and the closing of the swing door.

To simplify the installation of the safety sensors, you can choose one of the following two options.

- OPTION 1: Connect the 2 sensors to each other, using the supplied cable. Connect only one of the 2 sensors to the electronic control terminals, as shown below.



	5CB11	SD3 (4SAFE ON SW)	SD4 (FLATSCAN SW)		5CB11	SD3 (4SAFE ON SW)	SD4 (FLATSCAN SW)
SAFETY	0				0	Brown	Brown
	0				0	Blue	Blue
	1			EJ	1	Green	Green
		Yellow	Yellow	SAF	1	Pink	Pink
	6A	White (DIP1=ON)	White (DIP1=ON)	0,	8A	Purple (DIP1=OFF)	Grey (DIP1=OFF)
	41				41	Red	Red

- OPTION 2: Connect each sensor to the electronic control terminals, as shown below.



	5CB11	SD3 (4SAFE ON SW)	SD4 (FLATSCAN SW)		5CB11	SD3 (4SAFE ON SW)	SD4 (FLATSCAN SW)
SAFETY	0	Brown	Brown		0	Brown	Brown
		Blue	Blue		0	Blue	Blue
	1	Green	Green	SAFETY		Green	Green
		Yellow	Yellow			Pink	Pink
	6A	White (DIP1=ON)	White (DIP1=ON)	0,	8A	Purple (DIP1=OFF)	Grey (DIP1=OFF)
	41	Red	Red		41	Red	Red

For more information, check the installation manual of the sensor.



5.7 ELECTRICAL CONNECTION OF A DOOR WITH 2 LEAVES

To coordinate the operation of two automatic swing doors with the closing overlap of the leaves (see figure), procedures as follows.

Using a 3-wire cable (1-H-L), connect the 2 automations MASTER-SLAVE, as shown in the figure.

Using the menu of the electronic control, set: ADV> SYNC> MST1 on MASTER automation and ADV> SYNC> SLV1 on SLAVE automation.

Connect the opening sensors as described in chapter 5.5 and connect the safety sensors as described in chapter 5.6.

If desired, connect the function selector, as shown in the figure.

Note: the partial opening of only one leaf is referred to the MASTER automation.





5.8. ELECTRICAL CONNECTIONS OF ELECTRIC LOCK

Automations for swing doors are compatible with most of the electric locks available in the market. Verify that power supply of the electric lock is 12Vdc (1 A max) or 24Vdc (0,5 A max).

- Connect the electric lock to terminals LK + and –LK of the electronic control.
- Set the electric lock power supply, using menu: ADV > LKPW > 12Vdc or 24Vdc.
- Set the type of electric lock operation, using menu: ADV > ELLK > LOCK or SAFE/AUTO.
- Set the operating time of the electric lock, using menu: ADV > TRLK > from 0,5 to 5,0 seconds.
- Set the start of the door opening delay time, using menu: ADV > TALK > from 0,5 to 5,0 seconds.

In the figure are shown the timing of the electric lock operation:

A = start of opening pulse and electric lock power supply on/off,

B = start of door opening,

C = end of electric lock power supply on/off.



6. ELECTRONIC CONTROL ADJUSTEMENT

The electronic control has 4 buttons and 4 alphanumeric displays to set all the necessary adjustments.

After turning on the electronic control, the display shows the word "MENU". The operation of the four keys are indicated in the table.

Keys	Description	
ENTER	Select button, each time you press the button you enter on the selected parameter. Save button, pressing for 1 seconds you "SAVE" the selected value. MENU = Main parameters menu ADV = Advanced parameters menu SEL = Function selector menu MEM = Memory management menu INFO = Information and diagnostics menu	Image: Correction of the sector o
ESC	Exit button, exit from all the parameter or exit from the menu.	
\uparrow	Scroll button, each press selects a menu item or increases the value of the selected item.	
\checkmark	Scroll button, each press selects a menu item or reduces the value of the selected item.	
↑ + ↓	To turn upside down the display, press the two scroll buttons simultaneously for 3 seconds.	

