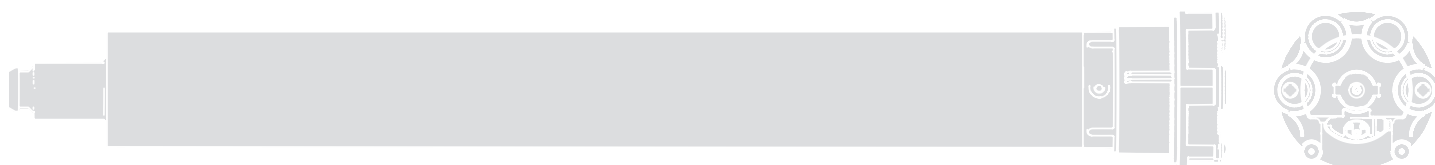


NX SOLAR MZ 2017 SH BD



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!

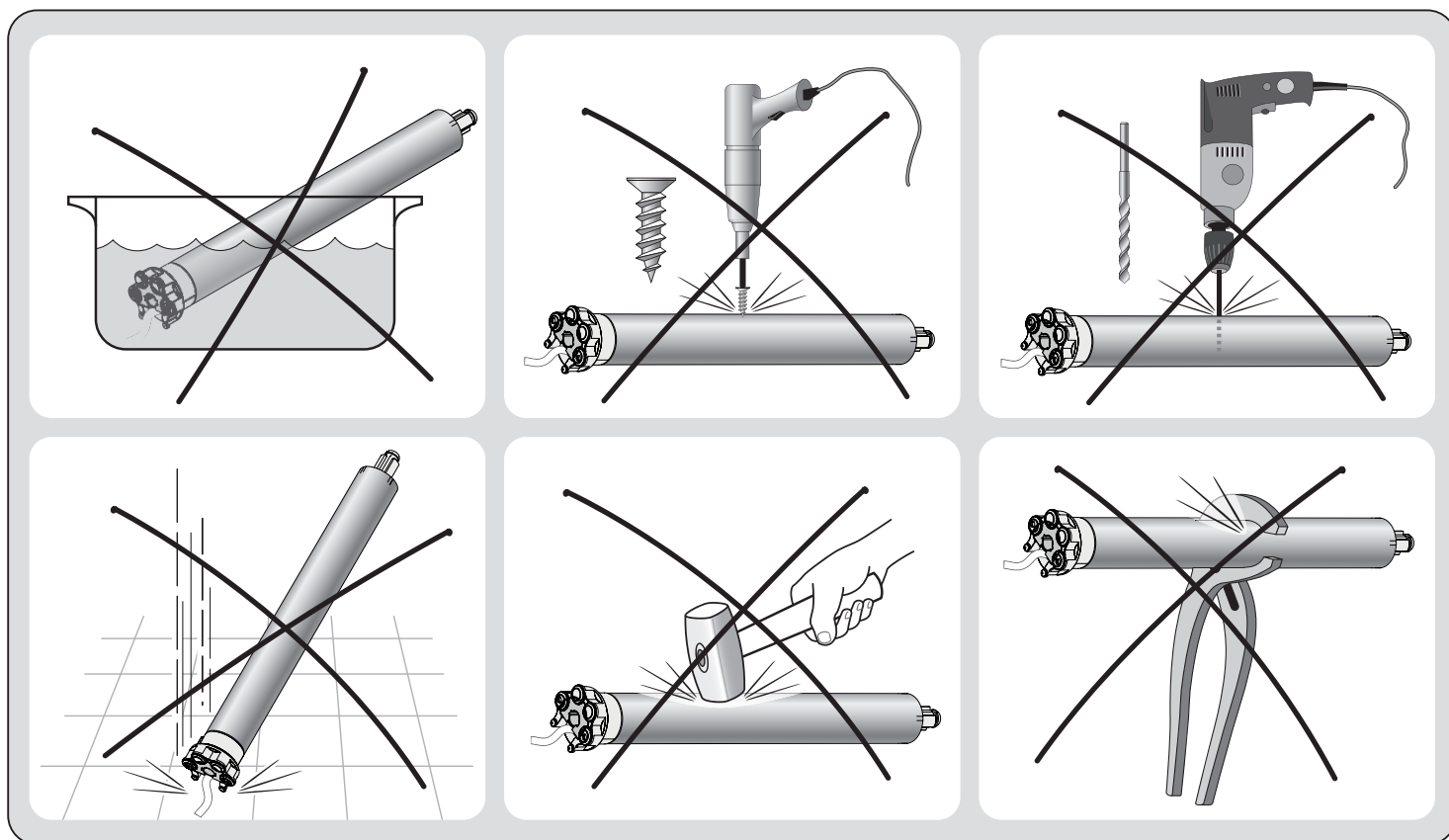
- Before proceeding with the installation of the product, check that all the materials are in good working order and suited to the intended applications
- This product is not intended to be used by persons (including children) whose physical, sensory or mental capacities are reduced, or who lack the 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

