Tubular Motor

EN - Instructions and warnings for installation and use
ATTENTION Important safety instructions. Follow all instructions as improper installation may cause serious damage
ATTENTION Important safety instructions. It is important for you to comply with these instructions for your own and other people's safety. Keep these instructions

- Before commencing the installation, check the "Technical characteristics" (in this manual), in particular whether this product is suitable for automating your guided part. If it is not suitable, DO NOT continue with the installation
- The product cannot be used before it has been commissioned as specified in the chapter on “Testing and commissioning”

ATTENTION According to the most recent European legislation, the implementation of an automation system must comply with the harmonised standards provided by the Machinery Directive in force, which enables declaration of the presumed conformity of the automation. Taking this into account, all operations regarding connection to the electricity grid, as well as product testing, commissioning and maintenance, must be performed exclusively by a qualified and skilled technician!

- Before proceeding with the installation of the product, check that all the materials are in good working order and suited to the intended applications
- This product is not intended to be used by persons (including children) whose physical, sensory or mental capacities are reduced, or who lack the necessary experience or skill
- Children must not play with the appliance
- Do not allow children to play with the fixed control devices of the product. Keep the remote controls away from children

ATTENTION In order to avoid any danger from inadvertent resetting of the thermal cut-off device, this appliance must not be powered through an external switching device, such as a timer, or connected to a supply that is regularly powered or switched off by the circuit

- Provide a disconnection device (not supplied) in the plant’s power supply grid, with a contact opening distance permitting complete disconnection under the conditions dictated by overvoltage category III
- Handle the product with care during installation, taking care to avoid crushing, denting or dropping it, or allowing contact with liquids of any kind. Keep the product away from sources of heat and naked flames. Failure to observe the above can damage the product, and increase the risk of danger or malfunction. Should this happen, stop installation immediately and contact Customer Service
- The manufacturer assumes no liability for damage to property, items or persons resulting from non-compliance with the assembly instructions. In such cases the warranty for material defects is excluded
- The weighted sound pressure level of the emission A is lower than 70 dB(A)
- Cleaning and maintenance to be carried out by the user must not be carried out by unsupervised children
- Before working on the system (maintenance, cleaning), always disconnect the product from the mains power supply
- Check the system periodically, in particular all cables, springs and supports to detect possible imbalances, signs of wear or damage. Do not use, if repairs or adjustments are necessary, since installation failure or an incorrectly balanced automation may cause injury
- The packing materials of the product must be disposed of in compliance with local regulations
- There must be at least 0.4 m between the driven parts and any fixed elements
- The wording on the tubular motors can be covered after assembly
- Be careful with moving shutters and keep away from them until they have lowered fully
- Be careful when activating the manual release device, as a raised shutter may rapidly drop in case of weak or broken springs
- Do not activate the awning when maintenance activities – such as window cleaning – are being carried out nearby
- Disconnect the awning from the power supply when maintenance activities such as window cleaning are being carried out nearby. Warning for 'shades with automatic control'
- Motor with fixed power cable: the power cable cannot be replaced. If the cable is damaged, the appliance must be scrapped
- Motor with removable power cable and dedicated connector: if the power cable is damaged, it must be replaced by the manufacturer or by the latter's technical assistance service, or by a similarly qualified person, in order to prevent any type of risk

INSTALLATION WARNINGS

- Prior to installing the drive motor, remove any unnecessary cables and disable any appliance not required for motorised operation
- Install the manoeuvring assembly for manual release at a height below 1.8 m
- Make sure that the control devices are kept far from moving parts but nonetheless in a visible position. The manoeuvring assembly of a switch kept manually closed must be located in a position visible from the guided part but far from moving parts. It must be installed at a minimum height of 1.5 m
- The fixed control devices must be installed in a visible position
- For drive motors that allow for accessing unprotected moving parts once they have been installed, such parts must be installed 2.5 m above the floor or other surface form which they can be accessed
This product is a tubular motor for automating indoors roll-up awnings, or indoors sunscreens, or similar roll-up equipment (fig. 1). Do not use it for any other purpose! The manufacturer declines all liability for damage resulting from improper use of the product or any other use than that specified in this manual.

The product has the following functional characteristics:

- it is powered via a 24 V power supply connected to the mains (see the motor rating plate);
- it has two separate cables: one power cable and one control cable;
- it installs inside the winding roller; the part of the motor that protrudes from the roller (electronic head) mounts to the ceiling or wall with brackets (not included);
- it has a built-in radio receiver and control unit with encoder technology that electronically controls the movement and precision of the limit switches;
- it is compatible with all Nice control electronics using the NRC radio system (climate sensors and transmitters);
- it can be programmed with a compatible radio transmitter (“ERA P” / “ERA W” series). These have two keys on their backs which serve only for programming, and which are protected by a cover to prevent accidental reprogramming. The programming can also be done with a dedicated programming unit (TTP, etc.), or wall-mounted button panel. These accessories (including portable radio transmitters) are not included;
- it can be controlled with a radio transmitter or cabled wall-mounted button panel (see fig. 2). These accessories are not included;
- it can move the awning up or down; stop it at the upper limit switch, the lower limit switch or various intermediate positions;
- it moves awnings of different weights at the same speed;
- the up and down speeds are the same;
- it enables you to set the nominal awning speed, so that the user can select three commands: “fast”, “nominal” and “silent-soft”;
- it enables you to adjust the movement’s duration;
- it enables you to set the acceleration and deceleration at the start/end of the movement respectively;
- it features a security system that detects the presence of an obstacle along the awning travel, immediately blocking the movement in progress and performing a brief inversion of movement. The same system is automatically activated at the end of the Up movement (only if the upper limit switch “0” consists of a box or other mechanical stop), to mitigate the impact of the awning against the housing and loosen the tension exerted by the motor on the canvas, when the awning is stationary at the upper limit switch “0”;
- it enables you to customise the radio transmitter commands (Mode II);
- it enables you to set the functional logic of a button panel’s buttons;
- it enables you to precisely adjust the limit switches with the buttons on the motor head;
- it has an integral led which indicates the system status and any malfunctions;
- it is equipped with a thermal protection system which, in the case of overheating caused by overuse of the automated mechanism (beyond the indicated limits, see the Technical Specifications chapter), automatically cuts off the electricity supply, restoring it as soon as the temperature goes back to normal;
- it is available in a variety of versions, each with a specific motor torque (see the motor nameplate ratings).
2.1 - Preliminary checks before installation and limitations on use

- Check the condition of the product right after unpacking it.
- Make sure that the torque, the rotation speed and time of operation of this motor are suitable for automating your awning. In particular, do not install the motor if its torque is greater than that needed to move your awning.
- To choose the right motor to the technical features of your awning refer to the “Guide to Selection” section, in the “Nice Screen” catalogue, – also available on www.niceforyou.com.
- Check the diameter of the winding roller: for motors of size “XS” (Ø = 25 mm) the minimum inside diameter of the winding roller must be 30 mm.
- Additional limitations on use are listed in chapters 1 and 2 and in the technical characteristics on the nameplate.