6.1 MENU (BASIC SETTINGS MENU)

Using the buttons \uparrow and \downarrow choose MENU, press ENTER to select and adjust the following parameters.

Display	Description	Factory settings
DOOR	Setting the automation type. Choose between the following values:	8051
DOOR TYPE	80S = SW80S automation	
	80S1 = SW80S1 automation	
ARM	Setting the type of arm. Choose between the following values:	SA
ARM TYPE	SA = sliding arm to pull	
	SA1 = sliding arm to push	
	AA = articulated arm to push	
VOP	Opening speed setting. Choose between the minimum and maximum:	50
OPENING	minimum value = 15 deg/s	
SPEED	maximum value = 70 deg/s	
VCL	Closing speed setting. Choose between the minimum and maximum:	30
CLOSING	minimum value = 15 deg/s	
SPEED	maximum value = 50 deg/s	
ТАС	Open door time setting. Choose between the minimum and maximum:	1
CLOSING TIME	NO = the door is always open	
	minimum value = 1 s	
	maximum value = 30 s	
PUSH	Force setting. Choose between the minimum and maximum:	10
MOTOR	minimum value = 1	
POWER	maximum value = 10	
LEAF	Setting the weight of the door. Choose between the following values:	MED
DOOR WEIGHT	MIN = light door	
	MED = medium door	
	MAX = heavy door	
RAMP	Set the door acceleration. Choose between the following values:	MED
ACCELERATION	SLOW = slow acceleration	
	MED = medium acceleration	
	FAST = fast acceleration	
BTMD	Setting operation of battery power device, in absence of electricity. Choose between the follow	ving NO
BATTERY	values:	
MODE	NO = battery not connected	
	EMER = emergency open	
	CONT = continuation of normal operation of the door, with last cycle of opening	
	Note: the number of operations with battery, depends on the efficiency of the battery, the we	ght of
	the doors and the present friction.	

6.2 ADV (ADVANCED PARAMETERS MENU)

Using the buttons \uparrow and \downarrow select ADV, press ENTER to select and adjust the following parameters.

Display	Description Factory	/ settings
8AEX	Exclusion of the operation of the sensor closing safety. Choose between the minimum and maximum	0
8A-	values:	-
EXCLUSION	minimum value = 0%	
	maximum value = 50%	
6AEX	Exclusion of the operation of the sensor opening safety. Choose between the minimum and	0
6A-	maximum values:	
EXCLUSION	minimum value = 0%	
	maximum value = 50%	
ST6A	Operation of 6A safety command, after the door stop. Choose between the following values:	CLOS
6A-SETTING	CLOS = automatic closing of the door	
	OPEN = continues the opening of the door	
ELLK	Selecting the electric lock. Choose between the following values:	NO
OPERATION	NO = electric lock not connected	
ТҮРЕ	LOCK = standard electric lock (security operation)	
	SAFE = electromagnet (safety operation)	
	AUIO = electromagnet (operation matched to the function selector)	
	Dever supply electric lock. Chaose between the following values:	10
	12 – 13V electric lock. Choose between the following values:	12
SUPPLY	12 - 12V electric lock	
ΤΛΙΚ	Time advance operating electric lock. Choose between the minimum and maximum values:	0.5
LOCK	minimum value -0 s	0.5
ADVANCE	maximum value = $5 s$	
TIME		
TRLK	Operating time of the electric lock. Choose between the minimum and maximum values:	0.5
OPERATION	minimum value = 0,5 s	
TIME	maximum value = 5 s	
LKSH	Setting of closing push for hooking the electric lock. Choose between the following values:	NO
LOCK	NO = no push	
HOOKING	MIN = light push	
	MED = medium push	
	MAX = heavy push	
PUCL	Setting the push on the closed mechanical stop. Choose between the following values:	NO
PUSH DOOR	NO = no push	
	MIN = light push	
	MED = medium push	
	MAX = neavy push	
	XIVIAX = very neavy push	NO
	Setting of the opening push. Choose between the following values.	NO
OPEN	VES = nuch enabled (disabled with ANG)	
HOLD	Setting the nucl of keeping the door open. Choose between the following values:	MED
HOLD DOOR	NO = no nush	IVILD
OPEN	MIN = light nush	
	MED = medium push	
	MAX = heavy push	
HAND	Manual operation of the door in power-assisted mode or with push opening. Choose between the	PUGO
MANUAL	following values:	
OPERATION	NO = disabled manual operation power-assisted	
	MIN = minimum manual operation power-assisted (Note: the safety devices are disabled)	
	MAX = maximum manual operation power-assisted (Note: the safety devices are disabled)	
	PUGO = push opening enabled	

