ENGLISH

FACE

Automatic Doors

USER INSTRUCTIONS FOR SWING DOOR

SW2	LIGHT
SW5	HEAVY
SW80S1	SPRING
SW80S	HEAVY SPRING

1. CORRECT USE OF THE AUTOMATIC SWING DOOR

The FACE automations for automatic swing doors have been designed and constructed in accordance with European standard EN 16005, also the innovative and advanced electronic control system makes the door safer, as the maximum forces developed are limited to non-hazardous values.

It’s still need to be observed the following precautions to ensure safety in relation to intended use, pedestrian traffic of people.

1.1 GENERAL SAFETY INSTRUCTION

These warnings are an integral and essential part of the product and must be supplied to the user. Read them carefully as they contain important information regarding the safe use and maintenance. You must keep these instructions and pass them on to subsequent users of the system.

This product must be used only for the purpose for which it designed. Any other use is considered improper and therefore dangerous. The manufacturer can’t be held responsible for any damage caused by improper, incorrect or unreasonable.

Avoid the rest of the people in the vicinity of the area occupied by the stroke of the swing doors. Do not obstruct the motion of the automatic swing door as it may cause dangerous situations.

It's forbidden run toward a closed door, as the reaction time of the opening devices may be insufficient to avoid a collision.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Do not allow children to play with the appliance. Cleaning and user maintenance must not be carried out by children without supervision.

In the event of failure or malfunction of the product, disconnect the power supply, avoid any attempt to repair or intervene directly and contact only qualified personnel. Failure to comply with the above may create a hazardous situation.

To ensure the efficiency of the system and its proper functioning is essential to follow the manufacturer's instructions must be performed by qualified personnel the periodic maintenance of automatic swing door. In particular, it is recommended that the periodic verification of the correct operation of all safety devices. All installation, maintenance and repair work must be documented and made available to the user.

1.2 RESTRICTIONS USE AND RESIDUAL RISKS

The European standard EN 16005 defines clearly what are the main hazards and the necessary protection to secure the use of an automatic swing door in standard conditions. Nevertheless, there may be particulary situations where it is necessary to assess the possible risks and adopt the related solutions for the protection or risk reduction.

For example, the particular installation can be generated by: the architectural requirements, the type of use, from the environment of use, from the spaces in the building, the type of users, etc.

It's the installer duty to identify and assess these risks and notify the owner of the solutions adopted, including the existence of residual risks or the need for restrictions on use, filling in the following table.

Rif.	Residual risk	Adopted solution

2. STANDARD INSTALLATION

Rif.	Code	Description
1	SW2	SW2 automation (Light) for swing doors
	SW5	SW5 automation (Heavy) for swing doors
	SW80S1	SW80S1 automation (Spring) for swing doors
	SW80S	SW80S automation (Heavy Spring) for swing doors
2	SWSA, SW80SA	Sliding arm to pull
	SWAA, SW80AA	Articulated arm to push
	SWSA1, SW80SA1	Sliding arm to push
3	SD3, SD4	Safety sensor
4	OS1, OS2	Opening sensor
5	FSD5, FSD6	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.

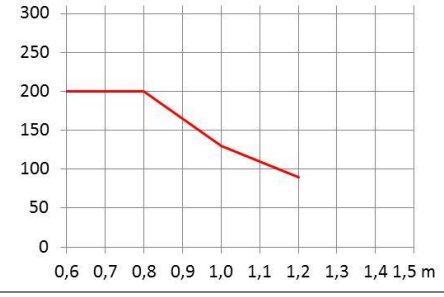
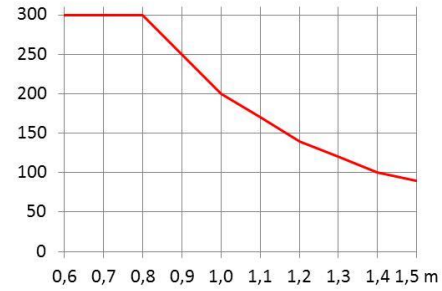
The given operating and performance features can only be guaranteed with use of FACE accessories and safety devices.

This is a translation of the original Italian user instruction. 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.

