Nice

E EDGE SI 228 LI ION

Tubular Motor

EN - Instructions and warnings for installation and use

GENERAL WARNINGS: SAFETY - INSTALLATION - USE (original instructions in Italian)

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

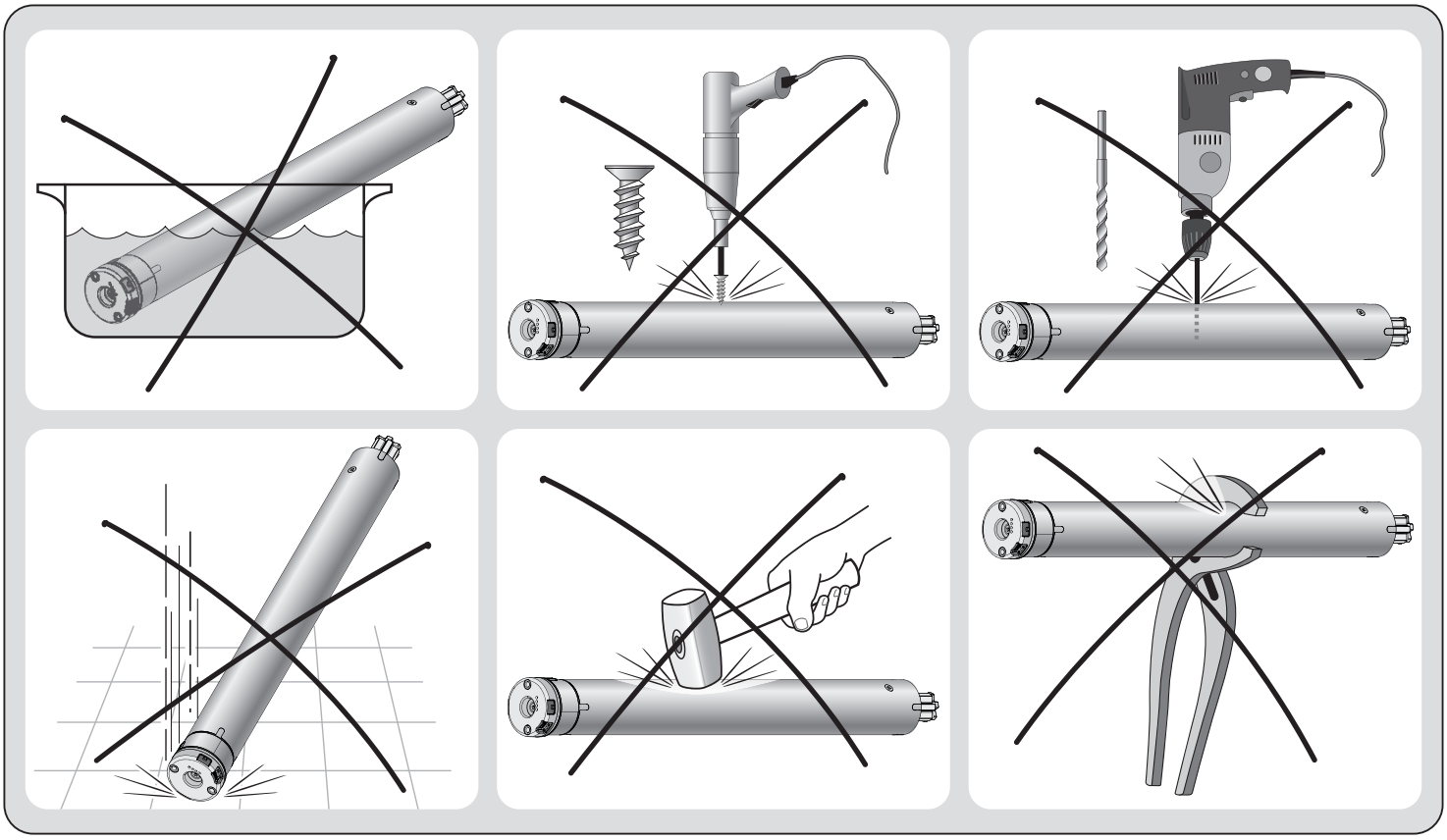
ATTENTION In order to avoid any danger from inadvertent resetting of the thermal cut-off device, this appliance must not be powered through an external switching device, such as a timer, or connected to a supply that is regularly powered or switched off by the circuit

- 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
- 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.
- 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'

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
  NOTE: if removable, the manoeuvring assembly must be kept close to the door
- 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

Note for reading this Manual – Some of the figures referred to in the text appear at the end of the manual.

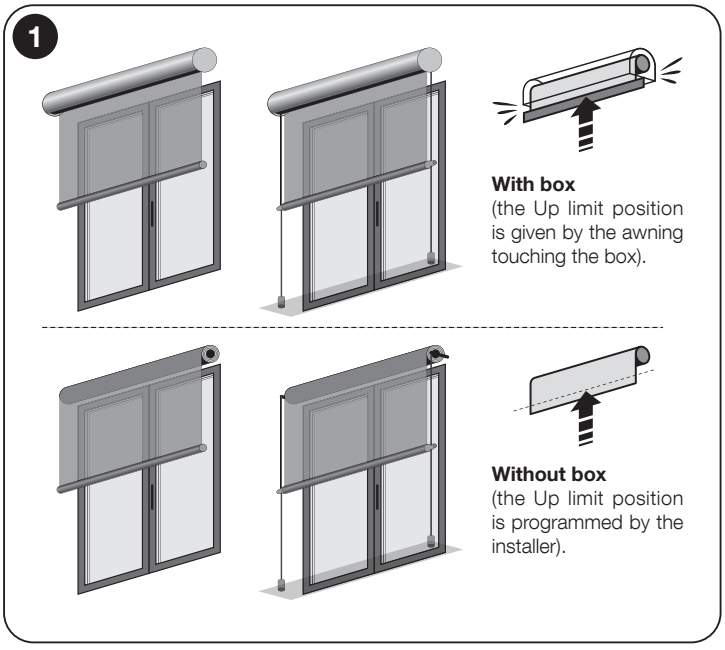


1 PRODUCT DESCRIPTION AND INTENDED USE

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 by a rechargeable battery (consult the motor's nameplate ratings);
- 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;
- it can be controlled with a radio transmitter (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 allows you to set the nominal awning speed, so that the user can select five commands;
- 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;
- it enables you to customise the radio transmitter commands (Mode II);
- 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.