- 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 **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 roller blinds and keep away from them until they have lowered fully
- 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 from which they can be accessed



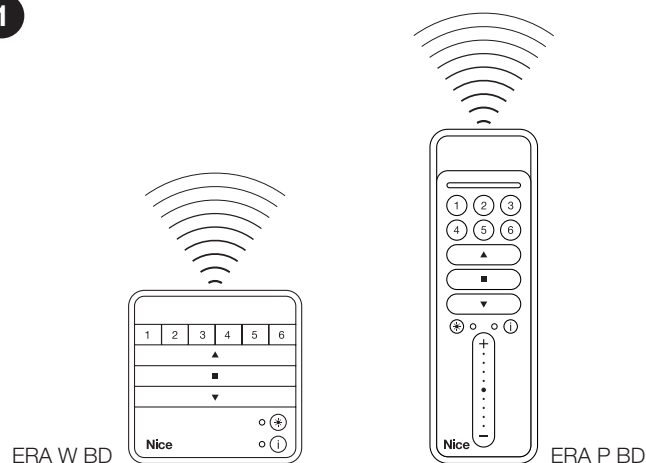
1 PRODUCT DESCRIPTION AND INTENDED USE

This product is a tubular motor for automating of roller blind. **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 battery pack (consult the motor's data on the rating plate);
- 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;
- can be configured for both ONE-WAY and TWO-WAY transmission. Nice's new two-way radio protocol enables communication in both directions between the transmitter and receiver, as does the mesh network which can connect to any Nice automation within radio range. The transmitter signal confirms that the control has been received correctly and allows the position of the automation to be controlled at all times. Wireless technology makes even initial programming simple and user-friendly.
- it is compatible with all Nice control electronics using the NRC radio system (transmitters and climate sensors, the latter can only be used if the motor is configured for operation in ONE-WAY mode);
- it can be controlled with a radio transmitter or cabled wall-mounted button panel (see **fig. 1**);
- it can move the awnings, blind or shutter up or down; stop it at the upper limit switch, the lower limit switch or various intermediate positions (up to 30 if the motor is configured for operating in ONE-WAY mode or up to 6 if it is configured for operating in TWO-WAY mode);
- is equipped with a "thermal protection device" which, in case of extended use, protect the motor against excessive overheating by limiting the motor speed to the minimum speed; in this way, the continuous usage time increases, allowing extended use (until the thermal protection device intervenes);
- it is available in several versions, each with a certain motor torque (power).