2.2 - Assembling and installing the tubular motor

Caution! – Read the safety warnings before proceeding. Incorrect installation could cause severe physical injury.

To assemble and install the motor, refer to fig. 3 (the accessories shown in fig. 3 are not included in the package). To select the limit switch gear wheel (fig. 3-a), drive wheel (fig. 3-b), motor bracket (fig. 3-f), or to select supplementary cables (of different lengths), refer to the “Nice Screen” catalogue, which is also available on www.niceforyou.com.

2.3 - Installation of accessories

After installing the motor, install the accessories, if required. In order to identify those that are compatible and choose the models desired, see the “Nice Screen” catalogue, which is also available on www.niceforyou.com. Fig. 2 shows the type of accessories that are compatible and their connection to the motor (all of these are options and not included in the package).
a) Gear wheel for limit switch (not included in the package).

b) Drive wheel (not included in the package).

c) Supporting bracket of the winder roller (not included in the package).

d) Motor bracket (not included in the package).

2 screws: self-tapping without point, for plastic materials. Diameter: 3.5 mm; length of threaded part: min. 5 mm - max 8 mm.

CAUTION! - The smaller cables must be handled carefully because they contain very thin wires that could be damaged.
3 ELECTRICAL CONNECTIONS AND FIRST POWER UP

The motor has two separate cables: the power cable and the control cable. Each cable has a connector for connection to the motor (fig. 3-h), the connectors are removable and allow the possible replacement of cables (fig. 3-i). CAUTION! The smaller cables must be handled carefully because they contain very thin wires that could be damaged.

CABLE “A” is the POWER cable (fig. 2)

<table>
<thead>
<tr>
<th>Wire</th>
<th>Colour</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Red</td>
<td>Positive</td>
</tr>
<tr>
<td>A2</td>
<td>Black</td>
<td>Negative</td>
</tr>
</tbody>
</table>

CAUTION! – DO NOT connect any wires from cable “A” and “B” to the power line.

3.1 - Connection of motor to electricity mains

The motor must be powered using a 24 V supply, connected to the mains. Use cable “A” (wires A1 and A2 – see fig. 2) for this connection, making sure to observe the warnings in full.

WARNINGS
- Choose a 24 V supply (see the motor rating plate) from the “Nice Screen” product catalogue (the catalogue is also available online at www.niceforyou.com).
- The power supply must be chosen considering the number of motors that may need to be connected in parallel and the power delivered by each of these (see the motor labels).

3.2 - Connecting pushbutton panels

You can connect either 1 or 2 button panels.
Caution! - The maximum length of the cables used to connect a wall-mounted panel or a relay is 100 m.
- Model with 1 button excites an input: the command is either Open (factory setting) or Step-by-step: the command is memorised with procedure A.11. The panel must be connected to the white and white-black wires.
- Model with 2 buttons excites two inputs: one for the Up command, and one for the Down command: it is also possible to program the operating logic using procedure A.9. The Open and Close inputs are constrained to reach other, in other words they must be used with the same pushbutton panel (fig. 2).

3.3 - Connecting accessories and sensors

- Cabled accessories: use cable “B” referring to fig. 3 and the following instructions.
  - You can connect only one compatible accessory at a time to the white and white-black cables.
  - You can connect only one compatible accessory at a time to the white-orange and white-black cables.
  - Up to 5 tubular motors can be connected to one accessory, respecting the polarity of the signals (connect the white-black cables of all motors together as well as the white-orange cables of all motors).
- Wireless accessories:
  - These are either portable transmitters or climate sensors. For how to program/memorise them, refer to the procedures given in this manual and in the device manuals themselves.

4 PROGRAMMING AND ADJUSTMENTS

4.1 - Groups of programming and adjustment procedures

There are 5 groups of programming and adjustment procedures:

- **Group A** – done with a transmitter.
  - Procedures which can only be completed with a Nice “ERA P” or “ERA W” transmitter with the A, B, Y, P, R, G, ESC keys.
- **Group B** – using the buttons on the motor head.
  - Manual adjustment of the limit switches, with precise, accurate results.
- **Group C** – done with a dedicated programmer.
  - Programming with a programmer or other compatible accessory (for instance: TTP).
- **Group D** – done with a wall mounted button panel with up and down buttons.
  - Procedures for programming and operating the automation at the “basic level”, i.e. programming or deleting only the limit switches. **Note** – the buttons must NOT be interlocked.
- **Group E** – done with a smartphone.
  - Programming with a smartphone with NFC (Near Field Communication). This technology is not yet available on this motor.

4.2 - Positions in which the awning stops automatically

The electronic system that controls the awning movement at all times can automatically stop the motor when the awning reaches a certain position (or “height”) programmed by the installer. The positions are shown in fig. 4 as follows:
- position “0” = UP limit (awning completely retracted);
- position “1” = DOWN limit (awning completely extended);
- position “H” = INTERMEDIATE position (awning partially open)

4.3 - General warnings

- The limit switch must be adjusted after installing the motor in the awning and connecting it to the power supply.
- Comply strictly with the time limits indicated in the procedures: after releasing a key, you have 60 seconds to press the next key indicated in the procedure; otherwise, when the time is up, the motor will perform 6 movements to communicate cancelation of the procedure in progress.
- During programming the motor performs a certain number of brief movements as a “response” to the command sent by the installer. Count these movements regardless of their direction. The movements are indicated in the procedures with a number followed by the symbol **T**.

4.4 - Important warnings for memorising the radio transmitters

- To select transmitter compatible with the motor’s receiver, refer to the “Nice Screen” catalogue, which is also available on www.niceforyou.com.
- When no transmitter is yet present in the motor’s memory, memorise the FIRST TRANSMITTER with procedure A.1 only. If one or more transmitters have already been memorised, to memorise SUPPLEMENTARY TRANSMITTERS use one of procedures A.6 only.

4.4.1 - Two procedures to memorise the keys of a transmitter

There are two categories of transmitter memorisation procedures:

**A** - Procedures which memorise the buttons in “Mode I” (“Standard mode”)

These are procedures A.1 - A.6.1.A - A.6.1.B. These allow you to memorise all buttons at the same time, so that each button corresponds to a basic motor command in a standard fashion.
B - Procedures which memorise the buttons in “Mode II”
(“Custom mode”)

These are procedures A.6.2.A - A.6.2.B. These allow you to memorise individual buttons and map them to any of the commands given in the motor’s “list of commands” (this list is given in each procedure). The button and the command are selected by the installer, as required by the installation.