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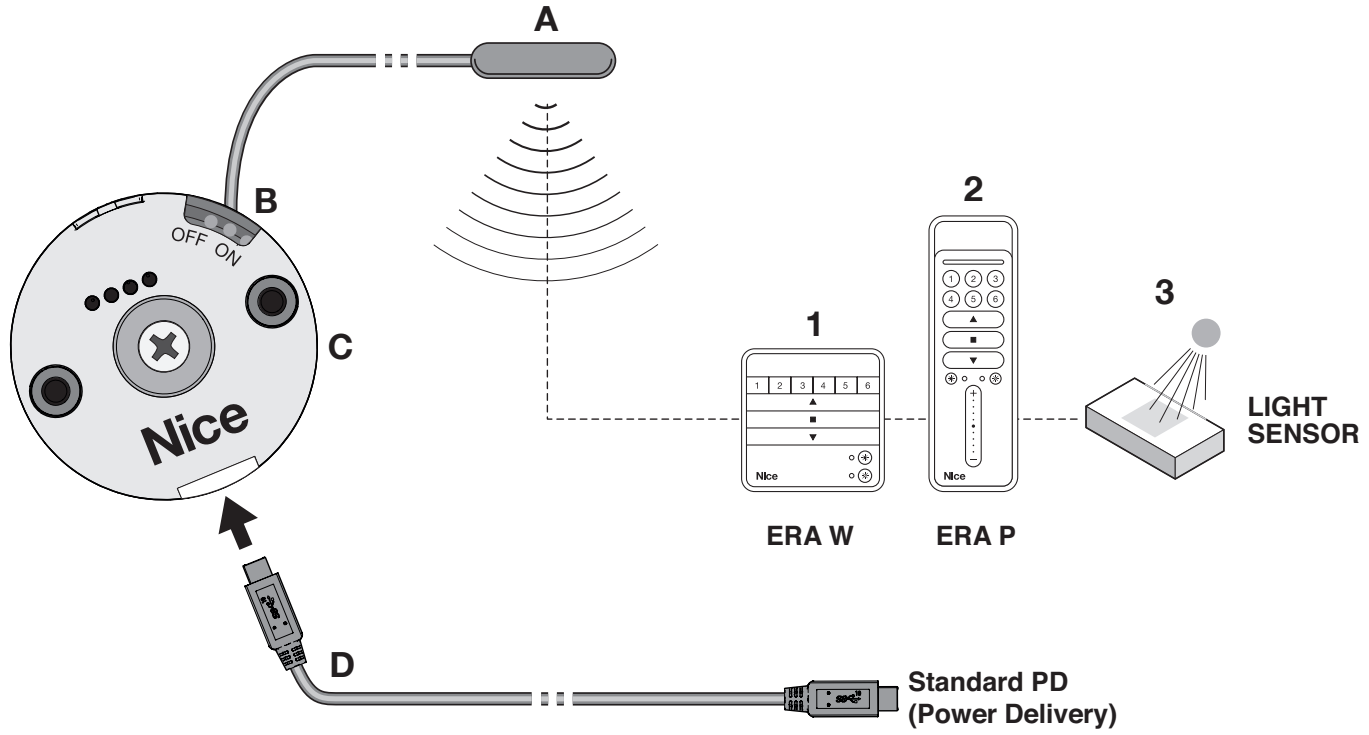


LEGEND			
A	Aerial cable	**1**	"ERA W" portable transmitter
B	ON/OFF switch	**2**	"ERA P" portable transmitter
C	Electronic motor head	**3**	Climate sensor (wired)
D	USB TYPE C cable for charging the battery (not supplied)		

2 INSTALLATION OF THE MOTOR AND THE ACCESSORIES

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 the "Guide to Selection" section, in the "Nice Screen" catalogue, – also available on www.niceforyou.com.
- Check the diameter of the winding roller. This must be chosen according to the motor torque, as follows:
  – For motors of size "**S**" (Ø = 35 mm) the minimum inside diameter of the winding roller must be 40 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**), refer to the "Nice Screen" catalogue, which is also available on www.niceforyou.com.

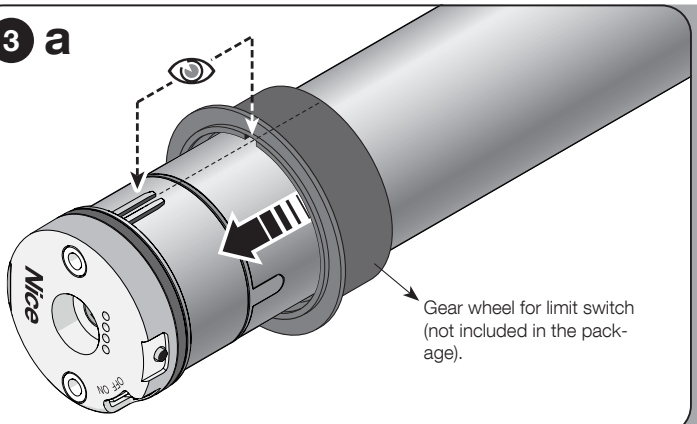
2.3 - Installation of accessories

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).

Accessories connectable via radio:

– Portable transmitters and climate sensors are available. For their programming / memorisation, refer to the procedures given in this manual and those stated in the device manuals.

3 a



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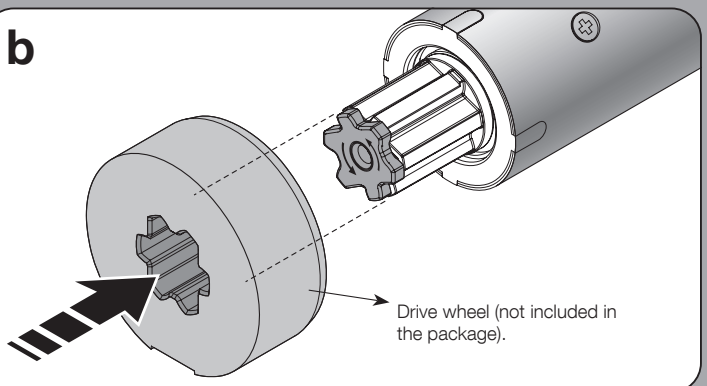

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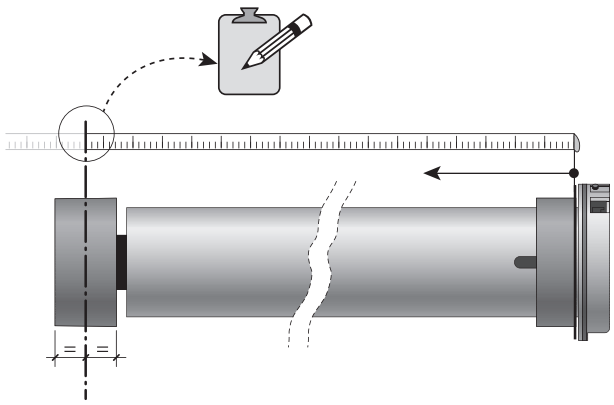

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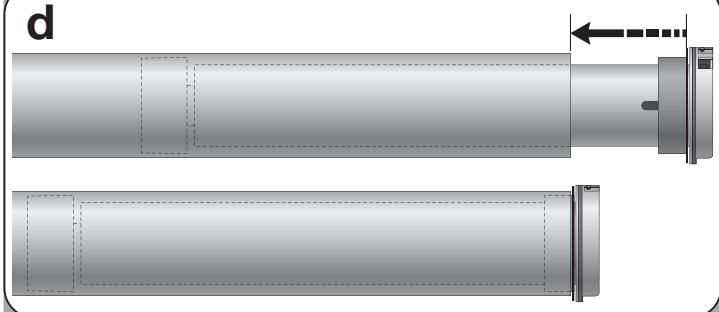