Display	Description Factory	settings
ANG OPENING ANGLE	Selecting of the door opening angle. Choose between the following values: NO = the door opens up to the mechanical opening stop 50 240 = the door opens up to the selected angle (minimum angle = 50) Note: the value indicated refers to the arm angle and not to the door angle	NO
TAKO KO-CLOSING TIME	Open door time setting, after the 1-G1/G2/G3/G4 command (see menu settings: ADV > STG1/STG2/STG3/STG4 = KO/KO2). Choose between the minimum and maximum: minimum value = 1 s maximum value = 30 s NO = the door is always open NO = see MENU > TAC	NO
MOT MOTOR CIRCUIT	Setting the manual friction of the door, by means of the electrical connection of the motor windings. Choose between the following values: OC = manual door opening without friction (motor with open circuit windings) SC = manual door opening with friction (motor with short-circuit windings)	OC
T41 SAFETY TEST	Enable test for safety devices (in accordance with EN 16005). Choose between the following values: NO = test disabled YES = test enable	YES
SYNC DOOR SYNCHRO- NIZATION	Door with 2 leaves, setting of master-slave synchronization. Choose between the following values: NO = no synchronization (door with 1 leaf) MST1 = automation MASTER which opens first SLV1 = automation SLAVE which closes first MST2 = external automation MASTER which opens first (see menu: ADV > INK > EXT) SLV2 = external automation SLAVE which closes first (see menu: ADV > INK > EXT)	NO
SDLY DOOR DELAY	Door with 2 leaves, setting of delay of movement between Master-Slave. Choose between the following values: NO = leaves without overlap MIN = minimum delay MED = medium delay MAX = maximum delay	MED
INK INTER-LOCKED DOOR	Interlocked operation of two automatic doors, the opening of a door is permitted only when the other door is closed. Choose between the following values. NO = no interlock INT = internal door EXT = external door	NO
ID IDENTIFICATION NUMBER	If several automations are connected to the network via the 1-H-L terminals, they must have different identification numbers. Choose between the following values: NO = no network 0/1/2/3/4/5/6/7/8/9/10/11/12/13/14	NO
SPR SPRING OPERATION	Select the type of spring operation. CLOS = the spring closes the door OPEN = the spring opens the door	CLOS