3. TECHNICAL DATA

Code	Model	Product dimensions	Rated load	Maximum load
SW2	LIGHT	87 x 117 x 443 mm	20 Nm	
SW5	HEAVY	104 x 118 x 463 mm	40 Nm	
SW80S1	SPRING	88 x 130 x 540 mm	40 Nm	
SW80S	HEAVY SPRING	88 x 130 x 540 mm	40 Nm	

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.

4. MANUAL SWING DOOR USE

The FACE automations for automatic swing doors are extremely reversible, and allow manual handling of the doors without additional effort.

The situations in which it is necessary to move the door manually are mainly two:

- For cleaning the doors, the glasses and external slides of the automation;
- In case of power failure or in damaged of the automation.

Note: in both cases, should be opened any latches and locks fitted on the doors.

4.1 MANUAL DOOR USE FOR DOOR CLEANING OPERATION

The manual handling of the door is always possible, select the door open mode from function selector.

Note: in the absence of the function selector, you can keep the door open mode via a switch connected to terminals 1-3A of electronic control.

4.2 MANUAL DOOR USE IN ABSENCE OF POWER SUPPLY OR IN DAMAGED CASE

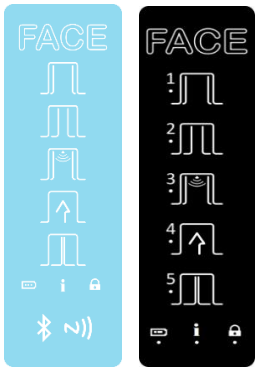
The manual handling of the door is always possible even in case of power failure, or in damaged case of the automation.

To remove the power supply, for example in case of automation failure, turn off the isolating switch arranged in the electrical system.

5. ELECTRONIC FUNCTION SELECTOR USE

ATTENTION: the function selector must be used by authorized personnel only; if it is installed in a place accessible to the public, the function selector must be protected by a proximity badge (13.56MHz ISO15693 and ISO14443 Mifare) or by a numeric code (max 40 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. Note: the leaves can still be handled manually. **LOW SPEED OPERATION** Select the symbol for 5 seconds (double beep), the AUTOMATIC symbol flashes and the door works without safety sensors with reduced speed. Note: this mode must be used temporarily in the event of a malfunction of the safety sensors.
	AUTOMATIC PARTIAL OPERATION In the case of a door with 2 automations, when selected, the symbol lights and allows the automatic operation of only one leaf.
	AUTOMATIC BI-DIRECTIONAL OPERATION 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.
	AUTOMATIC ONE-WAY OPERATION When selected, the symbol lights up and automatic operation of the door is in one-way mode.
	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 (SEL > MODE = OFF)** Select the symbol for 3 seconds, the symbol flashes and the door can be moved manually. Note: the control and safety sensors are deactivated.
	PROTECTED FUNCTION SELECTOR The symbol lights up if the function selector is protected. To activate the temporary operation of the function selector is necessary to approach the badge to the NFC symbol, or enter the code, or select for 3 seconds the logo.
FACE	**ACTIVATION OF FUNCTION SELECTOR BY LOGO (SEL>SECL=LOGO)** 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). Note: the function selector logo flashes when the CAN bus communication is not working (H-L terminals).
 1 2 3 4 5	**ACTIVATION OF FUNCTION SELECTOR BY BADGE (SEL>SECL=TAG)** Approach the badge to the NFC symbol (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). **ACTIVATION OF FUNCTION SELECTOR BY NUMERIC CODE (SEL>SECL=TAG)** Press the logo, enter the code (maximum 5 numbers), press the logo for confirmation, (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).
	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. Information symbol flashing = shows the presence of alarms: - 1 flash = failure of electronic control or locking device; - 2 flashes = mechanical failure; - 3 flashes = failure of sensor safety test; - 4 flashes = motor overtemperature.

6. TROUBLESHOOTING

The following list of possible problems must be used by qualified personnel.

Problem	Possible causes	Remedy
The automation does not open or close.	No power supply (display off).	Check the power supply.
	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.

7. WARNINGS ON THE ELECTRONIC CONTROL DISPLAY AND ON THE FUNCTION SELECTOR

Warnings on the electronic control display must be used by qualified personnel.

