

USER'S MANUAL FOR SLIDING DOOR OPERATOR DUALCORE SERIES

OPERATOR MODEL	SERIAL NUMBER	DATE
<input type="checkbox"/> Dualcore LH100		
<input type="checkbox"/> Dualcore LH140		

Purpose of the manual

These instructions are intended for the manager or user of a SESAMO DUALCORE SERIES automatic doors installation. In order to obtain the best performance from the automatism, Sesamo recommends that you read and carefully follow the user instructions in this manual. This device has been designed for the automation of sliding doors. Any other use will be considered contrary to the use provided for by the manufacturer who, therefore, cannot be held responsible. Do not tamper with or modify the internal equipment of the automatism or any of the safety devices provided in the control unit for any reason. The manufacturer accepts no responsibility in the event the internal parts of the automatism are modified or tampered with or if safety devices are used in the system which are different from those indicated by the manufacturer.

Operation of the DUALCORE SERIES automatisms

Power the automatism with the mains voltage of 230V.

The automatism carries out a low-speed manoeuvre during which the length of the passageway is stored in the memory; the wings will first open and then close, stopping in the closed position. If the emergency battery is installed, when the power returns the automatism will not perform the limits storage manoeuvre but will restore the operation logic that was present before the power failure.

At this point the automatism is ready to operate with modes that depend on the type of peripherals and accessories installed and the logic selected using the selector; it will carry out the automatic opening and closing of the doors so as to allow the continuous passage of people in complete safety.

The opening of the wings can be controlled by detection sensors, by the advanced or basic selector and by the push buttons for the manual control; the opening manoeuvre can be followed by a pause or by the automatic reclosing of the doors depending on the logic chosen (see the description of the logics selector).

The idle time of the wings in the open position facilitates the passage of people according to the needs of the customer, the pause time can be adjusted during installation.

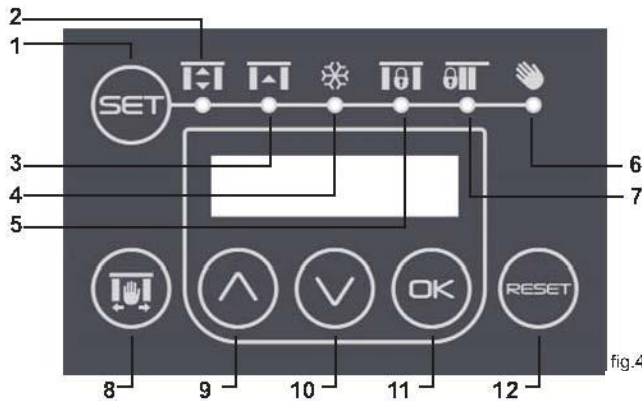
The closing of the wings occurs automatically at the end of the pause time, at a slower speed than the opening. A particular type of operation, "semi-automatic", can be selected during installation; in this condition the closing of the wings does not occur automatically but must be controlled manually by the proper push button.

The safety of the automatism is ensured by the photocells or active safety sensors that detect any presence of obstacles in the sliding zone and prevent the reclosing of the wings if necessary.

For additional safety, the automatism is equipped with a sophisticated microprocessor device that, in case of danger, limits the thrust force of the wings so as not to pose a hazard for the people in transit.

For safety reasons, the automatism is designed so that it is always possible, even during power failure and with no battery, to manually move the wings after having released the locking device (if installed) with the special key.

Installation with the advanced selector



1	Logic selection
2	2 radar
3	1 radar
4	Partial opening
5	Stop open
6	Semi-automatic logic mode
7	Stop close
8	Command semi-automatic logic mode
9	Scroll up
10	Scroll down
11	Confirm
12	Reset

With Advanced selector is possible to select the following operation logics:

Logic selection

- **Stop Close:** the automatism controls the complete closure of the door wings. In this logic the inputs START1 and START2 of the electronic control card are not monitored; if present, the electric locking system blocks the door wings.
- **Stop Open:** the automatism controls the complete opening of the door wings. In this logic the inputs START1 and START2 of the electronic control card are not monitored.
- **2 radar (Entry-exit radar):** both the inputs START 1 and START 2 of the electronic control card are monitored. A signal originating from a sensor connected to one of these inputs triggers the opening and consequent closing of the door wings. The electric locking system, if present, never blocks the door wings.
- **1 radar (Exit-only radar):** only the input START 2 of the electronic control card is monitored. A signal originating from a sensor connected to this input triggers the opening and consequent closing of the door wings. The electric locking system, if present, blocks the door wings every time that these reach the position of complete closure.
- **Semi-automatic logic mode :** the automatism controls the complete closure of the door wings. In this logic the inputs START1 and START2 of the electronic control card are not monitored and the electric locking system, if present, blocks the door wings

Pushing the “manual command” button the automatism controls a complete opening and complete closure of the doors.

The led indicators indicate the logic currently active (led lit up).To change the logic press the SELECT key; every time the key is pressed the led corresponding to the various logics lights up in sequence. When the desired logic is reached, the led blinks for a few seconds; when the light remains on, the control card acquires the new logic. Every logic, excluded the stop close logic can be used with the partial opening option.To activate the partial opening option push the n° 3 button, the opening space of the door wings is reduced respect to the total by a quantity equal to percentage value set in the “Partial Opening” parameter (set to 50%). If the “multislave” option is active, when change the logic, you can select a single door (select the number of the door) or operate on every door connected (select “all”).

The led indicators indicate the logic currently active (led lit up). To change the logic press the SELECT key; each time the key is pressed the led corresponding to the various logics lights up in sequence. When the desired logic is reached, the led blinks for a few seconds; when the light remains on, the control card acquires the new logic.