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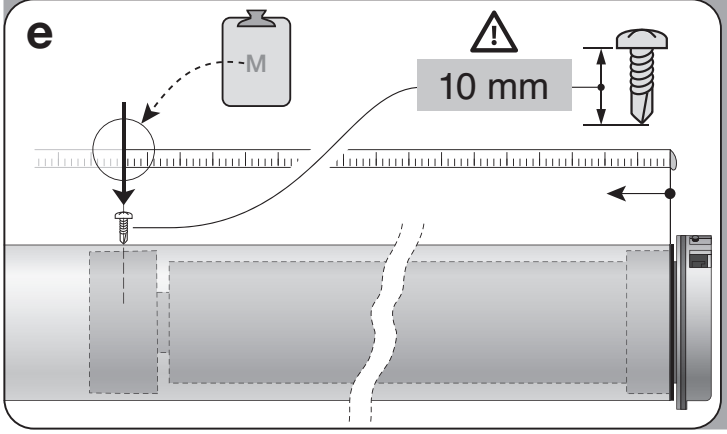

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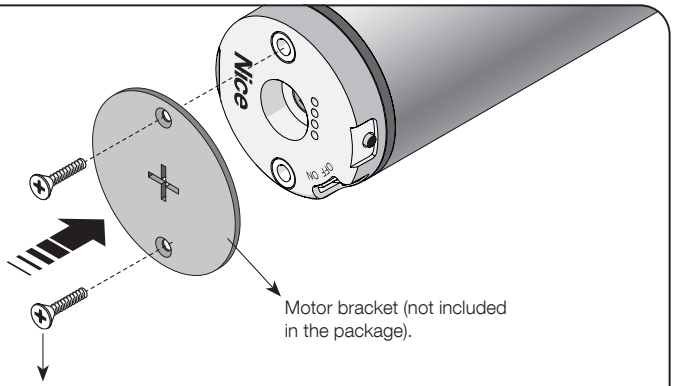
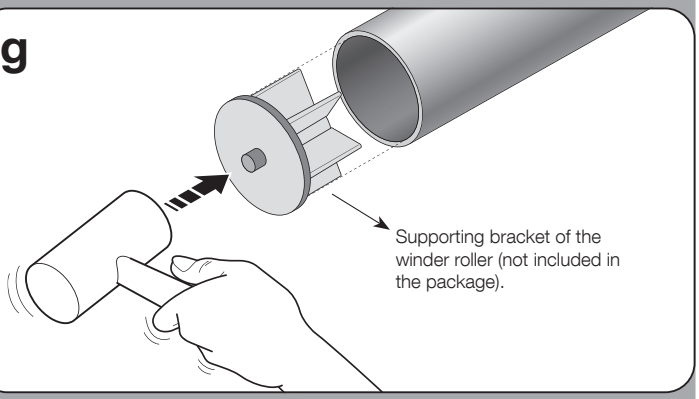


2 screws: self-tapping without point, for plastic materials.
Diameter: 4 mm; **length of threaded part:** = min. 5 mm - max 8 mm

g



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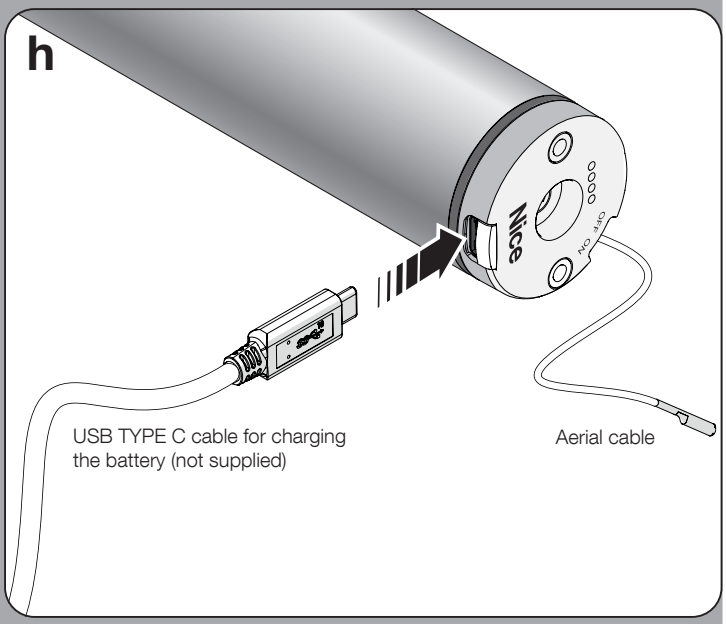

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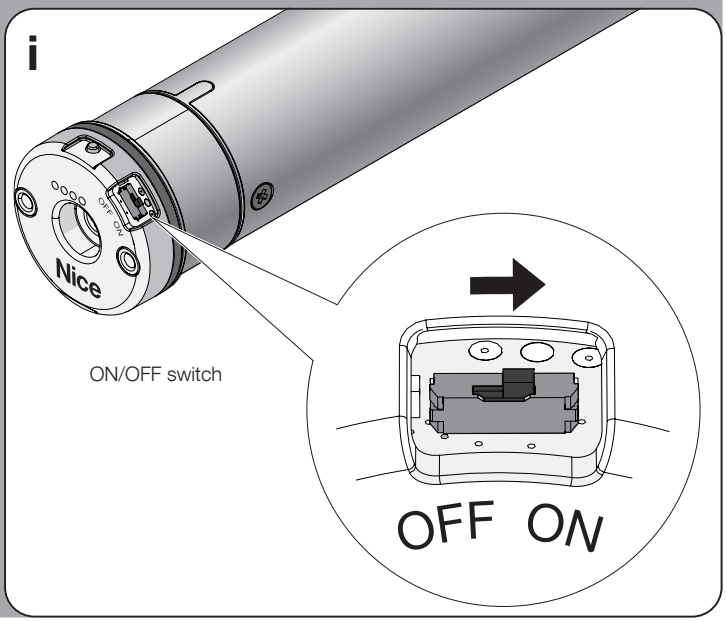


3 PROGRAMMING AND ADJUSTMENTS

3.1 - 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 ▲, ■, ▼, **PRG**, **ESC** keys.

3.2 - 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)

3.3 - General warnings

- The limit switch must be adjusted after installing the motor and switching it on.
- 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 cancellation 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 ↑↓ .

3.4 - 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.5 only.

3.4.1 - 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.5.1.A - A.5.1.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.5.2.A - A.5.2.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.

3.4.2 - Maximum number of transmitters that can be memorised

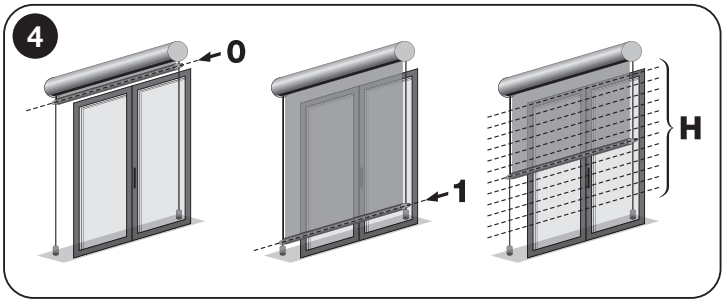
The motor has **30 memory locations**. A location can either memorise a single transmitter (in Mode I) or a single button (in Mode II) or a single wireless climate sensor (up to 5 sensors).