4.4.2 - Maximum number of transmitters that can be memorised

The motor has 30 memory locations. A location can either memorise a single transmitter (in Mode I) or a single button (in Mode II) or a single wireless climate sensor (up to 5 sensors).

4.5 - Programming multiple motors with a single channel transmitter

In such cases, to avoid the need to disconnect all motors you do not wish to program, proceed as follows:

1) - run procedure A.1 to memorise the first transmitter on the motor you wish to program;
2) - run procedure A.2 to deactivate all other previously memorised motors, which you do not wish to program;
3) - program the motor as required, leaving the limit switches to last (*)
4) - at the end, reactivate the previously deactivated motors by pressing ESC.

(*) Note – If you wish to program the “movement duration”, run the procedure in question (A.14) only after having programmed the limit switches.

CE declaration of conformity

Declaration in accordance with Directive 1999/5/EC

Note: This declaration corresponds to the official declaration held at the registered offices of Nice S.p.A., and in particular to the latest revision available at the time of printing of this manual. The text herein has been adapted for editorial purposes. A copy of the original declaration may be requested from Nice S.p.A. (TV) Italy.

Declaration number: 602/XSI
Revision: 0
Language: EN

The undersigned, Roberto Griffa, in the role of Chief Executive Officer, declares under his sole responsibility, that the product:

Name of manufacturer: NICE S.p.A.
Address: Via Pezza Alta N°13, 31046 Rustignè di Oderzo (TV) Italy
Type of product: Tubular gearmotor for indoor roll-up awnings and sunscreens
Model / Type: E EDGE XSI 0628 DC, E EDGE XSI 0820 DC

Compliant with the essential requirements provided for in Art. 3 of the following EC directive, for the use for which the products are intended:

- Directive 1999/5/EC OF THE EUROPEAN PARLIAMENT AND COUNCIL of 9 March 1999 regarding radio equipment and communications terminal equipment and the mutual recognition of their conformity, according to the following harmonised standards:
  - Health protection (art. 3(1)(a)): EN 62479:2010
  - Electromagnetic compatibility (art. 3(1)(b)): EN 301 489-1 V1.9.2:2011; EN 301 489-3 V1.6.1:2013
  - Radio spectrum (art. 3(2)): EN 300 220-2 V2.4.1:2012

The product complies with the requirements of the following EC directives:

- DIRECTIVE 2014/35/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits (recast), according to the following harmonised standards:

- DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast), in accordance with the following harmonised standards:

Oderzo, 13 February 2017

Mr Roberto Griffa
(Chief Executive Officer)
GENERAL WARNINGS RELATING TO THE PROCEDURES OF PROGRAMMING

- Before starting any programming, move the awning to an intermediate position, away from the Up and Down limit switches.
- If the programming transmitter controls multiple groups of screen motors, before sending a command requested by the procedure, select the group to which the motor being programmed belongs.
- When the motor is powered up, if it makes 2 movements this means that at least one transmitter has been memorised and no limit switch has been programmed; if, on the other hand, it makes 1 movement this means that no transmitter has been memorised.
- When running a procedure, you can abort the procedure at any time by pressing ESC (on the back of the transmitter).
- When the Up and Down limit switches are not programmed, the awning can only be commanded in hold-to-run mode - i.e. you must hold the button down until the awning reaches the desired position. The movement stops when you release the button in any position.
- When the Up and Down limit switches have been programmed, the awning can be controlled by simply pressing and releasing the buttons. Doing so starts the movement, which is stopped automatically by the system when the awning reaches the programmed position.
- All procedures require you to use a transmitter memorised in “Mode I” (e.g., memorised with procedure A.1 or with procedure A.6.1.A or A.6.1.B).

A.1 - Memorising the FIRST TRANSMITTER (in “Mode I”)

NOTES AND WARNINGS
- This procedure must be used only for memorising the FIRST TRANSMITTER. If the motor does not complete the procedure, this is because at least one transmitter has already been memorised. To memorise supplementary transmitters, you must use the procedures described in section A.6.
- If all transmitters memorised in the motor are deleted, the first transmitter you memorise thereafter must be memorised with this procedure.
- If the installation has multiple motors, the procedure must be repeated for each motor separately.
- On completing this procedure, button ▲ will Raise the awning, button ▼ Lower it, and button ■ Stop the movement.
- If within the transmitter’s range there are multiple powered up motors, to memorise the first transmitter in any one of them, it is not necessary to disconnect power to all other motors; simply proceed as follows.

1. Move the awning to a half-way position.
2. Switch on mains power.
3. Hold down the button and release it after 5 seconds; over the next 2 minutes, all motors within the transmitter’s range in which no transmitters have yet been memorised will move their awnings up and down, for random periods of time.
4. Select the awning you wish to program and, at the start of an UP movement, stop it IMMEDIATELY by pressing and releasing the button (1 time); the movement will stop briefly (= command received) and ... the awning will resume its up and down movements, each of random duration.
5. Observe the same awning and, at the start of a DOWN movement, stop the movement IMMEDIATELY by pressing and releasing the button (1 time); the movement will stop; count 3 movements.
A.2 - Temporarily deactivating (and reactivating) motors you do not wish to program

NOTES AND WARNINGS
• This procedure temporarily deactivates (for 5 minutes) only motors whose up and down limit switches have already been programmed.

A.2.1 - To temporarily deactivate motors you do not wish to program

1

Hold down the button and release it after 5 seconds;
you will see a brief down movement and a movement which stops the awning at the Up limit “0”.

2

The system locks out only those motors whose limit switches have already been programmed. It has no effect on motors which have not yet been programmed. The deactivation is temporary and lasts for 5 minutes.

For a period of 5 minutes, the locked out motors will not respond to commands.

A.2.2 - To reactivate temporarily locked out motors

You can reactivate the motors in two ways:

Option – A

After 5 minutes the locked out motors are automatically reactivated by the system.

Wait for 5 minutes ...
... the system will then move the awning to the mid position.

Option – B

During the 5 minute period the locked out motors can be reactivated at any time by the user.

During the 5 minutes, at any time...
... hold down the button and release it after 10 seconds;
... the system will then move the awning to the mid position.

A.3 - MANUAL programming of the UP (“0”) and DOWN (“1”) limit switches

NOTES AND WARNINGS
• This procedure is obligatory only for awnings without a mechanical stop at the Up position.
• This procedure can be used if the limit switches have been programmed using the semiautomatic procedure (A.4).
• After the limit positions have been programmed, the awning can be controlled by simply pressing the appropriate buttons on the control unit. The awning will move between the positions set with procedures A.3.1 and A.3.2.

A.3.1 - To program the UP limit switch (“0”)

1

Press and release the button (1 time);
count 2 movements.