Display	Description Factory settings					
STG1 G1-SETTING	INPUT COMMANDS BETWEEN 1-G1 AND 1-G2 TERMINALS. Choose between the following values. NO = no function	NO				
STG2 G2-SETTING	 KO = opening command KO2 = semi-priority opening command (not active with function selector in closed door) KC = closing command VOPN = N.O. opening limit-switch STEP = Step-by-step contact N.O. The closing of the contact performs in sequence the opening (disabled automatic closure) and the closing of the door. SAM = Automatic setting command of function selector. The closing of the contact changes the function selector mode (see menu: SEL > SAM1 and SEL > SAM2). EMER = Emergency opening contact N.C. The opening of the 1-G1 contact opens the door. RSET = reset command CAB = Step-by-step contact N.O. The closing of the contact performs in sequence the closing of the door (disabling 3A/3B terminals, enabling the signaling for occupied cabin) and the opening of the 					
	door (enabling 3A/3B terminals, disabling the signaling for occupied cabin). INKE = Interlocked operation exclusion command between two doors (see menu: ADV > INK). PART = Opening command for the MASTER door only (see menu: ADV > SYNC).					
	OUTPUT SIGNALS BETWEEN 0-G1 AND 0-G2TERMINALS (12Vdc 20mA). Choose between the following values.					
	BELL = The output is activated for 3 seconds when people enter the store (through the sequential activation of the contacts: 1-3B and 1-3A). SERV = The output is activated when the door reaches the number of maintenance cycles, set using the menu: INFO > SERV.					
	 WARN = The output is activated when at least one warning remains active for 5 minutes. For remove the alarm signal make a reset or turn off the power supply. CLOS = The output is activated when the door is closed OPEN = The output is activated when the door is open AIR = The output is activated when the door is not closed 					
	LAMP = The output is activated when the door is moving CABS = Signaling of the occupied cabin (see menu: ADV > STG2 > CAB) INK = Red traffic light signaling for interlocked doors (see menu: ADV > INK) PWOF = The output is activated in the absence of power supply (W128) HAND = The output is activated when the door is opened by hand					
STG3 G2-SETTING	INPUT COMMANDS BETWEEN 1-G3 AND 1-G4 TERMINALS. Choose between the following values. NO = no function	NO				
STG4 G4-SETTING	KO = opening command KO2 = semi-priority opening command (not active with function selector in closed door) KC = closing command VOPN = N.O. opening limit-switch					
	STEP = Step-by-step contact N.O. The closing of the contact performs in sequence the opening (disabled automatic closure) and the closing of the door. SAM = Automatic setting command of function selector. The closing of the contact changes the function selector mode (see menu: SEL > SAM1 and SEL > SAM2). EMER = Emergency opening contact N.C. The opening of the 1-G2 contact opens the door.					
	RSET = reset command CAB = Step-by-step contact N.O. The closing of the contact performs in sequence the closing of the door (disabling 3A/3B terminals, enabling the signaling for occupied cabin) and the opening of the door (enabling 3A/3B terminals, disabling the signaling for occupied cabin). INKE = Interlocked operation exclusion command between two doors (see menu: ADV > INK). PART = Opening command for the MASTER door only (see menu: ADV > SYNC).					

6.3 SEL (FUNCTION SELECTOR MENU)

Using the buttons \uparrow and \downarrow select SEL, press ENTER to select and adjust the following parameters.