3.5 - Programming multiple motors with a single channel transmitter

In such cases, to avoid having to switch off all the motors (switch shifted to OFF) not involved in the programming, we recommend proceeding 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.11) only after having programmed the limit switches.



— GROUP “A” PROCEDURES —

Procedures which can only be completed with a Nice “ERA P” or “ERA W” transmitter with the ▲, ■, ▼, PRG, ESC keys

GENERAL WARNINGS RELATING TO THE PROCEDURES

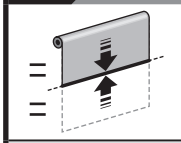
- Before starting any programming, move the awning to an intermediate position, away from the Up and Down limit switches.
- If the programming transmitter controls **multiple groups of screen motors**, before sending a command requested by the procedure, select the group to which the motor being programmed 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.5.1.A or A.5.1.B).

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

NOTES AND WARNINGS

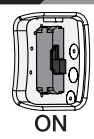
- This procedure must be used only for memorising the FIRST TRANSMITTER. If **the motor does not complete the procedure, this is because at least one transmitter has already been memorised**; to memorise supplementary transmitters, you must use the procedures described in section A.5.
- If all transmitters 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 range of the transmitter to be memorised, there are several motors to be powered, to memorise the first transmitter in one of these **it is not necessary to switch off (switch shifted to OFF) all the other motors**; simply proceed as follows:

1

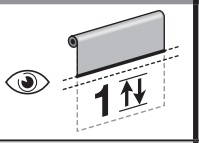


Move the awning to a half-way position.

2

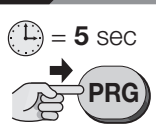


Shift the switch on the head of the motor to **ON**;

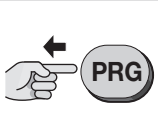


count 1 movement.

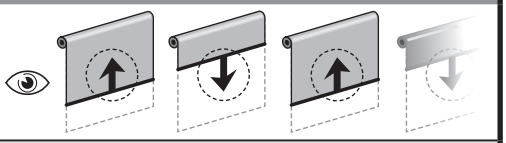
3



Hold down the button and

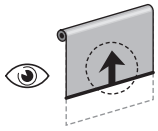


release it after **5 seconds**;

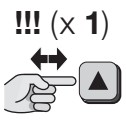


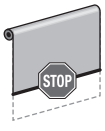
over the next 2 minutes, all motors within the transmitter's range in which no transmitters have yet been memorised will move their awnings up and down, for random periods of time.

4 → 5

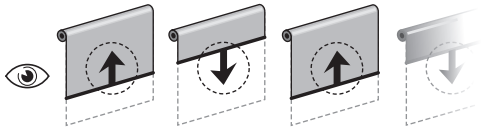


Select the awning you wish to program and, **at the start of an UP movement**, stop it IMMEDIATELY, by pressing and releasing the button (**1 time**):



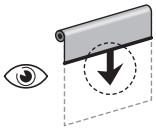


the movement will stop briefly (= command received) and ...

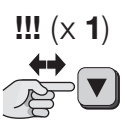


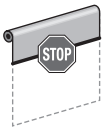
... the awning will resume its up and down movements, each of random duration.

5 end

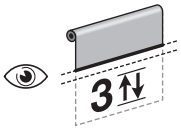


Observe the same awning and, **at the start of a DOWN movement**, stop the movement IMMEDIATELY, by pressing and releasing the button (**1 time**):





the movement will stop;



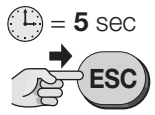
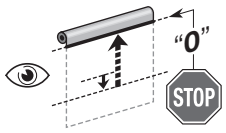
count 3 movements.

A A.2 - Temporarily deactivating (and reactivating) motors you do not wish to program

NOTES AND WARNINGS

- This procedure, which is useful for programming the limit switches of multiple channels without switching the motors off, temporarily locks out (for 5 minutes) only the motors that have both the limit switch positions (up and down) already programmed.

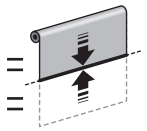
A.2.1 - To temporarily deactivate motors you do not wish to program

1			2 end
			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.**
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".	For a period of 5 minutes, the locked out motors will not respond to commands.

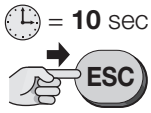
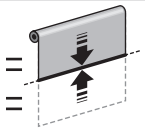
A.2.2 - To reactivate temporarily locked out motors

You can reactivate the motors in two ways:

option – A

1 end	
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

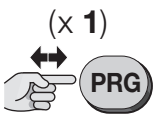
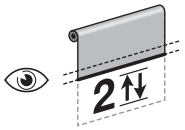
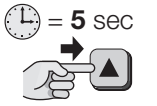
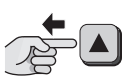
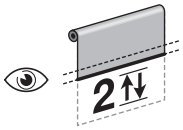
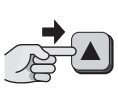
1				end
During the 5 minute period the locked out motors can be reactivated at any time by the user.				
During the **5 minutes**, at any time...	... hold down the button and	release it after **10 seconds**;	the system will then move the awning to the mid position.	

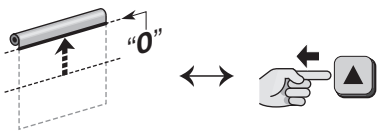
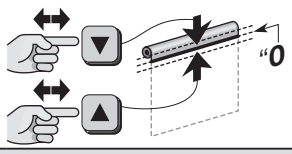
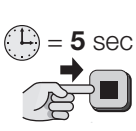
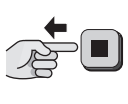
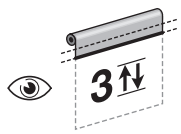
A A.3 - MANUAL programming of the UP ("0") and DOWN ("1") limit switches

NOTES AND WARNINGS

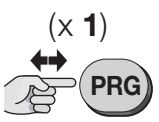
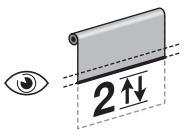
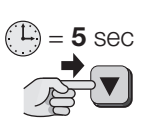
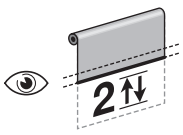
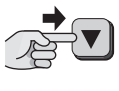
- **This procedure is obligatory only for awnings without a mechanical stop at the Up position.**
- After the limit positions have been programmed, the awning can be controlled by simply pressing the appropriate buttons on the control unit. The awning will move between the positions set with procedures A.3.1 and A.3.2.

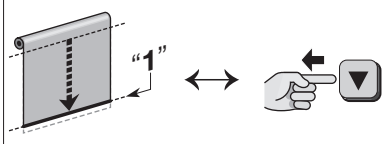
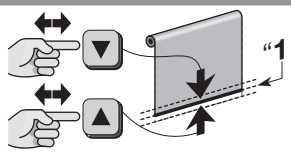
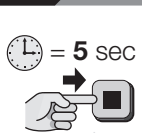
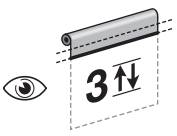
A.3.1 - To program the UP limit switch ("0")

1		2			3 continues →
					**Command an UP movement →** 
Press and release the button (**1 time**);	count 2 movements.	Hold down the button and	release it after **5 seconds**;	count 2 movements.	Hold down the button and wait...

→ 3	4	5 end		
	**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.	Hold down the button and	release it after **5 seconds**;	count 3 movements.

