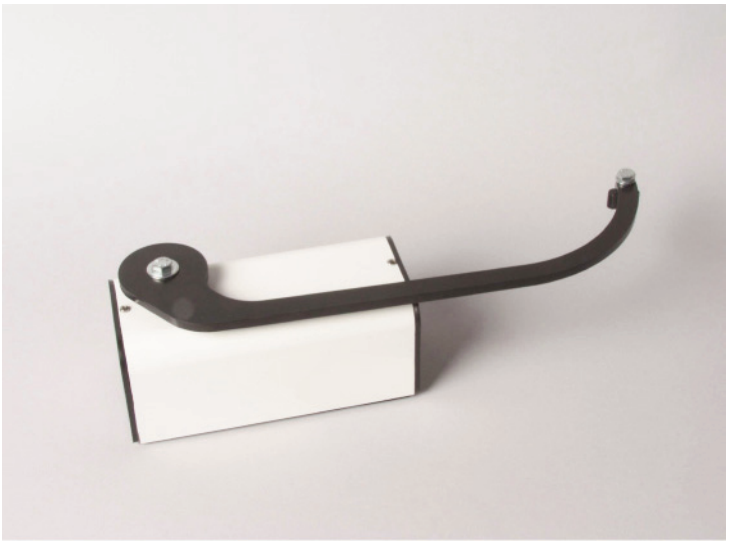
SESAMO



# DOMUS SWING

## AUTOMATISM FOR SWING SHUTTERS

INSTALLATION MANUAL

## REQUIREMENTS

The following manual has to be used from qualified and expert staff. It would give all the instruction for a proper use of the automatism.
The instruction manual is a part and parcel of the device, even if the same would be distributed to an installator.

SESAMO s.r.l. reserves the right to all the technical documentation add to the automatism, mreover SESAMO s.r.l. forbid the reproduction or the translation without any confirmation signed.
SESAMO s.r.l. decline any liabilitycome from possible mistakes written in the manual, if caused from print or translation errors.
SESAMO s.r.l. reserves the right to make without any advance notice, changes that the system might need without compromise the technical requisites.

## RULES AND ABBREVIATIONS USED IN THE PRESENT MANUAL

**PROHIBITION SIGNAL**

This signal describes the proceedures or the operations that the operator MUST NOT attempt because they might cause irreparables damagese.

**WARNIGN SIGNAL**

This signal describes the proceedures that the installator should carefully follow to aoid any damages to the operator.

**WARNING SIGNAL FOR THE ELECTRICAL PARTS**

This signal describes the proceedures that might present electrical risks.

## DETAILS OF THE PRODUCER

For asistance please contact as follows:

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## WARRANTY

The 24 months warranty starts from the installation. During this period the components damaged will be substitute or repaired from our technicians as a result of defected items.

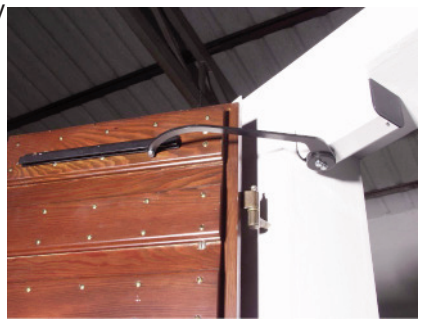
End of he warranty:
- not respect of the information and warnings signed on the installation manual.
- wrong use of the automatism
- Wrong use of the operator ragarding the location fitting
- Short mainteinance
- Not respect of the safeguard rules and security on the work site
- Modifications or changes of the technical features
- Tampering of the operator

**Read carefully the instructions before fitting this device and follow meticulously all the information written on this manual.**

**MODIFICATION-BAN**

**Any modification or change made from the final installator are forbidden.SESAMO s.r.l. does not take charge in case of modification not allowed.**

## MAIN CHARACTERISTICS



This device has been designed to operate automatically with precision and security the opening and closing movements of any kind of swinging shutters (double, folding, split, hugh dimension, armoured, etc..)
DOMUS SWING, provided of a curver arm sliding in a straight rail, allowed silent and regular movementi:it is provided also of a system that delay the closing movement to avoid the bump of the wings.
DOMUS SWING is available in the right (DX) and left (SX) version.You cn easily understand the siuation looking the operator from inside view.
The aluminium body could be painted in white (BC), brown (MR) and black (NR) colours

## TECHNICAL FEATURES

| | |
|---|---|
| Rated supply voltage | 230V 50Hz |
| Motor absorption | 0,65 A |
| Torque | 1,1 daNm |
| Toque in exit | 38 daNm |
| Intermittence % H | 15 |
| Working temperature | -25 +110° C |
| Opening time | 14 s |
| Protection level | IP20 |
| Dimensions | 78x160x67 mm |

**The devices have the only function to attend the movement of the wings: they must not be used to pick the lock of the wings, even is not condidered a sytem of security closing or breaking end entering.**

## MANUAL UNLOCK

The manual unlock, in case of power failure, help to loosen the two nuts of the arm and moove manually the wing. Screw back on the nuts making sure to screw up them carefully, meanwhile the power would come again.