2

Hold down the button and release it after 5 seconds;
count 2 movements.

3

Finely adjusting the position of limit switch “0”

... release the button as soon as the awning reaches position “0” (UP limit switch).

Press the buttons until you reach the desired position. Alternatively, for more accurate adjustment, run procedure B.1.

Hold down the button and release it after 5 seconds;
count 3 movements.
A.4 - SEMIAUTOMATIC programming of the UP (“0”) and DOWN (“1”) limit switches

NOTES AND WARNINGS
• Use this procedure solely for awnings with mechanical Up “0” limit switch stop.
• If the limit switches have been programmed using the manual procedure (A.3), before you can use this procedure you need to perform a total or partial deletion of memory (A.8.1 option ‘A’ or ‘D’).
• After the limit positions have been programmed, the awning can be controlled by simply pressing the appropriate buttons on the control unit. The Up movement will be limited when the awning impacts against the mechanical lock (box) in the Upper limit switch “0”. With each impact, the height of this limit switch will be automatically updated by the “Automatic limit switch update” function (paragraph 5.8). Conversely, the Down movement will be limited by the Lower limit switch “1” (limit switch set by the installer at a desired point).

1. Command an UP movement
   Press and release the button (1 time);
   count 2 movements.
2. Command an DOWN movement
   Hold down the button and
   release it after 5 seconds;
3. Hold down the button and wait...
4. Command an DOWN movement
   Hold down the button and
   release it after 5 seconds;
5. Hold down the button and wait...
6. Command an DOWN movement
   Hold down the button and
   release it after 5 seconds;
7. Hold down the button and wait...
8. Command an DOWN movement
   Hold down the button and
   release it after 5 seconds;
9. Hold down the button and wait...
10. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
11. Hold down the button and wait...
12. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
13. Hold down the button and wait...
14. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
15. Hold down the button and wait...
16. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
17. Hold down the button and wait...
18. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
19. Hold down the button and wait...
20. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
21. Hold down the button and wait...
22. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
23. Hold down the button and wait...
24. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
25. Hold down the button and wait...
26. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
27. Hold down the button and wait...
28. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
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30. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
31. Hold down the button and wait...
32. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
33. Hold down the button and wait...
34. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
35. Hold down the button and wait...
36. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
37. Hold down the button and wait...
38. Command an DOWN movement
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    release it after 5 seconds;
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    Hold down the button and
    release it after 5 seconds;
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42. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
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44. Command an DOWN movement
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    release it after 5 seconds;
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46. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
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48. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
49. Hold down the button and wait...
50. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
51. Hold down the button and wait...
52. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
53. Hold down the button and wait...
54. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
55. Hold down the button and wait...
56. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
57. Hold down the button and wait...
58. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
59. Hold down the button and wait...
60. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
61. Hold down the button and wait...
62. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
63. Hold down the button and wait...
64. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
65. Hold down the button and wait...
66. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
67. Hold down the button and wait...
68. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
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70. Command an DOWN movement
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    release it after 5 seconds;
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    release it after 5 seconds;
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    release it after 5 seconds;
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    Hold down the button and
    release it after 5 seconds;
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78. Command an DOWN movement
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    release it after 5 seconds;
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80. Command an DOWN movement
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    release it after 5 seconds;
81. Hold down the button and wait...
82. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
83. Hold down the button and wait...
84. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
85. Hold down the button and wait...
86. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
87. Hold down the button and wait...
88. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
89. Hold down the button and wait...
90. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
91. Hold down the button and wait...
92. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
93. Hold down the button and wait...
94. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
95. Hold down the button and wait...
96. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
97. Hold down the button and wait...
98. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
99. Hold down the button and wait...
100. Command an DOWN movement
    Hold down the button and
    release it after 5 seconds;
A.6 - Memorising ANOTHER TRANSMITTER (second, third, etc.)

NOTES AND WARNINGS
• To run procedures A.6.1A and A.6.2A, you must have a new transmitter to memorise and an old previously memorised transmitter. The two transmitters must have the “PRG” and “ESC” buttons (like “ERA P” and “ERA W” transmitters).
• To run procedures A.6.1B and A.6.2B you must have a new transmitter to memorise, chosen from the “Nice Screen” catalogue, and an old previously memorised transmitter.

A.6.1 - To memorise the transmitter buttons in “Mode I” (“Standard mode”)
• Procedures A.6.1A and A.6.1B memorise all the new transmitter’s buttons in “Mode I”, with the same configuration as the old transmitter (for details about “Mode I” see par. 4.4.1-A).

A.6.1A - Procedure for transmitters equipped with the “PRG” and “ESC” buttons (“ERA P” and “ERA W”)

1. On the OLD transmitter: hold down the button and wait ... count 2 movements; wait again... count 2 more movements; release the button.
A.6.1.B - Procedure for transmitters without the “PRG” and “ESC” buttons

1. On the NEW transmitter: hold down the button and release it after 8 seconds; count 2 movements.

2. On the OLD transmitter: press and release the button (3 times), provided the button is memorised.

3. On the NEW transmitter: press and release the button (1 time); count 3 movements (= transmitter memorised). If the system makes 6 movements (= memory locked or full, transmitter not memorised).

A.6.2 - To memorise the transmitter buttons in “Mode II” (“Custom mode”)

- Procedures A.6.2.A and A.6.2.B memorise a single button on the new transmitter in Mode II; i.e. they associate with the button (chosen by the installer) one of the commands in the motor’s “list of commands” (for details on “Mode II” see section 4.4.1-B).
- Procedures A.6.2.A and A.6.2.B memorise a single button. Repeat this operation to memorise another button.

A.6.2.A - Procedure for transmitters equipped with the “PRG” and “ESC” buttons (“ERA P” and “ERA W”)

1. On the OLD transmitter: Hold down the button and wait... count 2 movements; wait again... count 2 more movements; release the button.

2. On the NEW transmitter: hold down the button and release it after 5 seconds; count 2 movements.

3. Select the desired option and program it as follows:

   - On the OLD transmitter: Press and release the button the number of times indicated in the option you have chosen;

   - 8 OPTIONS:
     - 1 press = Open > Stop > Close > Stop > ...
     - 2 presses = Open
     - 3 presses = Close
     - 4 presses = Stop
     - 5 presses = Open after 10 seconds
     - 6 presses = Open after 20 seconds
     - 7 presses = Close after 10 seconds
     - 8 presses = Close after 20 seconds

4. After about 7 seconds, the motor performs a number of movements equal to the number of pulses entered.

   - On the NEW transmitter: select the button you want to memorise; hold it down and release it after 5 seconds; count 3 movements (= transmitter memorised). If the system makes 6 movements (= memory locked or full, transmitter not memorised).
### A.7 - Memorisation of a climate sensor connected via radio

**NOTES AND WARNINGS**
- To run this procedure you need the climate sensor you want to memorise, chosen from the “Nice Screen” catalogue, and an old transmitter memorised in Mode I (see par. 4.4.1-A).
- When performing the procedure, you can cancel the programming at any time by holding down n and t together for 4 seconds. Alternatively, do not press any keys and wait 60 seconds for the motor to perform 6 movements.