Display	Description Eactory s	ottings
Display	ractory s	ettings
MODE	Displaying of operating mode of function selector device. Choose between the following values:	NO
SELECTOR	NO = no mode	
WIODE	OPEN = open door	
	AUTO = automatic bi-directional operation	
	CLOS = closed door	
	1D = automatic one-way operation	
	PA = automatic partial operation	
	1DPA = automatic one-way operation and partial	
	HAND = manual operation	
SECL	How to activate the function selector. Choose between the following values:	NO
SELECTOR	NO = function selector always accessible	
LOCK	LOGO = function selector accessible by selecting the logo for 3 seconds	
	TAG = function selector accessible with badge and numeric code	
DLAY	Setting delay time function closed door. Choose between the minimum and maximum values:	1
DELAY	minimum value = 1 s	
CLOSED	maximum value = 5 min	
DOOR		
TMEM	Saving procedure of badge and numeric code for function selector. Choose between the following	NO
	values.	
MEMORISE	NO = no saving	
	SMOD = Saving badge and numeric code for activation of the function selector:	
	 press the ENTER button for 1 second, the display shows REDY, 	
	FSD1 - approach the badge to the function selector (in front of the NFC symbol), the display shows	
	the badge code,	
	FSD4 - press the logo, enter the code (from 1 to 5 numbers), press the logo for confirmation, the	
	display shows the numeric code (Note: the numeric code can be stored only if SECL=TAG),	
	 wait for 20 seconds or press the ESC button. 	
	OPEN = Saving badge and numeric code for activation of priority opening: proceed as SMOD	
	Note: if the badge and the numeric code is not recognized the display shows the message UNKN, or if	
	the badge and the numeric code is already stored will show the message NOK.	
	You can store a total maximum of 50 badges and numeric codes.	
	APP = Saving phone for activation of the FACE SRC App	
	- press the ENTER button for 1 second, the display shows REDY,	
	FSD1 - approach the phone to the function selector, in front of the NFC symbol.	
	Note: Look for the most suitable position.	
TMAS	It is possible to create master badge and master numeric code that allows the saving of the badges	NO
TAG MASTER	and the numeric codes, without the use of the menu. Choose from the following values.	
	NO = no saving	
	MMOD = creation of the master badge and master numeric code to saving badges and numeric codes	
	for function selector activation: proceed as SMOD.	
	MOPE = creation of the master badge and master numeric code to saving the badges and numeric	
	codes of opening priority: proceed as SMOD.	
	Note: if the badge and the numeric code is not recognized the display shows the message UNKN, or if	
	the badge and the numeric code is already stored will show the message NOK.	
	FSD1 - The use of the master badge is the following:	
	- approach the master badge to the function selector (in front of the NEC symbol) the buzzer emits 2	
	beeps at the beginning of the storage procedure.	
	- approach the hadges that you want to store one at a time to the function selector (in front of the	
	NEC symbol), the buzzer emits 1 been of confirmation storage	
	- wait for 20 seconds, the buzzer emits 2 beeps at the end of the storage procedure	
	FSD4 - The use of the master numeric code is the following:	
	- press the logo enter the master numeric code press the logo for confirmation the huzzer emits 2	
	heens at the heginning of the storage procedure	
	- press the logo enter the new code (from 1 to 5 numbers) press the logo for confirmation the	
	huzzer emits 1 been of confirmation storage	
	wait for 20 seconds, the huzzer emits 2 beens at the end of the storage procedure	
	- wait for 20 seconds, the buzzer ennis 2 beeps at the end of the storage procedure.	
	Note. If the bauge and the numeric code is not stored, the buzzer emits no beeps.	

Display	Description Factory settings					
TDEL	Cancellation procedure of badge and numeric code. Choose between the following values.					
TAG DELETE	NO = no cancellation					
	YES = badge and numeric code cancellation					
	- press the ENTER button for I second, the display shows REDY,					
	the badge code,					
	FSD4 - press the logo, enter the code (from 1 to 5 numbers), press the logo for confirmation, the					
	display shows the numeric code.					
	- Wait for 20 seconds or press the ESC button.					
TERA	How to erase all stored badges and numeric codes. Choose between the following values:	NO				
TAG TOTAL	NO = no erase					
ERASE	YES = cancellation of all badges and numeric codes					
SAM1	Changing the function selector function when the 1-G1/G2/G3/G4 contact closes.	CLOS				
SELECTOR	Activate the SAM mode using the menu ADV > STG1/STG2/STG3/STG4 > SAM.					
MODE	Connect the contact of a clock to 1-G1/G2/G3/G4 terminals, and choose between the following					
	Values.					
	AUTO – automatic hi directional operation					
	1D = automatic one-way operation					
	HAND = manual operation					
SAM2	Changing the function selector function when the 1-G1/G2/G3/G4 contact opens	CLOS				
AUTOMATIC	Activate the SAM mode using the menu ADV > STG1/STG2/STG3/STG4 > SAM.					
MODE	Connect the contact of a clock to 1-G1/G2/G3/G4 terminals, and choose between the following values:					
	OPEN = open door					
	AIITO = automatic bi-directional operation					
	CLOS = closed door					
	1D = automatic one-way operation					
F \4/	HAND - Manual operation					
FIRMWARE	Programming procedure of function selector.					
UPGRADE	Insert the OSB memory in the electronic control.					
	From this menu, choose the firmware version you want.					
	"WAIT • • • •"), at the end the display shows "SAVE".					
	After the procedure, remove the USB memory from the electronic control and store it for future use.					
	Note: in the case of programming error or missing firmware (W103), proceed as follows: disconnect the power supply, insert the USB memory, give power supply, and repeat the programming procedure from this menu.					
VER	Displaying the firmware version of function selector (eg = 0435).					
	You can upload the badges and numeric codes used in another automation, already stored in the LISB	NO				
TAG INPUT	memory. Choose between the following values:	110				
	NO = no upload					
	YES = upload the badges and numeric codes from the USB memory					
TOUT TAG OUTPUT	You can save the stored badges and numeric codes in the USB memory. Choose between the following values:	NO				
	NO = no save					
	YES = save the stored badges and numeric codes in the USB memory					