1

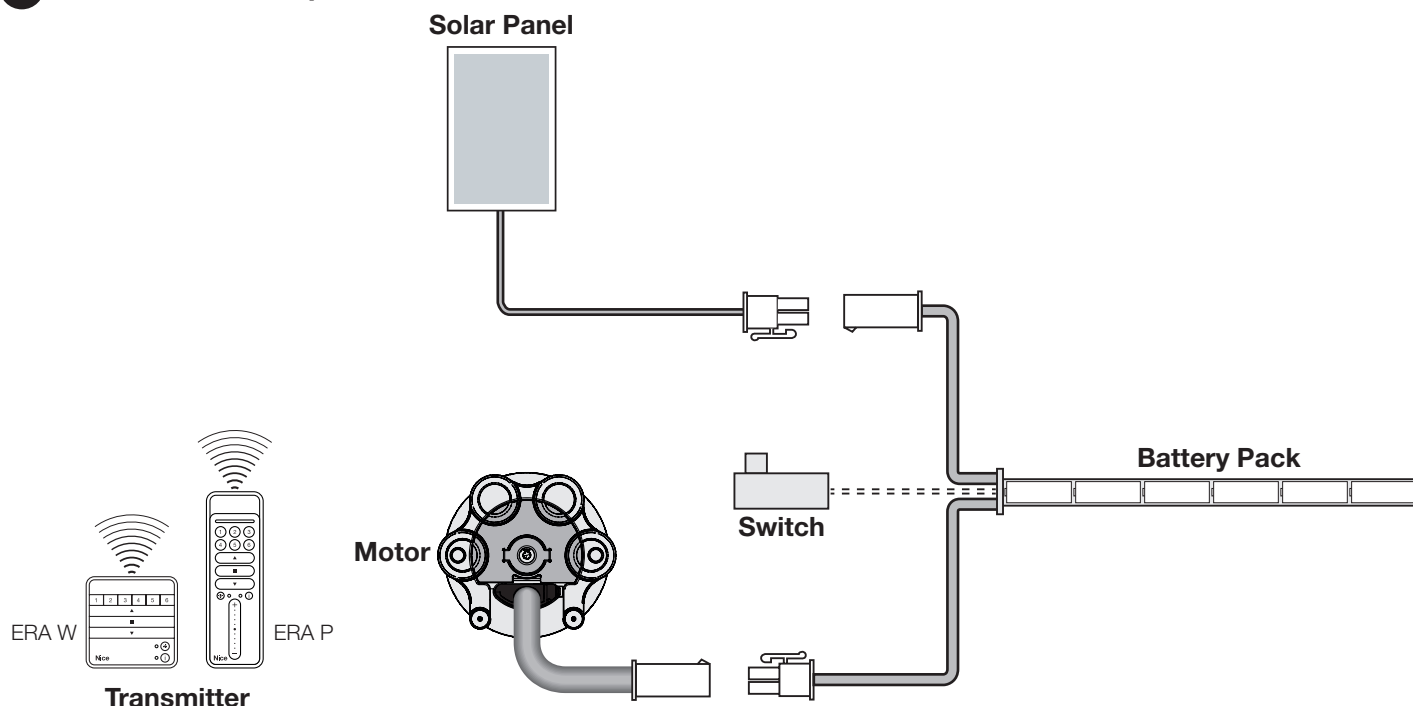


2 INSTALLATION OF THE MOTOR AND THE ACCESSORIES

2.1 - Preliminary checks before installation and limitations on use

- Check the condition of the product right after unpacking it.
- This product is available in several version, each with a specific motor torque. Each version is designed to drive roller shutters of a certain size and weight. Therefore, before installation make sure the product's motor torque, rotation speed and operation time are suitable for automating your roller shutter (see the "Guide to Selection" section, in the Nice Product Catalogue – www.niceforyou.com). In particular, **do not install the product if its motor torque is lower than that needed to move your roller shutter.**
- Check the diameter of the winding roller. This must be chosen according to the motor torque, as follows:
 - for motors that are size "M" ($\varnothing = 45$ mm) and have a torque of up to 35 Nm (included, the minimum inside diameter of the winding roller must be 52 mm).
- Before automating a roller shutter, check that there is enough free space in front of it for it to be completely opened.
- If the motor is to be installed outdoors, adequate protection against atmospheric agents must be guaranteed.

2 Connection example



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**. Moreover, consult the Nice product catalogue or go to www.niceforyou.com to choose the crown of the limit switch (**fig. 3-a**), the drag wheel (**fig. 3-b**), and the motor fastening bracket (**fig. 4-f**).