**1.**
- **NEW**
- Press and release the yellow button **“P1”**
- Release it after 8 seconds.

**2.**
- **OLD**
- Hold down the button and release it after 5 seconds.
- Count 4 movements.

**3.**
- Select the desired option and program it as follows:
  - **OLD**
  - Press and release the button the number of times indicated in the option you have chosen.

**4.**
- **NEW**
- Hold down the same button you pressed in Step 1.
- Release it after 5 seconds.
- Count 3 movements (transmitter memorised). If the system makes 6 movements (memory locked or full, transmitter not memorised).

### A.8 - TOTAL or PARTIAL deletion of memory

**NOTES AND WARNINGS**
- In order to carry out the following deletion procedures, the transmitter must be memorised in mode I.

**A.8.1 - Procedure run with a memorised transmitter**

**1.**
- **(x 1)**
- Press and release the button (1 time).
- Count 2 movements.

**2.**
- **(x 1)**
- Press and release the button (1 time).
- Count 2 movements.

**3.**
- **(x 1)**
- Press and release the button (1 time).
- Count 3 movements (transmitter memorised). If the system makes 6 movements (memory locked or full, sensor not memorised).
Select one of the following potions and execute it:

- **option A** – delete the motor’s ENTIRE memory.
- **option B** – delete ALL memorised transmitters.
- **option C** – delete ONE memorised transmitter.
- **option D** – delete ALL positions (“0”, “1”, “H”, etc.).

**Caution!** This deletion must be performed only when you want to reprogram all the positions, using a different procedure than the one used previously (e.g., you have used manual distance programming (A.3) and would now like to use the semi-automatic procedure (A.4)).

**Press and release the button (1 time); count 4 movements.**

**Press and release the button (1 time); count 5 movements.**

**Hold down the buttonand release it after 5 seconds; count 5 movements.**

**Hold down the button and release it after 5 seconds; count 3 movements.**

**On the transmitter you wish to delete: hold down any button either the key memorised in mode 2 or the climatic conditions sensor.**

**Hold down both buttons... release them after 5 seconds; count 5 movements.**

---

**A.8.2 - Procedure run with a transmitter which has not yet been memorised**

**NOTES AND WARNINGS**

- In order to carry out the following procedures, a transmitter with a PRG button should be used.

**A.8.2.A - Procedure run with a transmitter which has not yet been memorised and cables for the voltage free contacts**

**Disconnect the electrical power supply to the motor.**

**Connect the white and white-black wires together.**

**Reconnect the electrical power supply to the motor once again.**

**Run procedure A.8.1 in full.**

---

**A.8.2.B - Procedure run with a transmitter that has not yet been memorised and the limit switch adjustment buttons on the motor head**

**Run procedure A.8.1 in full.**

**When the light starts flashing; you have 1 minutes to complete the procedure.**

**On the motor head: hold down both buttons and release them after 5 seconds; the red led starts flashing (it turns off when the procedure is completed).**
A.9 - Assigning a behaviour to a push button panel with 2 buttons

NOTES AND WARNINGS
• Before starting, chose the behaviour from those listed in Table A: the choice must account for the mechanical operation of the buttons and the automation application.

<table>
<thead>
<tr>
<th>TABLE A – Types of behaviour for a 2 button panel (▲ and ▼)</th>
<th>Types of behaviour</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TYPE A</strong> - standard Nice operation for &quot;ERA&quot; series (factory setting).</td>
<td>• To start a movement: to raise the awning press ▲; to lower it press ▼.</td>
</tr>
<tr>
<td>Note – This behaviour is best suited to panels WITH-</td>
<td>• To stop the movement: press the opposite button from that used to start the movement.</td>
</tr>
<tr>
<td>interlocked buttons.</td>
<td>• To reverse the movement: press the opposite button from that used to start the movement.</td>
</tr>
<tr>
<td><strong>TYPE B</strong> - with Stop and immediate reverse commands.</td>
<td>• To start a movement: to raise the awning press ▲; to lower it press ▼.</td>
</tr>
<tr>
<td>Note – For this type of operation, use a panel WITH-</td>
<td>• To stop the movement: press the two buttons together.</td>
</tr>
<tr>
<td>OUt interlocked buttons.</td>
<td>• To reverse the movement: press the opposite button from that used to start the movement.</td>
</tr>
<tr>
<td><strong>TYPE C</strong> - with immediate reverse command.</td>
<td>• To start a movement: to raise the awning press ▲; to lower it press ▼.</td>
</tr>
<tr>
<td>Note – This behaviour is best suited to panels WITH-</td>
<td>• To stop the movement: press the same button used to start it.</td>
</tr>
<tr>
<td>interlocked buttons.</td>
<td>• To reverse the movement: press the opposite button from that used to start the movement.</td>
</tr>
<tr>
<td><strong>TYPE D</strong> - for hold-to-run commands only.</td>
<td>The panel works exclusively in hold-to-run mode:</td>
</tr>
<tr>
<td>Note – This behaviour is best suited to panels WITH-</td>
<td>• to start the Up movement: hold down button ▲; to stop the movement: release the button.</td>
</tr>
<tr>
<td>OUt interlocked buttons.</td>
<td>• to start the Down movement: hold down button ▼; to stop the movement: release the button.</td>
</tr>
<tr>
<td><strong>TYPE E</strong> – logic the same as for &quot;TYPE C&quot; plus intermediate position command.</td>
<td>• To start a movement: to raise the awning press ▲; to lower it press ▼.</td>
</tr>
<tr>
<td>Note – For this type of operation, use a panel WITH-</td>
<td>• To stop the movement: press the same button used to start it.</td>
</tr>
<tr>
<td>OUt interlocked buttons.</td>
<td>• To reverse the movement: press the opposite button from that used to start the movement.</td>
</tr>
<tr>
<td>(*) – If no intermediate position has been programmed, the awning will move to the exact mid-point of its travel.</td>
<td>• To move the awning to the intermediate position (*): press the two buttons together.</td>
</tr>
<tr>
<td><strong>TYPE F</strong> - with Stop command in any situation.</td>
<td>• To start a movement: to raise the awning press ▲; to lower it press ▼.</td>
</tr>
<tr>
<td>Note – This behaviour is best suited to panels WITH-</td>
<td>• To stop the movement: press any button.</td>
</tr>
<tr>
<td>interlocked buttons.</td>
<td></td>
</tr>
</tbody>
</table>

1. Press and release the button (1 time); count 2 movements.
2. Press and release the button (1 time); count 2 movements.
3. Hold down the button and release it after 5 seconds; count 3 movements.