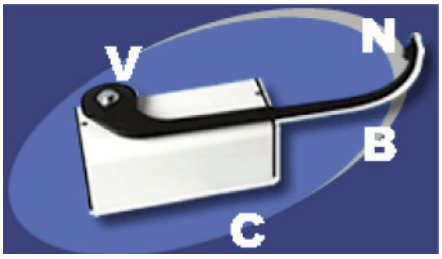
**It's forbidden to install the device and its own control board in location where are present flammable materials, even in presence of propelling atmosphere and in all the location that might generate danger. It's also fordidden to disband the packaging of the devices. Please follow the direction for the garbage disposal.**

**Before starting to install the devices, make sure the shutters are in good condition, aligned and free from any friction and obstruction. Please also check the devices, in working order and not damaged from trasportation or tampering.**

## INSTALLATION DOMUS SWING "AT SIGHT"

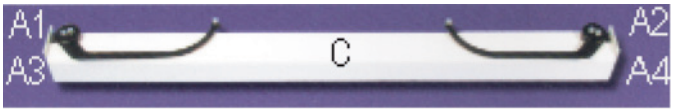
DOMUS SWING can be installed under the girder or on the windowsill, between the frame and the shutter.

**V** = Washer with nuts
**C** = Carter in alluminium
**B** = Arm
**N** = Small nut




1. Unscrew the screw on the side of the carter "C";
2. Unthread the carter "C" that cover the motor;
3. Fit the motor under the girder or on the windowsill, 10 cm from the closed shutter, with the arm rest on the lateral side of the wall;
4. Check off the three points to derill where you would fix he screws, one in the girder (or windowsill), the others two in the later side of the wall. The holes have to be drilled with the right bit Ø 8mm;
5. Fix the motor with plugs Ø 8 mm;
6. Connect the motor(look at the electric section);
7. Cover with the carter and screw.

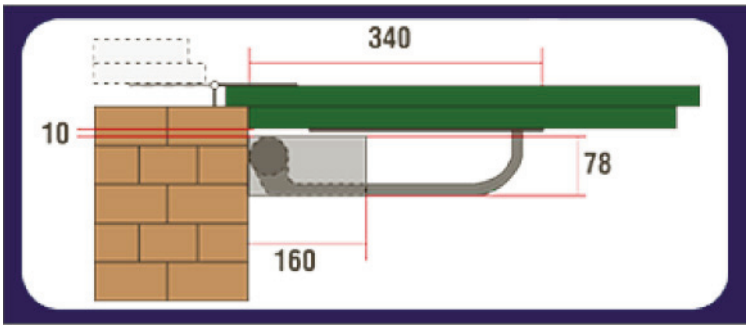
## INSTALLATION DOMUS SWING "AT SIGHT (MODEL C)"




1. Fit the aluminium transom "C" that includes th two motorsunder the girder r on the windowsill, between the frame and the shutter when closed.
2. Check off on the lateral walls the overlap points with the eyelets A1, A2, A3 and A4. Drill with a bid Ø 8mm;
3. Fix the luminium transom to the lateral walls, using the eyelets A1 and A2, with plugs Ø 8 mm;
4. Turn inwards the transom "C" and make the electrical connection between the motors (look at the electric section);
5. After the electrical connection, turn the transom "C" and fix it flush to the girder or windowsill;
6. Fix the transom "C" to the lateral walls usung the eyelets A3 ed A4, with plugs Ø 8 mm;
7. Check that the fitting of the arm with the sutter is made on the holding part of the shutter

**All the steps of the installation must be dome without any power alimentation. After 6 months check the screws fastening.**

## INSTALLATION STRAIGHT GUIDE




The opening and closing cycles are based on a sliding movement of a nut “N” running on a straight guide.
When the shutter is closed the guide has to be fixed at the wing at 340 mm from the lateral wall at the end of the guide
The height come form the arm B: inserting the nut “N” located at the end of the arm in the straight guide.

**When the arm is fitted, check the fastening of the two nuts of the arm.**

**Before connecting the device check always the rated supply voltage.**
**The connecting device must be operated without any connection to the electrical alimentatio.**

## ELECTRICAL CONNECTION

The operating start using pushing button or centralized device.
It is possible to open/close partially the shutter and stop them in any positioning.

## PUSHING BUTTON “DEAD MAN”

DOMUS SWING can be operate with from two switch with wo buttons to command the opening/closing one singlr shutter even in precence of a double one. The alimentation works untill the button is pressed. The motor does not get any damage even if the button is pressed more seconds need for the cycle.