DISPLAY	SEL	FLASH	WARNING	CHECK
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
W110	i	1	Internal memory error	Electronic control failure
W127	-	-	Automation reset	The automation performs a self-test
W128	battery	on	No power supply	Check the power supply
W129	battery	1	No battery	Check the battery connection
W130	battery	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

8. 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. - 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. - In the case of SW4 automation, check the correct force of the closing spring. - If present, verify proper engagement of the electric lock.	Every 6 months or every 200.000 cycles.
Connect the power supply and perform the following checks and adjustments. - Check the correct operation of the control devices and safety. - Check the detection area of the security sensors complies with the requirements of the European standard EN16005. - If present, verify the correct operation of the electric lock. - If present, verify the correct operation of the battery power device (if necessary replace the battery).	Every 6 months or every 200.000 cycles. Note: the verification of the automation security functions and safety devices must be made at least 1 time per 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.

8.1 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.

PROOF BOOK

FOR PEDESTRIAN AUTOMATIC DOORS

ACCORDING TO MACHINES DIRECTIVE 2006/42/CE AND EUROPEAN STANDARD EN 16005

This proof book contains technical references and records of installation, maintenance, repairs and alterations carried out and must be made available for any inspections by authorised bodies.

SPECIFICATIONS OF THE AUTOMATIC DOOR AND INSTALLATION

Manufacturer / Installer: _____
Name, address and reference person

Customer / Owner: _____
Name, address and reference person

Order number: _____
Number and date of customer order

Model and description: _____
Type of door

Dimensions and weight: _____
Doorway width, dimensions and weight of the leaves

Serial number: _____
Number for clear identification of the door

Location: _____
Address of installation

LIST OF COMPONENTS INSTALLED

The technical features and performances of the components listed below are documented in the relevant installation manuals and/or on the label on the component itself.

Drive unit: _____
Model, type, serial number

Motor: _____
Model, type, serial number

Electronic control: _____
Model, type, serial number

Safety devices: _____
Model, type, serial number

Control devices: _____
Model, type, serial number

Other devices: _____
Model, type, serial number

Other components: _____
Model, type, serial number

START-UP REPORT

Tick the box corresponding to the work made: C = Comply, NC = Not comply, NA = Not applicable.

Step	Description	C	NC	NA
1	Check the existing structure and the fixing of the automation			
2	Check of mechanical stops, and the fixing of all screws			
3	Check the mechanical stop on the floor			
4	Manually checked that the leaf moves without friction			
5	Check of electrical connection of devices			
6	Check the detection area of the opening sensor			
7	Check the detection area of the safety sensor			
8	Check the additional opening controls (buttons, key contacts, etc.)			
9	Check the function selector			
10	Check the battery operation			
11	Check the electric locking device operation			
12	Check the opening and closing speed			
13	Delivered the declaration of conformity to the owner			
14	Delivered the user instructions to the owner			
15	Delivered the proof book to the owner			

Date	Technician’s signature	Customer’s signature

DESCRIPTION OF THE WORK Tick the box corresponding to the work carried out. Describe possible residual risks and/or foreseeable improper use.		
[ ] Installation **[ ]** Start-up **[ ]** Adjustments **[ ]** Maintenance **[ ]** Repairs **[ ]** Alterations		
Date	Technician’s signature	Customer’s signature

DESCRIPTION OF THE WORK Tick the box corresponding to the work carried out. Describe possible residual risks and/or foreseeable improper use.		
[ ] Installation **[ ]** Start-up **[ ]** Adjustments **[ ]** Maintenance **[ ]** Repairs **[ ]** Alterations		
Date	Technician’s signature	Customer’s signature

DESCRIPTION OF THE WORK Tick the box corresponding to the work carried out. Describe possible residual risks and/or foreseeable improper use.		
[ ] Installation **[ ]** Start-up **[ ]** Adjustments **[ ]** Maintenance **[ ]** Repairs **[ ]** Alterations		
Date	Technician’s signature	Customer’s signature

DECLARATION OF CONFORMITY

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

CE

Manufacturer: _____

Address: _____

DECLARES THAT:

The Product: _____

Location: _____

It complies with the Machines 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

_____

_____

_____

The technical documentation is managed by:

Name: _____

Address: _____

Place and date: _____

Name: _____

Position: _____

Signature: _____