Select the desired option and program it as follows →

4. 5 OPTIONS:
   1 press = assign TYPE A
   2 presses = assign TYPE B
   3 presses = assign TYPE C
   4 presses = assign TYPE D
   5 presses = assign TYPE E

   1 OPTION:
   1 press = assign TYPE F

Press and release the button (▲ or ▼, according to the option desired) the number of times indicated in the option you have chosen; continues →

4. 5 OPTIONS:
   1 press = assign TYPE A
   2 presses = assign TYPE B
   3 presses = assign TYPE C
   4 presses = assign TYPE D
   5 presses = assign TYPE E

   1 OPTION:
   1 press = assign TYPE F

Press and release the button (▲ or ▼, according to the option desired) the number of times indicated in the option you have chosen;

5. After about 7 seconds, the motor performs a number of movements equal to the number of pulses entered.
   Hold down the button and release it after 5 seconds; count 3 movements.

end
A.10 - Programming the motor's sensitivity to obstacles

NOTES AND WARNINGS
- Use this procedure to activate or deactivate the safety system that: a) detects the presence of an obstacle along the travel of the awning; b) reduces the motor tension on the awning when it is stationary at the Upper limit switch “0” (only if there is a box or other mechanical stop at this limit switch).
- This procedure adjusts the limit of the traction force that the motor can exert on the awning in an attempt to release it, when it is stopped suddenly by an obstacle or friction. At the same time, if the Upper limit switch “0” is the box or other mechanical stop, the system uses the same value set with this procedure, to reduce the impact of the awning against the box and loosen the tension exerted by the motor on the canvas, when the awning is stationary at the Upper limit switch “0”.
- The following options are available:
  - sensitivity to obstacles: ENABLED – this setting is only active when the awning is moving Up. The motor delivers a lot of force and will often be able to unjam the awning, even when the load is varying due to friction or small obstacles.
  - sensitivity to obstacles: DISABLED – this setting disables the safety system (factory setting).

1. Press and release the button (1 time); count 2 movements.
2. Press and release the button (1 time); count 2 movements.
3. Hold down both buttons... release them after 5 seconds; count 2 movements.
4. Continue 
   Select the desired option and program it as follows:
   2 OPTIONS:
   1 press = ENABLED function
   5 presses = DISABLED function
5. Press and release the button the number of times indicated in the option you have chosen;
6. After about 7 seconds, the motor performs a number of movements equal to the number of pulses entered.
7. Hold down the button and release it after 5 seconds; count 3 movements.

A.11 - Assigning a command (“Open” or “Step-by-step”) to a single button panel

1. Press and release the button (1 time); count 2 movements.
2. Press and release the button (1 time); count 2 movements.
3. Press and release the button (1 time); count 3 movements.
4. Continue 
   Hold down the button and release it after 5 seconds; count 2 movements.
5. Select one of the following potions and execute it:
   - option A = sets the “OPEN” command
   - option B = sets the “STEP-BY-STEP” command.
A.12 - Adjusting the awning’s cruise speed

NOTES AND WARNINGS
- For the values of the three options (minimum, nominal and maximum speed), see “Technical characteristics”.
- To determine whether the option chosen for the cruise speed of the awning is compatible with the characteristics of the your awning (weight, roller dimensions, torque), refer to “Technical characteristics”.
- The “nominal speed” setting is the factory setting.

1. Press and release the button (1 time); count 2 movements.
2. Press and release the button (1 time); count 2 movements.
3. Hold down the button and release it after 5 seconds; count 3 movements.
4. Select the desired option and program it as follows:
   - 3 OPTIONS:
     - 1 press = sets MINIMUM speed
     - 2 presses = sets NOMINAL speed
     - 3 presses = sets MAXIMUM speed.

Press and release the button the number of times indicated in the option you have chosen.
A.13 - Adjusting the acceleration (at the start of the awning movement) and deceleration (towards the end of the movement)

NOTES AND WARNINGS

• "Acceleration/deceleration" is expressed in roller rotations. This is the number of rotations of the roller the system requires to accelerate from the start of the movement to cruise speed. It also represents the number of rotations of the roller the system requires to decelerate from cruise speed to stopping at the limit switch.

• The “nominal acceleration/deceleration” setting is the factory setting.

1. Press and release the button (1 time); count 2 movements.

2. Press and release the button (1 time); count 2 movements.

3. Hold down the button and release it after 5 seconds; count 3 movements.

4. Select the desired option and program it as follows:

5 OPTIONS:

1 press = sets no acceleration/deceleration = 0 rotations
2 presses = sets brief acceleration/deceleration = 0.7 rotations
3 presses = sets nominal acceleration/deceleration = 1.5 rotations
4 presses = sets long acceleration/deceleration = 2 rotations
5 presses = sets maximum acceleration/deceleration = 3 rotations

5. Hold down the button and release it after 5 seconds; count 3 movements.

6. Press and release the button the number of times indicated in the option you have chosen.

A.14 - Adjusting the total duration of the movement

NOTES AND WARNINGS

• This adjustment can only be done if the limit switches ("0" and "1") have already been programmed.

• The value set with this procedure, together with the "acceleration/deceleration" setting (procedure A.13) determines the cruise speed. To determine whether the resulting cruise speed is compatible with the awning (weight, roller dimensions, torque), refer to "Technical characteristics".

• The factory setting is disabled.

1. Press and release the button (1 time); count 2 movements.

2. Press and release the button (1 time); count 2 movements.

3. Hold down the button and release it after 5 seconds; count 3 movements.
A.15 - Adjusting the “sun” climate sensor threshold (sensors without on-board trimmer only)

NOTES AND WARNINGS
- If the sensor has an on-board trimmer, ignore this procedure and refer to the sensor’s instructions for adjusting the threshold directly on the trimmer.
- The product is factory set to a threshold of 15 Klux.

Press and release the button the number of times indicated in the option you have chosen:

4
Select the desired option and program it as follows →

5 OPTIONS:
- 1 press = sets 7 seconds
- 2 presses = sets 15 seconds
- 3 presses = sets 20 seconds
- 4 presses = sets 30 seconds
- 5 presses = deactivates the function and sets nominal speed

Press and release the button (x 1) count 2 movements.

Press and release the button (x 1) count 2 movements.

Hold down the button and release it after 5 seconds; count 3 movements.

After about 7 seconds, the motor performs a number of movements equal to the number of pulses entered.