By means of the LCD display and the navigation keys it is possible for the user to move within the functions menu.

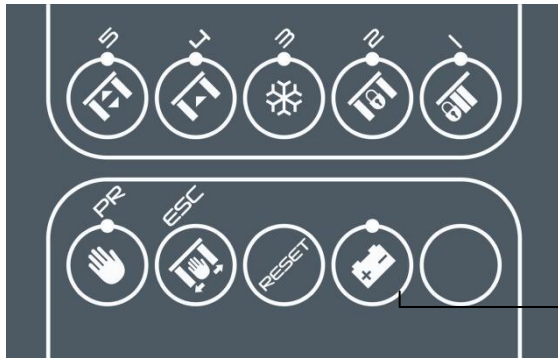
SCROLL DOWN Key: permits the user to scroll downward in the functions menu.

SCROLL UP Key: permits the user to scroll upward in the functions menu.

CONFIRM Key: permits the user to conserve the selection chosen.

RESET Key: permits the user to cause the Reset of the control centre and the advanced Selector.

Installation with Basic selector



1	Stop close
2	Stop open
3	Partial opening
4	1 Radar
5	2 Radar
PR	Semi-automatic logic mode
ESC	Command semi-automatic logic mode
RESET	Reset
	Battery mode

With Basic selector is possible to select the following operation logics:

- **Stop Close:** the automatism controls the complete closure of the door wings. In this logic the inputs START1 and START2 of the electronic control board are not monitored; if present, the electric locking system blocks the door wings. Opening control button is disabled.
- **Stop Open:** the automatism controls the complete opening of the door wings. In this logic the inputs START1 and START2 of the electronic control board are not monitored.
- **2 radar (Entry-exit radar):** both the inputs START 1 and START 2 of the electronic control board are monitored. A signal coming from a connected sensor to one of these inputs causes the opening and consequent closing of the door wings. The electric locking system, if present, never blocks the door wings.
- **1 radar (Exit-only radar):** only the input START 2 of the electronic control board is monitored. A signal coming from a sensor connected to this input causes the opening and consequent closing of the door wings. The electric locking system, if present, blocks the door wings every time that they reach the complete closure position.
- **Manual opening:** the automatism controls the complete closure of the door wings. In this logic the inputs START1 and START2 of the electronic control board are not monitored and the electric locking system, if present, blocks the door wings. Pushing the “manual opening” button the automatism controls a complete opening and complete closure of the door.

The led indicators show the logic currently active (lit up led). To change the logic press the button matching the logic you want to select; every time one of the button is pressed the matching led blinks for few seconds; when the light remains on, the control board acquires the new logic.

Every logic, except the stop close can be used with the partial opening option. To activate the partial opening option press button 3, the lit up led shows it. In this case the opening space of the door wings is reduced from the total by a quantity equal to the percentage value set in the “Partial Opening” parameter (set to 50%). The battery led is on in case of lack of the mains supply ; the automatism runs with battery power.

The led blinks to show a low charge battery level.

ATTENTION!

If you select the partial opening mode with the Stop Open logic already set, to activate the partial opening settings it would be necessary that the automatism runs a complete cycle.

In case of “reset” , the partial opening will be deactivated.

Installation with opening push button or with sensors without selector

Once the opening push button is pressed or the detection sensors are activated, the door carries out the opening cycle with automatic closing after the pause.

Manual release

For safety reasons the electric lock comes together with a lever handle manual release system. It is supplied according the following modality:

- **Release handle:** the unlocking can be done polling the lever handle installed in proximity of the automatic door or on the lateral end capo f the operator, by pulling this lever handle the wings can be moved manually. Placing the lever handle in the original position the lock will again keep the wings in locking mode.

This lever handle must be verified periodically in order to avoid release, dust, wear, corrosion or other unexpected cause that might prevent the correct working principles.

Electronic key

Through this accessory together with the wing-locking device, it is possible to close the wings from the outside, regardless of the logic selected on the advanced or basic selector.

Any power failure following this closure will not cause the doors to open.

Each time the electronic key is inserted, the automatism passes from a normal operation state to a closed and locked state and vice versa. During the transition from the locked state to the normal operation state, the wings perform a complete opening and closing manoeuvre so as to allow the entry of a person if necessary.

Operation in case of power failure with batteries installed

Antipanic mode : during a power failure the wings will stop in the open position, from the advanced selector it is possible to select only the stop closed function.

Continuous operation : when a power failure occurs, the automatism continues to operate with the set logic until the batteries run down.

The choice of operation type is carried out during installation by a trained technician.

Cleaning and maintenance

Cleaning :

Items	Procedure
Painted surface	Clear with soap and water
Anodized surface	Clear with soap and water non -alkaline (pH 5,5 / 7)
Safety beams	Clear with a damp cloth
Selectors	Clear with a damp cloth

Maintenance : The maintenance interval on the MILLENNIUM SERIES automatisms is determined by the intensity and conditions of use of the automation.

In high-traffic installations (airport entrances, supermarkets, shopping centres, motorway service areas, etc.) or installations operating under particularly demanding conditions (exposure to corrosive agents, near the sea, in very windy locations, wings subject to frequent impacts with moving objects such as shopping carts, etc.) it is advisable to perform maintenance on a six-month basis scheduled with a skilled technician.

In low-traffic installations (small businesses, private offices, residences, operating rooms, etc.), it is advisable to perform maintenance annually scheduled with a skilled technician.