2.3 - Installation of accessories (optional)

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 product catalogue, also viewable at 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).

WARNING: if the motor is new (and does not have any remote control memorised), at the start-up run one of the memorisation procedures for the first transmitter described at points B.1 motor configured for ONE-WAY communication, A.1 motor configured for TWO-WAY communication, or C.1 motor configured for ONE-WAY communication and OLD generation transmitter lacking the PRG and ESC buttons. In this way, the motor will be configured in the TWO-WAY mode (and thus will be able to accept all two-way transmitters) or ONE-WAY mode (and thus will be able to interact only with one-way transmitters), depending on which transmitter is memorised first.

4.2 - Groups of programming and adjustment procedures

There are 4 groups of programming and adjustment procedures:

Group A – for motors configured for TWO-WAY communications.



These procedures apply only when the motor is configured for TWO-WAY communications.

Group B – for motors configured for ONE-WAY communications.



These procedures apply only when the motor is configured for ONE-WAY communications.

Group C – for motors configured for ONE-WAY communication and using a transmitter lacking the **PRG** and **ESC** buttons.



These procedures only apply when the motor is configured for ONE-WAY communication and a transmitter is used that has the ▲ (UP), ■ (STOP) and ▼ (DOWN) buttons, but lacks the **PRG** and **ESC** buttons.

Group D – QUICK programming procedures.

For information on these procedures, refer to the quick guide supplied with the product and available in digital format on the website www.niceforyou.com.

3 ELECTRICAL CONNECTIONS AND FIRST POWER UP

The electrical connections must be made only after installing the motor and compatible accessories required.

The motor's power cable is already pre-wired and is fitted with a faston connector for easily connecting the battery pack (**Fig. 2**).

3.1 - Connecting the motor to the battery pack

Use the dedicated faston connector (Fig. 2) to connect the motor to the battery pack, while paying attention to the following **warnings**:

- improper connection can cause breakdowns and hazardous situations;
- scrupulously respect the connections indicated in this manual.