A.3.2 - To program the DOWN limit switch (“1”)

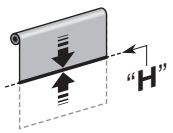
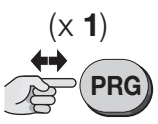
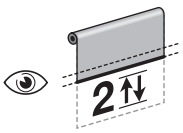
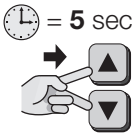
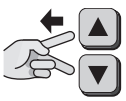
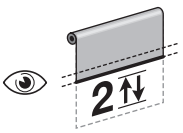
1		2			3 continues →
					**Command an DOWN movement →** 
Press and release the button (**1 time**);	count 2 movements.	Hold down the button and	release it after **5 seconds**;	count 2 movements.	Hold down the button and wait...

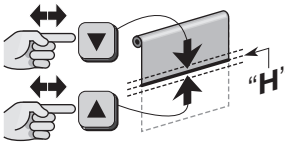
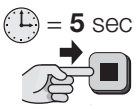
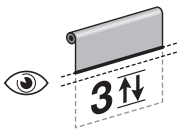
→ 3	4		5		end
	**Finely adjusting the position of limit switch “1” →** 				
... release the button as soon as the awning reaches **position “1”** (**DOWN** limit switch).	Press the buttons until you reach the desired position.		Hold down the button and	release it after **5 seconds**;	count 3 movements.

A - A.4 - Programming an INTERMEDIATE POSITION (position “H”)

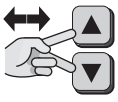
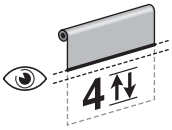
NOTES AND WARNINGS

- This procedure memorises an intermediate position (position “H”) between the Up (“0”) and Down (“1”) limit switch positions. When the automation is being used, after giving the **intermediate position** command, the system will automatically stop the awning at the programmed “H” position.
- You can memorise up to 30 “H” positions wherever you wish, provided that these are between the two limit switch positions. These positions can only be programmed after the limit switch positions. Repeat this procedure for each position you wish to memorise.
- The first “H” position must be programmed using the buttons ▲+▼, **on the transmitter used to run the procedure itself**. However, each subsequent position “H” must be programmed using a button **on another non-memorised transmitter**.
- To change an existing “H” position, move the awning to the desired height and run this procedure; in **step 06**, however, press the button associated with the existing “H” position you are changing.

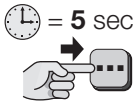
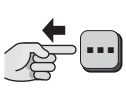
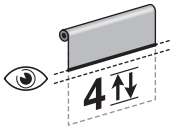
1	2		3		→ 4
					
Move the awning to the desired “**H**” position.	Press and release the button (**1 time**);	count 2 movements.	Hold down both buttons...	release them after **5 seconds**;	count 2 movements.

4	5			6 ...
Precisely adjusting the “H” position → 				Select one of the following potions and execute it: • **option A** – to memorise the FIRST “H” position. • **option B** – to memorise a SUPPLEMENTARY “H” position.
Press the buttons until you reach the desired position.	Hold down the button and	release it after **5 seconds**;	count 3 movements.	

option – A

6	end
	
Press and release the two keys together;	count 4 movements.

option – B

6		end
		
On ANOTHER transmitter, which has NOT been memorised: hold down any button you wish;	release it after **5 seconds**;	count 4 movements.

A.5 - Memorising ANOTHER TRANSMITTER (second, third, etc.)

NOTES AND WARNINGS

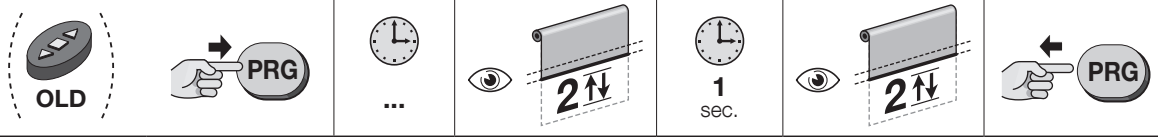
- To run procedures A.5.1.**A** and A.5.2.**A**, you must have a **new transmitter** to memorise and an **old** previously memorised transmitter. The two transmitters must have the "PRG" and "ESC" buttons (like "ERA P" and "ERA W" transmitters).
- To run procedures A.5.1.**B** and A.5.2.**B** you must have a **new** transmitter to memorise, chosen from the "Nice Screen" catalogue , and an **old** previously memorised transmitter.

A.5.1 - To memorise the transmitter buttons in "Mode I" ("Standard mode")

- Procedures A.5.1**A** and A.5.1.**B** 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. 3.4.1-A).

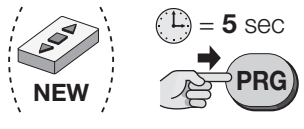
A.5.1.**A** - Procedure for transmitters equipped with the "PRG" and "ESC" buttons ("ERA P" and "ERA W")

1 → 2



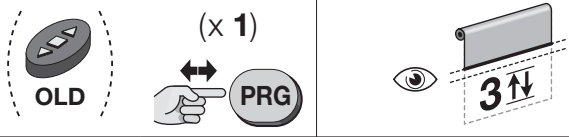
On the OLD transmitter: hold down the button and	wait ...	count 2 movements;	wait again...	count 2 more movements;	release the button.

2



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

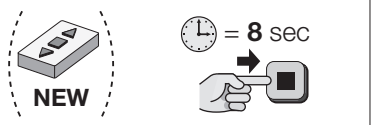
3 end



On the OLD 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.5.1.**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**;

2 → 3

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

3 end

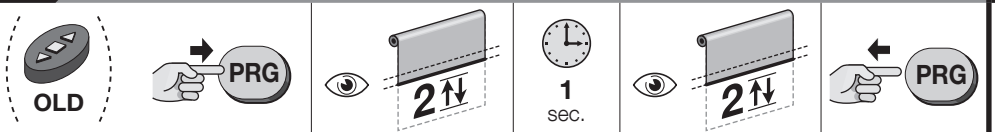
On the NEW transmitter: press and release the button (**1 time**);	count **3 movements (= transmitter memorised)**. If the system makes 6 movements (= memory locked or full, transmitter not memorised).

A.5.2 - To memorise the transmitter buttons in "Mode II" ("Custom mode")

- Procedures A.5.2**A** and A.5.2.**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 3.4.1-B).
- Procedures A.5.2**A** and A.5.2.**B** memorise a single button. Repeat this operation to memorise another button.

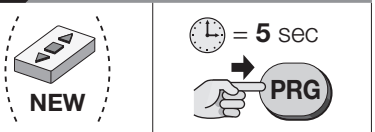
A.5.2.**A** - Procedure for transmitters equipped with the “PRG” and “ESC” buttons (“ERA P” and “ERA W”)

1 continues →



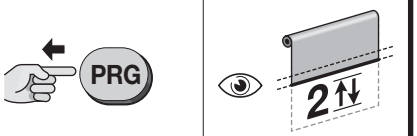
On the OLD transmitter: Hold down the button and wait...	count 2 movements;	wait again...	count 2 more movements;	release the button.