Press and release the button the number of times indicated in the option you have chosen:

4
Select the desired option and program it as follows →

5 OPTIONS:
- 1 press = sets the threshold to 5 Klux
- 2 presses = sets the threshold to 10 Klux
- 3 presses = sets the threshold to 15 Klux
- 4 presses = sets the threshold to 30 Klux
- 5 presses = sets the threshold to 45 Klux

Press and release the button (x ...) count 3 movements.

Press and release the button (x ...) count 3 movements.

Hold down the button and release it after 5 seconds; count 3 movements.

After about 7 seconds, the motor performs a number of movements equal to the number of pulses entered.
A.16 - Locking and unlocking the motor's memory

NOTES AND WARNINGS
• Locking the motor's memory stops any other (unscheduled or unauthorised) transmitters being memorised in it.

1. Press and release the button (1 time); count 2 movements.
2. Press and release the button (1 time); count 2 movements.
3. Press and release the button (1 time); count 3 movements.

4. Hold down both buttons... release them after 5 seconds; count 4 movements.

Select one of the following potions and execute it:
• option A – LOCK motor's memory.
• option B – UNLOCK motor's memory.

B.1 - Precise adjustment of the UP (“0”) and DOWN (“1”) limit switch positions

NOTES AND WARNINGS
• This adjustment can be done at any time, on condition that the limit switch positions have already been programmed.
• The following procedure describes the setting of the Upper limit switch “0”. To adjust the Lower limit switch “1”: (in step 1) command a DOWN movement (rather than UP); (in step 2) adjust the height of limit switch “1” (instead of the height of limit switch “0”); (in step 3) as in the figure below.
**GENERAL INFORMATION ABOUT GROUP “D” PROCEDURES**

- Group D procedures must be run with a button panel WITHOUT mechanically interlocked, stable buttons.
- The motor should preferably be new, i.e. NOT previously programmed. In any case, the motor MAY NOT have any limit switch positions or transmitters already in memory.
- If the limit switch positions have already been programmed with procedure D.1 and you wish to modify them, you must FIRST delete the old positions with procedure D.2.
- After programming the motor with the Group D procedures, the button panel will work only in hold-to-run mode, with setting “D” from procedure A.9. You will not be able to memorise a transmitter (this will only be possible after having deleted the motor’s memory with procedure D.2).
- To be absolutely sure that the automation’s user cannot inadvertently delete the limit switch positions, install a button panel with interlocked buttons once you have finished programming the unit.

---

**D.1 - MANUAL programming of the UP (“0”) and DOWN (“1”) limit switches**

**NOTES AND WARNINGS**

- This procedure must be done with a wall-mounted button panel and can be used instead of procedures A.3.1 and A.3.2, or when you do not wish to use a radio transmitter (or equivalent device) for programming the limit switches.

1. **Command an UP movement ->**
   - Hold down the button ...
   - wait ...
   - ... release the button as soon as the awning reaches the "0" position (UP limit switch).

2. **Command an UP movement ->**
   - Hold down both buttons...
   - release them after 5 seconds;
   - count 2 movements.

3. **Command an DOWN movement ->**
   - Hold down the button ...
   - wait ...
   - ... release the button as soon as the awning reaches position "1" (DOWN limit switch).

4. **Command an DOWN movement ->**
   - Hold down both buttons...
   - release them after 5 seconds;
   - count 2 movements.

*Mapping the Up and Down movements to the command buttons (▲ and ▼ respectively)*

At the end of this procedure, the awning may be operated by simply pressing the buttons briefly. We recommend moving the awning a few times to ensure that the Up and Down movements are properly mapped to ▲ (up) and ▼ (down). If not, swap around the white-orange and white wires behind the button panel.
D.2 - Deleting the ENTIRE memory

NOTES AND WARNINGS
• Caution! – This procedure deletes ALL data in the motor's memory, including limit switch positions “0” and “1”.

1

2

3

end

Hold down both buttons and count 2 movements; immediately release only button \( \uparrow \); keep holding down button \( \downarrow \).

Within 5 seconds – Press and release the button \( 3 \) times; count 5 movements; release button \( \uparrow \).

E

NOTES AND WARNINGS
The programming with the “NFC” technology is not yet available on this motor. For more information contact the Nice Technical Assistance.

Using a smartphone equipped with NFC technology and a software application produced by Nice (to be installed on your smartphone), you can configure the motors before installing them, even without the need to supply power. You can also perform a hardware and software diagnostic of the motor, even if it is damaged.
5.1 - Opening, closing and stopping the awning
In general, the awning is operated by pressing the button corresponding to the desired movement: ▲ = open; ▼ = close; ● = stop. In particular, if using a button panel, refer to the programming done by the installer with procedures A.9 and A.11.

5.2 - Partially opening/closing the awning (height “H”)
In general, if a first intermediate position has been programmed, press buttons ▲ and ▼ together to reach it. For the other intermediate positions, refer to the programming done by the installer with procedure A.5. In particular, if using a button panel, the first intermediate position can be commanded only if the installer has set type "E" with procedure A.9.

5.3 - Controlling the awning with a transmitter with multiple groups
If the transmitter controls multiple groups of screen motors, before sending a command, select the group to which the motor being programmed belongs. For further information, refer to the transmitter manual.

5.4 - The user can vary the awning speed with a transmitter equipped with a “slider” surface
The awning speed command is given by the user, and is very useful for moving the awning slowly (low speed) or more quickly. If you use a Nice transmitter with “slider” surface (e.g. P1V, etc.) you can vary the speed of the awning as follows: the centre of the slider calls up the speed (100%) set by the installer with procedures A.12 or A.14; the top of the slider moves the awning at 150% of this speed; and the bottom of the slider moves the awning at 33% of the set speed (the speed will in any case be between the Minimum and Maximum speeds permitted by the motor).

5.5 - Enabling/disabling the automatic commands sent to the motor directly by the climate sensors (Table B)
If the automation has climate sensors and the transmitter you are using has buttons ⏯ and ⏫, you can choose whether to enable (with button ⏯) or disable (with button ⏫) exception of the automatic commands sent to the motor by the climate sensors. In brief,
- if reception is enabled (button ⏯) the motor will operate automatically.
- if reception is disabled (with button ⏫) the motor will operate manually.
When reception is enabled, the user can send manual commands at any time: these override the automatic operation of the automated device. When reception is disabled, the automated device operates exclusively with the manual commands sent by the user.

--- DEFINITIONS ---
• “Over-threshold” Intensity of sun/wind = a condition in which the atmospheric phenomenon stands at values that are above the value set as threshold.
• “Under-threshold” Intensity of sun/wind = a condition in which the atmospheric phenomenon stands at values ranging from zero to half of the value set as threshold.

5.5.1 - Behaviour of the motor in the presence of “Sun” sensor
• When the intensity of the sunlight reaches the over-threshold, after 2 minutes from the beginning of this condition the motor autonomously performs a down movement.
• When the intensity of the sunlight reaches the under-threshold, after 5 minutes from the beginning of this condition the motor autonomously performs an up movement.