6.4 MEM (MEMORY MANAGEMENT MENU)

Using the buttons \uparrow and \downarrow select MEM, press ENTER to select and adjust the following parameters.

Display	Description	Factory set	tings
FSET FACTORY SETTINGS	Restore all settings to factory defaults. Choose between the following values: NO = no restore. YES = restore to factory settings.		NO
FW	Programming procedure of electronic control.		
FIRMWARE UPGRADE	Insert the USB memory in the electronic control.		
	From this menu, choose the firmware version you want.		
	Press ENTER until it starts the programming procedure that lasts about 30 seconds (the shows "WAIT $\bullet \bullet \bullet$ "), at the end the display shows "SAVE".	e display	
	After the procedure, remove the USB memory from the electronic control and store it fouse.	or future	
	Note: in the case of programming error or missing firmware (W100), proceed as follows: dis the power supply, insert the USB memory, give power supply, the programming procedu automatically.	sconnect re starts	
SIN	You can upload the menu settings used in another automation, already stored in the USB m	emory.	NO
SETTING INPUT	Choose between the following values:		
-	NO = no upload		
	YES = upload the menu settings from the USB memory		
SOUT SETTING OUTPUT	You can save the menu settings of automation in use, in the USB memory. Choose betw following values:	een the	NO
	NO = no save		
	YES = save the menu settings of automation in the USB memory		

6.5 INFO (INFORMATION AND DIAGNOSTICS MENU)

Using the buttons \uparrow and \downarrow select INFO, press ENTER to select and adjust the following parameters.

Display	Description Factory	v settings
VER VERSION	Displaying the firmware version of electronic control (eg = 0120).	
CYCL CYCLES	Shows the number of cycles of the door (1 = 1.000 cycles, 9000 = 9.000.000 cycles).	0000
SERV SERVICE SIGNAL	Enabling the signaling of routine maintenance of the door. NO = no signaling 1 = 1.000 cycles / 9000 = 9.000.000 cycles	0000
LOG INFO OUTPUT	You can save the following information in the USB memory (sw80_log.txt): the last 20 warnings, the menu settings, and the electronic devices connected to automation. Choose between the following values: NO = no save YES = save the information in the USB memory	NO
WARN	Displaying of the last 10 warnings (the warning number 0 is the last):	0
WARNING	0.xxx / 1.xxx / 2.xxx / 3.xxx / 4.xxx / 5.xxx / 6.xxx / 7.xxx / 8.xxx / 9.xxx	

DISPLAY	SEL	FLASH	WARNING	СНЕСК
W001	i	1	Encoder error	Check encoder connection
W002	i	1	Motor short circuit	Check the connection of the motor
W003	i	1	Motor control error	Electronic control failure
W010	i	2	Direction reversed	Check the presence of obstacles
W011	i	2	Running too long	Check the connection between the motor and leaf
W012	i	2	Running too short	Check the presence of obstacles
W013	i	2	Overrun	Check the mechanical stops
W100	-	-	Programming error	Repeat the programming procedure in MEM > FW menu
W103	-	-	Programming error Selector	Repeat the programming procedure in SEL > FW menu
W127	-	-	Automation reset	The automation performs a self-test
W128		on	No power supply	Check the power supply
W129	B	1	No battery	Check the battery connection
W130	B	1	Low Battery	Replace or recharge the battery
W140	i	3	6A safety test failure	Check the safety sensor connection
W142	i	3	8A safety test failure	Check the safety sensor connection
W145	i	4	Motor overtemperature (first step)	The door reduces the speed
W146	i	4	Motor overtemperature (second step)	The door stops
W150	i	2	Obstacle in opening	Check the presence of obstacles
W151	i	2	Obstacle in closing	Check the presence of obstacles
W152	i	2	Door locked open	Check the presence of locks
W153	i	2	Door locked closed	Check the presence of locks
W156	i	2	Door moved manually	Wait about 5 seconds
W160	i	1	Synchronization error	Check the ADV > SYNC and the ADV > INK menu
W256	i	-	Power on	-
W257	i	-	Firmware update	-
W320	i	on	Signaling of maintenance	Check the INFO > SERV menu
W330	i	1	Tuning between motor and electronics	Wait about 3-30 seconds