2 continues →



On the NEW transmitter: hold down the button and

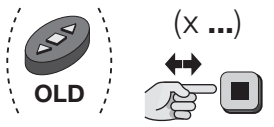
→ **2**



release it after **5 seconds**; | count 2 movements.

3 continues →

Select the desired option and program it as follows →

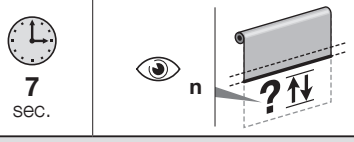


8 OPTIONS:

1 press = Open > Stop > Close > Stop > ...
2 presses = Open
3 presses = Close
4 presses = Stop
5 presses = Open after 10 seconds
7 presses = Open after 20 seconds
8 presses = Close after 10 seconds
9 presses = Close after 20 seconds

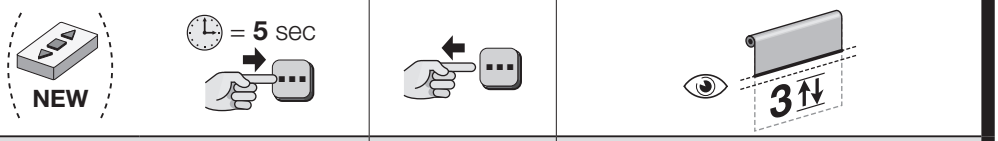
On the OLD transmitter: Press and release the button **the number of times** indicated in the option you have chosen;

→ **3**



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

4 end

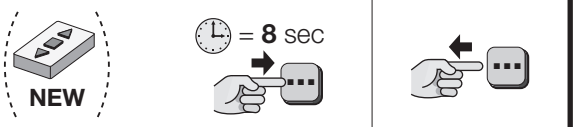


On the NEW transmitter: select the button you want to memorise; hold it down and | release it after **5 seconds**; | count **3 movements (= transmitter memorised)**. If the system makes 6 movements (= memory locked or full, transmitter not memorised).

A.5.2.**B** - Procedure for transmitters without the “PRG” and “ESC” buttons”

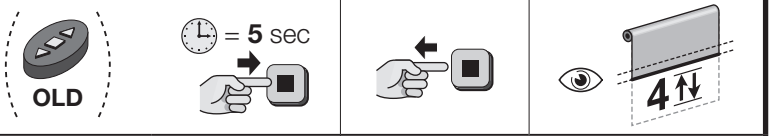
- When performing the procedure, you can cancel the programming at any time by holding down ■ and ▼ together for 4 seconds. Alternatively, do not press any keys and wait 60 seconds for the motor to perform 6 movements.

1



On the NEW transmitter: hold down the **button you want to memorise**; | release it after **8 seconds**;

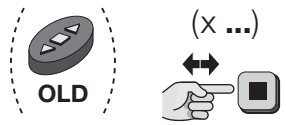
2 → **3**



On the OLD transmitter: hold down the button and | release it after **5 seconds**; | count 4 movements.

3 continues →

Select the desired option and program it as follows →

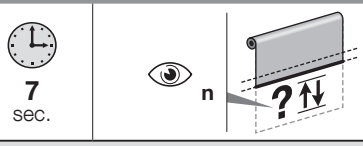


8 OPTIONS:

1 press = Open > Stop > Close > Stop > ...
2 presses = Open
3 presses = Close
4 presses = Stop
5 presses = Open after 10 seconds
7 presses = Open after 20 seconds
8 presses = Close after 10 seconds
9 presses = Close after 20 seconds

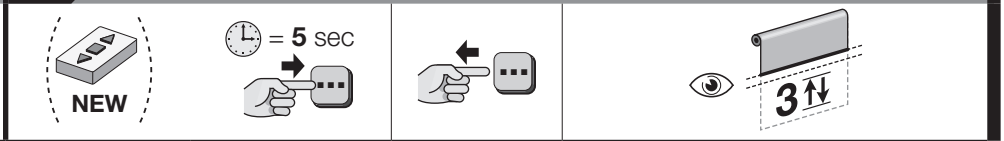
On the OLD transmitter: press and release the button **the number of times** indicated in the option you have chosen;

→ **3**



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

4 end

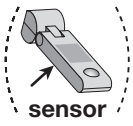
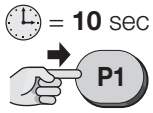
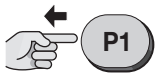
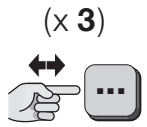
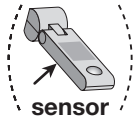
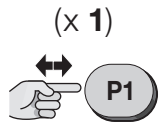
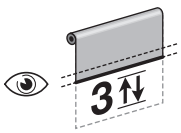


On the NEW transmitter: hold down **the same button you pressed in Step 1**; | release it after **5 seconds**; | count **3 movements (= transmitter memorised)**. If the system makes 6 movements (= memory locked or full, transmitter not memorised).

A.6 - 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. 3.4.1-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.

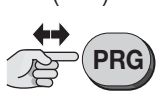
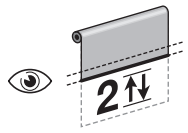
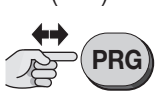
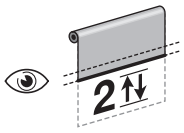
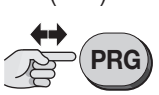
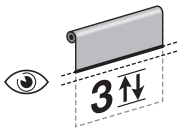
1			2		3		end
							
On the climate SENSOR: hold down the **yellow button "P1";**		release it after **10 seconds**;	**On the OLD transmitter:** press and release (**3 times**) any button.		**On the climate sensor:** press and release (**1 time**) the **yellow button "P1"**;		count **3 movements (= sensor memorised)**. If the system makes 6 movements (= memory locked or full, sensor not memorised).

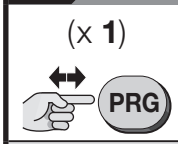
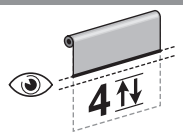
A.7 - TOTAL or PARTIAL deletion of memory

NOTES AND WARNINGS

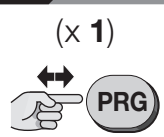
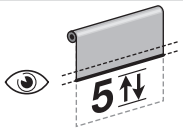
- In order to carry out the following deletion procedures, the transmitter must be memorised in mode I.

A.7.1 - Procedure run with a memorised transmitter

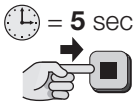
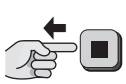
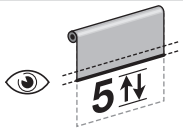
1		2		3	→ 4
					
Press and release the button (**1 time**);	count 2 movements.	Press and release the button (**1 time**);	count 2 movements.	Press and release the button (**1 time**);	count 3 movements.

4		5 ...
		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 should only be performed if you wish reprogram the distances.
Press and release the button (**1 time**);	count 4 movements.	