**Use the appropriate button with led to inform about the operating**

## CONTROL “IN TIME” WITH ELECTRONIC BOARD

Connecting two DOMUS SWING wth one electronic board SE/04, the opening and closing cycles are manage by the time working of the electronic board using one single switch with double buttons.
The operating is working giving the opening or closing signal.
The electronic board allow the displacent of the opening of the wings both for the opening both for the closing cycle.
To control the closing of the shutters the control board is provided of exits for the centralized input; therefore the control boards of all the devices have to be connected in parallel, in this case you can use one single switch in any location of the building.

## ELECTRONIC BOARD SE/04 (S57)

**The control board is already set.**
**Check the electric wires before connect the alimentation.**
**Wrong wiring might damage the control board.**
**Connect the rated supply voltage 230V only to a residual current breakers with overload protection.**

The board has to be fitted inside the junction box, avoid to place the control board inside the aluminium transom

## ELECTRIC WIRING

| | |
|---|---|
| Clamps 1-2 | Rated supply voltage 230V AC. Protection with fuse 5A |
| Clamps 3-4-5 | Exit motor 1 Delay in closing cycle<br>(Hit wing)<br>Clamp 3 = Commmon<br>Clamp 4 = Opening<br>Clamp 5 = Closing |
| Clamps 6-7-8 | Exit motor 1 Delay in opening cycle<br>(Wing without hit)<br>Clamp 6 = Common<br>Clamp 7 = Opening<br>Clamp 8 = Closing |
| Clamps 9-10 | Exit leds 12V CC.<br>Connect 1 LED as follows:<br>Clamp 9 = " - "<br>Clamp 10 = " + " |
| Clamps 11 | Common to all the imput |
| Clamps 12 | Input "Open" |
| Clamps 13 | Input "Open centralized" |
| Clamps 14 | Input "Close" |
| Clamps 15 | Input "Close centralized" |

## WORK TIMING

**Before changing any programs, get off the supply.**
**The control board has a dip switch SW1 to set the work timing.**

DISPLACEMENT IN CLOSING CYCLE

| | | | |
|---|---|---|---|
| DIP4 = OFF | DIP5 = OFF | DIP6 = OFF | t = 15 sec |
| DIP4 = OFF | DIP5 = OFF | DIP6 = ON | t = 26 sec |
| DIP4 = ON | DIP5 = OFF | DIP6 = ON | t = 29 sec |
| DIP4 = OFF | DIP5 = ON | DIP6 = ON | t = 32 sec |
| DIP4 = ON | DIP5 = OFF | DIP6 = OFF | t = 17 sec |
| DIP4 = OFF | DIP5 = ON | DIP6 = OFF | t = 20 sec |
| DIP4 = ON | DIP5 = ON | DIP6 = OFF | t = 23 sec |
| DIP4 = ON | DIP5 = ON | DIP6 = ON | t = 41 sec |

DISPLACEMENT IN CLOSING CYCLE

| | | |
|---|---|---|
| DIP2 = OFF | DIP3 = OFF | t = 2 sec |
| DIP2 = ON | DIP3 = OFF | t = 4 sec |
| DIP2 = OFF | DIP3 = ON | t = 6 sec |
| DIP2 = ON | DIP3 = ON | t = 16 sec |

DISPLACEMENT IN OPENING CYCLE

| | |
|---|---|
| DIP1 = OFF | t = 1,5 sec |
| DIP1 = ON | t = 3 sec |

## TESTING PROCEEDURES

Both in the assembling, both in the installation these parameters are tested:
- Electric isolation of the motor
- Functionality of the arm
- Set the payload of the motoreducer

## DANGER ZONE

- Movement arm
- Electric motor
- Parts for the installation

For each danger zone, seurity solutions have been explained, in particular they can be::
- technical reason
- procedural
- notice with messenger

The person that might have these kind of problems are: final user, installator, any kind of different person that can interact with the device.

## DANGERS

***MOVEMENT OF THE ARM***
The risk to be involved in the movement of the arm both in the operating both in the installing.
***Security solution***
A led has been provided within the button to alert that the arm is moving. In the istallation, it is very important to fasten the screws, as indicated in the present manual, that hold the device to the shutter. Avoid to oppose the movement and keep away the hands while the device is operating.

***ELECTRIC MOTOR***
Because in presemce of electric wires problem of supply, sparkles , etc .
***Security solution***
The motor is well insulated inside a carter

***INSTALLATION PARTS***
The installation could be dangerous because the motor cn be not well fixed to the wall and/or to the shutter.This manual shows how to operate in the right way.
***Security solution***
In this manuals are present different solution to avoid any kind of problem

All the predictable risks have been studied form the producer. SESAMO s.r.l. declines any liability for damages generate to things and person caused by wrong use or a rong installation, even missing respect of the instruction. SESAMO declines any liabilty if the operating of the device is compromised from  not original spare parts.

**The installation, the wiring and the test have to be done in accordance to the present rules**

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