7. START-UP PROCEDURE OF THE AUTOMATIC SWING DOOR

7.1 Preliminary checks.

At the end of the installation, move the doors manually and make sure that operation is smooth and without friction. Check the solidity of the structure and the proper attachment of all the screws. Check the correctness of all electrical connections. Make sure you have installed the mechanical stop of the open door.

Before connecting any security devices, leave the jumper on terminals safety (41-6A, 41-8A).

7.2 Giving power supply and connect the battery, if present.

Note: every time you switch on the automation performs a self-test (from 3 to 30 seconds). The first opening and closing cycle is at low speed to allow the automatic learning.

To ensure that the electronic control has the factory settings, restore via the menu:

MEM> FSET> YES (confirm by pressing ENTER for 1 second).

Select the type of automation via the menu: MENU > DOOR > 80S / 80S1.

If the door is with articulated arm to push, set as follow: MENU > ARM > AA.

If the door is with sliding arm to push, set as follow: MENU > ARM > SA1.

Perform the menu settings as described in Chapter 6. Use OPEN button to perform the opening door, and verify the correct operation of the door.

Note: the automation automatically detects any obstacles during the closing movement (reversal movement) and opening (stopping movement).

If present, connect the electric lock of the door to the terminals (-LK $\ +LK$) of electronic control, and make the settings available in the ADV menu. described in Chapter 5.8.

7.3 Connect one at a time, control and safety devices to protect the opening and closing cycle of the door, as described in Chapter 5.6, and verify proper operations.

Note: verify that the opening access is properly protected by safety sensors, in accordance with the requirements of the European standard EN16005 (annex C), or make speed adjustments in accordance with European standards EN16005 (Annex G), as shown in chapter 8.

7.4 At the end of the automation starting, deliver to the owner the user instructions, including all warnings and information necessary to maintain the security and functionality of the automatic door.

Automations are feature of label containing the required information by European standards EN16005 and EN60335-2-103.

Note: the manufacturer of the automatic swing door have to add his own label identifying the installation.







8. ADJUSTMENT OF THE KINETIC ENERGY OF THE DOOR

To reduce the kinetic energy of the door in area B not protected by safety sensors, make the following adjustments. Adjust the opening speed (VOP) so as to open the door (from 0° to 80°) at the times indicated in the table. Adjust the closing speed (VCL) so as to close the door (from 90° to 10°) at the times indicated in the table.



	Time [s]										
	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0
						B [m]					
	0,16	0,24	0,32	0,40	0,48	0,56	0,64	0,72	0,80	0,88	0,95
Lm [m]						A [m]					
0,7	0,54	0,46	0,38	0,30	0,22	0,14	0,06	-	-	-	-
0,8	0,64	0,56	0,48	0,40	0,32	0,24	0,16	0,08	-	-	-
0,9	0,74	0,66	0,58	0,50	0,42	0,34	0,26	0,18	0,10	0,02	-
1,0	0,84	0,76	0,68	0,60	0,52	0,44	0,36	0,28	0,20	0,12	0,05
1,1	0,94	0,86	0,78	0,70	0,62	0,54	0,46	0,38	0,30	0,22	0,15
1,2	1,04	0,96	0,88	0,80	0,72	0,64	0,56	0,48	0,40	0,32	0,25
1,3	1,14	1,06	0,98	0,90	0,82	0,74	0,66	0,58	0,50	0,42	0,35
1,4	1,24	1,16	1,08	1,00	0,92	0,84	0,76	0,68	0,60	0,52	0,45
1,5	1,34	1,26	1,18	1,10	1,02	0,94	0,86	0,78	0,70	0,62	0,55

9. TROUBLESHOOTING

In addition to the following list of possible problems, there are warnings provided by the display, as described in chapter 6.5.