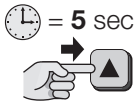
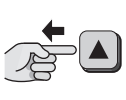
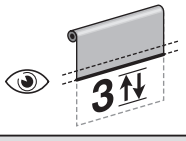
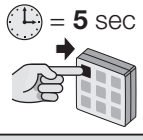
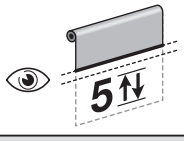
option – A

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

option – B

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

option – C

5			6	end
				
Hold down the button;	release it after **5 seconds**;	count 3 movements.	**On the transmitter to be deleted:** press and hold any button or the button memorised in mode 2 or the button corresponding to position H or the climate sensor button;	count 5 movements.

option – D

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

A.7.2 - 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.7.2.**A** - Procedure run with a non-memorised transmitter using the button on the head of the motor

1			2 ...
= **7** sec		when the light starts flashing, you have **1 minutes** to complete the procedure.	**Run procedure A.7.1 in full.**
On the motor head: press and hold the button;	release it after **7 seconds**;	the **red led** starts flashing (it turns off when the procedure is completed).	

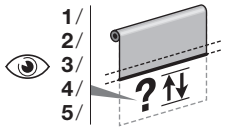
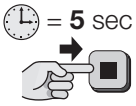
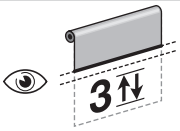
A – A.8 - Adjusting the motor's sensitivity to obstacles

NOTES AND WARNINGS

• Use this procedure to activate, adjust 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:
– **MINIMUM sensitivity(*)** – 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.
– **ULTRA sensitivity(*)** – this setting is active when the awning is moving Down.
– **ULTRA sensitivity(*) with brief inversion** – this setting is active when the awning is moving Up or Down. If an obstacle is detected when the awning is moving Down, the motor briefly inverts the movement to free it.
– **ULTRA sensitivity(*) with full inversion** – this setting is active when the awning is moving Up or Down. If an obstacle is detected when the awning is moving Up, the motor inverts the movement and stops the awning at the Lowest point "1".
– **sensitivity DISABLED** – this setting disables the safety system (factory setting).

1		2		3		→ 4
(x **1**) PRG	2	(x **1**) PRG	2	= **5** sec		2
Press and release the button (**1 time**);	count 2 movements.	Press and release the button (**1 time**);	count 2 movements.	Hold down both buttons...	release them after **5 seconds**;	count 2 movements.

4		continues →
Select the desired option and program it as follows →	(x ...)	**5 OPTIONS:** **1 press** = sets **MINIMUM sensitivity** **2 presses** = sets **ULTRA sensitivity** **3 presses** = sets **ULTRA sensitivity with short reverse** **4 presses** = sets **ULTRA sensitivity, with reverse** **5 presses** = sets **DISABLED sensitivity**
	Press and release the button **the number of times** indicated in the option you have chosen;	

→ 4		5		end
7 sec.	1/ 2/ 3/ 4/ 5/ 	= 5 sec 		
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.

(*) – **IMPORTANT** - After programming the option, or after the battery has discharged completely, it is **imperative to immediately run 2 complete manoeuvre cycles** (up and down = 1 cycle) to activate the function. During this movement, the motor maps the instantaneous load along its travel and automatically sets the maximum sensitivity available with the awning in question.

GENERAL INFORMATION ABOUT PROCEDURES “A.9”, “A.10”, “A.11”

The “Cruise speed” (procedure A.9), “Acceleration/deceleration of the movement” (procedure A.10) and “Movement duration ” (procedure A.11) functions allow you to completely customise the movement of the awning, allowing you to align multiple awnings of different sizes, with different diameter rollers (among other effects), or make the awning run more quietly.

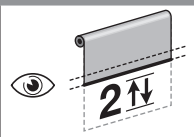
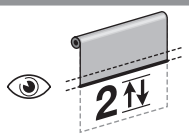
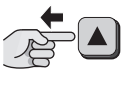
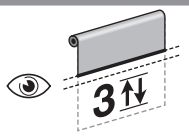
- The “Movement duration (procedure A.11)” and “Cruise speed (procedure A.9)” functions are interdependent: **the last function to be set determines the awning’s actual cruise speed.**
- After setting the **movement time** (procedure A.11), the system automatically adjusts the **cruise speed** (while accounting for **the acceleration/deceleration** values) to ensure that the movement lasts exactly the set time.

  If you then change the **acceleration/deceleration** settings (procedure A.10), or the **limit positions** (procedure A.3), the movement duration **remains** unchanged and the system adjusts the **cruise speed** accordingly.
- When setting the **movement duration** (procedure A.11), if the resulting **cruise speed** is outside the allowed range (see the values given in “Technical specifications”), the motor reports the error by moving 6 times at the end of the procedures (A.3 / A.10), and automatically restores the **cruise speed** to its nominal value.
- After you have set the **cruise speed with procedure A.11**, changing the **limit positions** (procedure A.3) or **acceleration/deceleration** settings (procedure A.10) may set the **cruise speed** outside the allowed range (given in “Technical specifications”). If so, the motor will move 6 times to report the error at the end of the procedures (A.3 / A.10), and will automatically restore the nominal **cruise speed**.

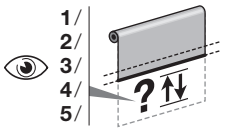
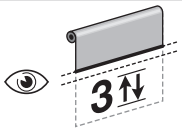
A.9 - Adjusting the awning's cruise speed

NOTES AND WARNINGS

- For the values of the five options (V1=minimum, V2, V3=nominal, V4, V5=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 "V3=nominal speed" setting is the factory setting.

1		2		3 → 4		
(x **1**) PRG		(x **1**) PRG		= **5** sec		
Press and release the button (**1 time**);	count 2 movements.	Press and release the button (**1 time**);	count 2 movements.	Hold down the button;	release it after **5 seconds**;	count 3 movements.

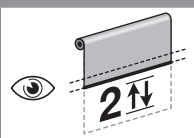
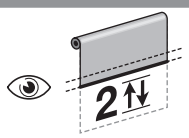
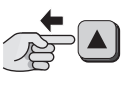
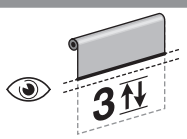
4 continues →	
Select the desired option and program it as follows →	(x ...) **5 OPTIONS:** **1 press** = sets **V1 MINIMUM speed** **2 presses** = sets **V2** **3 presses** = sets **V3 NOMINAL speed** **4 presses** = sets **V4** **5 presses** = sets **V5 MAXIMUM speed**.
	Press and release the button **the number of times** indicated in the option you have chosen;

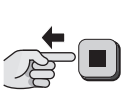
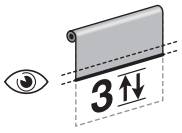
→ 4		5		end	
7 sec.		= **5** sec			
After about 7 seconds, the motor performs a number of **movements** equal to the number of pulses entered.		Hold down the button;	release it after **5 seconds**;	count 3 movements.	

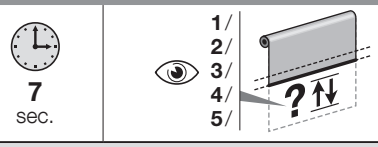
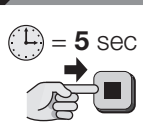
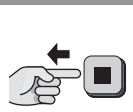
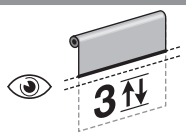
A.10 - Adjusting the acceleration (at the start of the awning movement) and deceleration (towards the end of the movement)

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 the 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 "brief acceleration/deceleration" setting is the factory setting.