Note – Momentary drops in solar intensity, lasting less than 15 minutes, are not detected. The manual commands of the user always remain active and are added to those generated automatically by the system.

5.6 - “Obstacle detection” function
This function is a safety feature which trips automatically when the movement of the awning, up or down, is blocked by an obstacle (physical object, person). The motor immediately stops the movement in progress and performs a brief inversion of the motor (if programmed to do so, see procedure A.10).

5.7 - Reoptimising the limit switch positions
It is normal for limit switch positions to move by a few mm or cm over the days following installation. This may be due to the awning’s or frame’s material settling or beddimg in; this often causes the awning to droop or go out of alignment with nearby awnings. In such cases, if the head of the motor is accessible, you can very easily reoptimise either or both of the limit switch positions with procedure B.1.

5.8 - “Automatic limit switch update” function
Caution! – This function is only available if the limit switches have been programmed with the semi-automatic procedure (par. A.4). This function cannot be disabled.

In ordinary use, the function activates automatically during an up movement, when the awning collides with the box or other mechanical stop (Up limit switch “”). On each collision, the function measures the position of the Up limit switch and memorises the new value in place of the previous one. Over time, this compensates for deformations in the structure due to wear and thermal cycles, so that the awning always stops precisely at the Up limit position.

5.9 - Maximum continuous cycle (“thermal protection” function)
The motor is designed for residential use, in other words, for intermittent service. If used continuously for a long time, beyond its rating (see “Technical characteristics”), the system protects the motor against overheating by stopping any further movements until its temperature returns to within the rated limits.

5.10 - Diagnostics and alarm function
On the head of the motor there is a Led that signals the alarm status (with a red light) and the installation status (with a green light). If it needs to report both at once, the system always gives priority to alarms. For the meanings of the light signals, see Table C.
### TABLE C – Motor head led signals

<table>
<thead>
<tr>
<th>GREEN LED</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 flashes</td>
<td>= at least 1 transmitter memorised and 2 limit positions programmed.</td>
</tr>
<tr>
<td>1 flash</td>
<td>= at least 1 transmitter memorised and 1 limit positions programmed.</td>
</tr>
<tr>
<td>2 flashes</td>
<td>= at least 1 transmitter memorised and no limit positions programmed.</td>
</tr>
<tr>
<td>3 flashes</td>
<td>= no transmitter memorised (the limit switch status is not shown by the led).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RED LED</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 flashes</td>
<td>= no error.</td>
</tr>
<tr>
<td>steady on</td>
<td>= thermal protection function in progress.</td>
</tr>
<tr>
<td>1 flash</td>
<td>= the last movement was automatically interrupted by the “Obstacle detection” function.</td>
</tr>
<tr>
<td>2 flashes</td>
<td>= load too high relative to motor nameplate rating.</td>
</tr>
<tr>
<td>3 flashes</td>
<td>= the voltage supplied to the motor is less than 24 V. The motor will still work, however the rated operating torque is not guaranteed.</td>
</tr>
<tr>
<td>4 flashes</td>
<td>= the voltage supplied to the motor is less than 24 V. The motor will still work, however the rated operating torque is not guaranteed.</td>
</tr>
<tr>
<td>5 flashes</td>
<td>= serious error - 4 (control circuit temperature too high).</td>
</tr>
<tr>
<td>6 flashes</td>
<td>= serious error - 5 (brake malfunction).</td>
</tr>
<tr>
<td>7 flashes</td>
<td>= serious error - 6 (brake malfunction).</td>
</tr>
<tr>
<td>8 flashes</td>
<td>= serious error - 7.</td>
</tr>
<tr>
<td>9 flashes</td>
<td>= serious error - 8.</td>
</tr>
<tr>
<td>10 flashes</td>
<td>= serious error - 9.</td>
</tr>
<tr>
<td>11 flashes</td>
<td>= serious error - 10.</td>
</tr>
</tbody>
</table>

The motor repeats the report message on the status of the installation by performing some brief movements when a movement is commanded. To understand the significance of these movements read Table D.

### TABLE D – Movement signals

<table>
<thead>
<tr>
<th>No. of MOVEMENTS</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 movements</td>
<td>= at least 1 transmitter memorised and 2 limit positions programmed.</td>
</tr>
<tr>
<td>1 movement</td>
<td>= no transmitter memorised (the limit switch status is not shown by the movements).</td>
</tr>
<tr>
<td>2 movements</td>
<td>= at least 1 transmitter memorised and at least 1 limit position still to be programmed.</td>
</tr>
<tr>
<td>5 movements</td>
<td>= serious motor memory error.</td>
</tr>
</tbody>
</table>

What to do if...
(troubleshooting guide)

In general, to better identify the problem, refer to Table C (and D), section 5.10.

- **Powering an electrical phase, the motor does not move:**
  After excluding the possibility that thermal protection is active, in which case it is sufficient to wait for the motor to cool down, make sure the mains voltage corresponds to the values indicated in the "technical data" chapter of this manual by measuring the voltage between the "common" wire and the electrical phase wire supplied with current. If the problem is still present, disconnect the power cord from the motor (fig. 4-I) and connect it again.

- **When an Up command is sent, the motor does not start:**
  This can happen if the awning is near the Upper limit switch (“0”). In this case you must lower the awning a little bit and give the Raise command again.

- **The system operates in the emergency condition with an operator present (hold-to-run):**
  – Check to see if the motor has undergone a significant electrical or mechanical shock.
  – Make sure each part of the motor is still in good condition.
  – Delete the UP (“0”) and DOWN (“1”) limit position and reprogram them.

### Disposal of the product

As in installation, also at the end of product lifetime, the disassembly and scrapping operations must be performed by qualified personnel. This product comprises various types of materials: some may be recycled others must be disposed of. Seek information on the recycling and disposal systems envisaged by the local regulations in your area for this product category. Caution! – some parts of the product may contain pollutant or hazardous substances which, if disposed of into the environment, may cause serious damage to the environment or physical health. As indicated by the symbol on the left, disposal of this product in domestic waste is strictly prohibited. Separate the waste into categories for disposal, according to the methods envisaged by current legislation in your area, or return the product to the retailer when purchasing a new version. Caution! – Local legislation may envisage serious fines in the event of abusive disposal of this product.

The packing materials of the product must be disposed of in compliance with local regulations.

### Technical Characteristics

Refer to the technical characteristics stated on the motor’s nameplate.

**Note:** • All technical specifications stated herein refer to an ambient temperature of 20° C (± 5° C). • Nice S.p.A. reserves the right to apply modifications to products at any time when deemed necessary, maintaining the same intended use and functionality.