Problem	Possible causes	Remedy		
The automation does not	No power supply (display off).	Check the power supply.		
open or close.	Short circuited external accessories.	Disconnect all accessories from terminals 0-1 and reconnect them one at a time (check for voltage 12V).		
	The door is locked by bolts and locks.	Check the freely move of the doors		
The automation does not perform the functions set.	Function selector incorrectly set.	Check and correct the settings of the function selector.		
	Control devices or safety always activated.	Disconnect devices from the terminal and verify the operation of the door.		
The movement of the doors isn't linear, or reverse the movement for no reason.	The automation does not successfully perform the automatic learning.	Perform a reset or power off and power on the automation.		
The automation opens but does not close	Anomalies during the safety devices test.	Jumper contacts one at a time 41 -6A , 41 - 8A.		
	The opening devices are activated.	Verify that the opening sensors are not subject to vibration, do not perform false detections or the presence of moving objects in the field of action.		
	The automatic closing doesn't work.	Check the settings of the function selector .		
Safety devices not activating.	Incorrect connections between the safety devices and electronic control.	Check that the safety contacts of the devices are properly connected to the terminal blocks and the relative jumpers have been removed.		
The automation opens by itself.	The opening and safety devices are unstable or detect moving bodies	Verify that the opening sensors are not subject to vibration, do not perform false detections or the presence of moving bodies in the field of action.		

10. AUTOMATIC SWING DOOR ROUTINE MAINTENANCE PLAN

To ensure proper operation and safe use of the automatic swing door, as required by European standard EN16005, the owner has to perform routine maintenance by qualified personnel.

Except for routine cleaning of the door, the responsibility of the owner, all maintenance and repair work must be carried out by qualified personnel.

The following table lists tasks related to routine maintenance, and the frequency of intervention related to an automatic swing door operation with standard conditions. In the case of more severe operating conditions, or in the case of sporadic use of the automatic swing door, the frequency of maintenance can be consistently adequate.

Task	Frequency		
Remove the power supply, open the automation and perform the following checks and adjustments.	Every 6 months or every 200.000 cycles.		
- Check all screws fastening of components within the automation.			
- Check the state of wear of the hinges (if necessary replace them).			
- Verify correct mounting of the arm on the door.			
- Check the correct force of the closing spring.			
- If present, verify proper engagement of the electric lock.			
Connect the power supply and perform the following checks and adjustments.	Every 6 months or every 200.000		
- Check the correct operation of the control devices and safety.	cycles.		
 Check the detection area of the security sensors complies with the requirements of the European standard EN16005. 	Note: the EN16005 European standard requires the verification of		
- If present, verify the correct operation of the electric lock.	the safety functions of the automation and of the safety devices		
- If present, verify the correct operation of the battery power device (if necessary replace the battery).	at least once a year.		

All maintenance, replacement, repair, update, etc.. must be written into the proof book, as required by European standard EN16005, and delivered to the owner of the automatic swing door.

For repairs or replacements of products, original spare parts must be used.

10.1 DISPOSAL OF PRODUCTS



The packaging materials (cardboard, plastic, and so on) should be disposed of as solid household waste, and simply separated from other waste for recycling.

Our products are made of various materials. Most of these (aluminum, plastic, iron, electrical cables) are classified as solid household waste. They can be recycled by separating them before dumping at authorized city plants.

Whereas other components (control boards, batteries, and so on) may contain hazardous pollutants.

These must therefore be disposed of by authorized, certified professional services.

Before disposing, it is always advisable to check with the specific laws that apply in your area.

DO NOT DISPOSE IN THE ENVIRONMENT.

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