1		2		3 → 4		
(x **1**) PRG		(x **1**) PRG		= **5** sec		
Press and release the button (**1 time**);	count 2 movements.	Press and release the button (**1 time**);	count 2 movements.	Hold down the button;	release it after **5 seconds**;	count 3 movements.

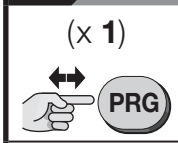
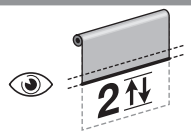
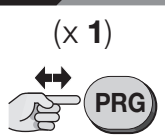
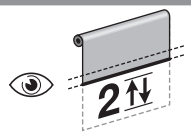
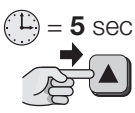
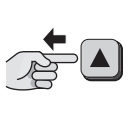
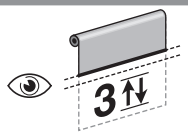
4			5 continues →	
= **5** sec			**Select the desired option and program it as follows →**	(x ...) **5 OPTIONS:** **1 press** = sets **no acceleration/deceleration = 0 rotations** **2 presses** = sets **brief acceleration/deceleration = 0.7 rotations** **3 presses** = sets **nominal acceleration/deceleration = 1.5 rotations** **4 presses** = sets **long acceleration/deceleration = 2 rotations** **5 presses** = sets **maximum acceleration/deceleration = 3 rotations**
Hold down the button;	release it after **5 seconds**;	count 3 movements.		Press and release the button **the number of times** indicated in the option you have chosen;

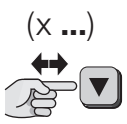
→ 5	6		end
			
After about 7 seconds, the motor performs a number of **movements** equal to the number of pulses entered.	Hold down the button;	release it after **5 seconds**;	count 3 movements.

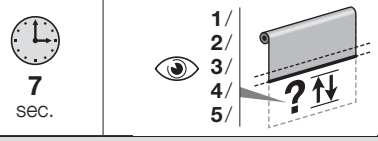
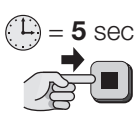
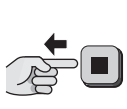
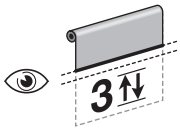
A.11 - Adjusting the total duration of the movement

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.10) 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		2		3		→ 4
						
Press and release the button (1 time);	count 2 movements.	Press and release the button (**1 time**);	count 2 movements.	Hold down the button;	release it after **5 seconds**;	count 3 movements.

4	continues →
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 **the number of times** indicated in the option you have chosen;

→ 4	5		end
			
After about 7 seconds, the motor performs a number of **movements** equal to the number of pulses entered.	Hold down the button;	release it after **5 seconds**;	count 3 movements.

5 WARNINGS FOR NORMAL OPERATION OF THE AUTOMATION

5.1 - Commanding the opening, closing and stoppage of the awning or varying the speed of movement using a transmitter equipped with a "slider" surface

In general, the awning is operated by pressing the button corresponding to the desired movement: ▲ = open; ▼ = close; ■ = stop.

Key to be pressed to send the command	Motor action
▲ (UP)	Positioning at the position relative to the UP limit switch
▼ (DOWN)	Positioning at the position relative to the DOWN limit switch
■ (STOP)	Stops the movement
▲ (UP) + ▼ (DOWN)	Positioning at the partial position H (if, during the installation phase, the "H" position was not programmed, it will assume the factory value corresponding to the point located between the UP and DOWN limit switches)
▲ (UP) + ■ (STOP)	Battery status diagnostics
■ (STOP) + ▼ (DOWN)	Positioning at 25% of the path completed before the UP limit switch is reached (25% of the awning rolled up)
SLIDER (FAST TOUCH)	Change of position
SLIDER + (3 sec)	Increases the motor speed
SLIDER o (3 sec)	Normal motor speed
SLIDER - (3 sec)	Decreases the motor speed

5.2 - Battery charging and status diagnostics

The motor is equipped with a rechargeable battery. To charge the battery, connect a device (power bank, PC, tablet, etc.) to the relevant USB port located on the head of the motor.
To check the status of the battery charge, simultaneously press buttons ▲ and ■ on the transmitter or, with the motor stationary, press the button located on the head.

Flashing GREEN	Battery charged
Flashing AMBER	Battery partially charged
Flashing RED	Flat battery

5.3 - 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.4.

5.4 - 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.

5.5 - 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 ☀) reception 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.

TABLE B		climate condition...	
		over-threshold	under-threshold
With the motor in "AUTOMATIC" mode (enabled with button ☀) ...	... if the user sends the command "**Sun-On**" (button ☀):	• the awning makes 2 movements and remains in the above-threshold position. • the system restarts the timer.	• the awning makes 2 movements and remains in the under-threshold position. • the system restarts the timer.
	... if the user sends the command "**Sun-Off**" (button ☀):	• the awning makes 2 movements.	• the awning makes 2 movements.
With the motor in "MANUAL" mode (enabled with button ☀) ...	... if the user sends the command "**Sun-On**" (with button ☀):	• the awning moves to the above-threshold position. • the system restarts the timer.	• the awning moves to the under-threshold position. • the system restarts the timer.
	... if the user sends the command "**Sun-Off**" (button ☀):	• the awning makes 2 movements.	• the awning makes 2 movements.

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 15 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 obstacles (physical object, person). The motor immediately stops the movement in progress and performs a brief inversion of the motion (if programmed to do so, see procedure A.9).

5.7 - 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.

5.8 - 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	
GREEN LED	**Meaning**
0 flashes	= at least 1 transmitter memorised and 2 limit positions programmed.
1 flash	= at least 1 transmitter memorised and 1 limit position programmed.
2 flashes	= at least 1 transmitter memorised and no limit positions programmed.
3 flashes	= no transmitter memorised (the limit switch status is not shown by the led).
RED LED	**Meaning**
0 flashes	= no error.
steady on	= serious error - **1** (motor damaged - contact technical service).
1 flash	= thermal protection function in progress.
2 flashes	= the last movement was automatically interrupted by The "Obstacle detection" function.
3 flashes	= load too high relative to motor nameplate rating.

4 flashes	= flat battery.
5 flashes	= serious error - **3**.
6 flashes	= serious error - **4** (control circuit temperature too high).
7 flashes	= serious error - **5** (brake malfunction).
8 flashes	= serious error - **6** (brake malfunction).
9 flashes	= serious error - **7**.
10 flashes	= serious error - **8**.
11 flashes	= serious error - **9**.

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

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

What to do if... (troubleshooting guide)

In general, to better identify the problem, refer to **Table C** (and **D**), section 5.8.

- ❑ **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.

Simplified EU declaration of conformity

Hereby, NICE S.p.A., declares that the radio equipment type E EDGE SI 228 LI ION is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address:
https://www.niceforyou.com/en/support.

COMPLIANCE WITH THE FCC RULES (PART 15) AND RSS-210 RULES
This device complies with Industry Canada's licence-exempt RSS-210s, and with Part 15 of the FCC rules of the United States of America. Operation is subject to the following two conditions: (1) this device may not cause interference; (2) this device must accept any interference, including interference that may cause undesired operation of the device. Any changes or modifications made to this device, without the express permission of the manufacturer, may void the user's authority to operate this device.

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