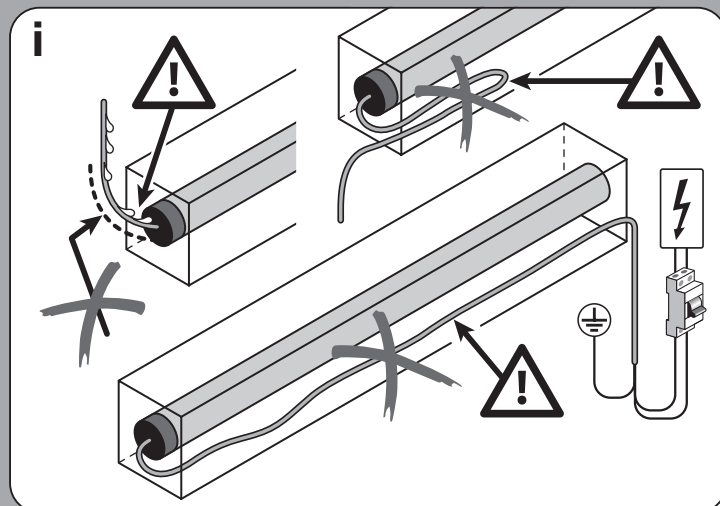
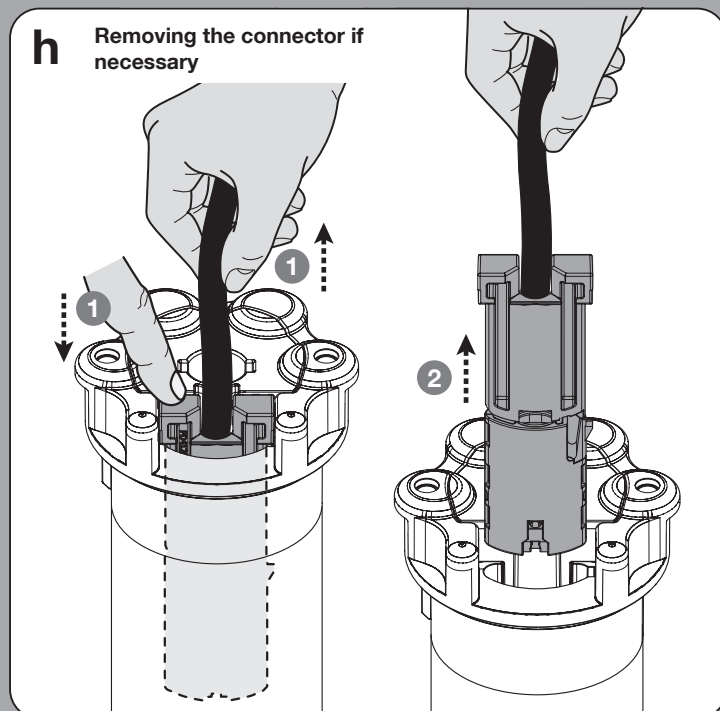
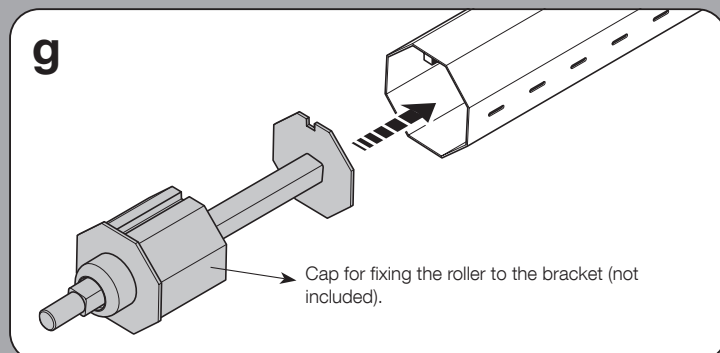
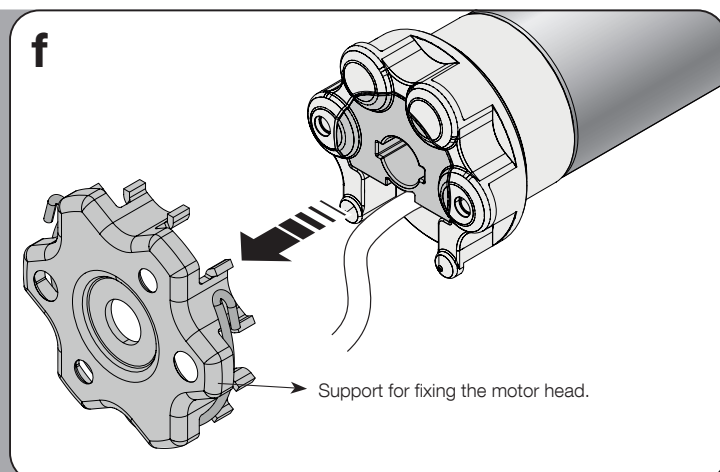
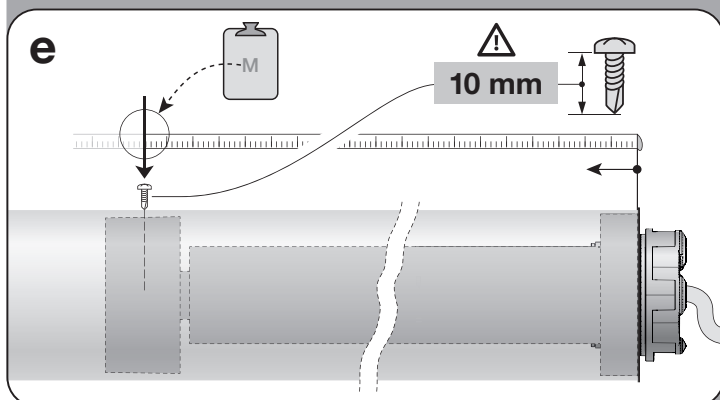
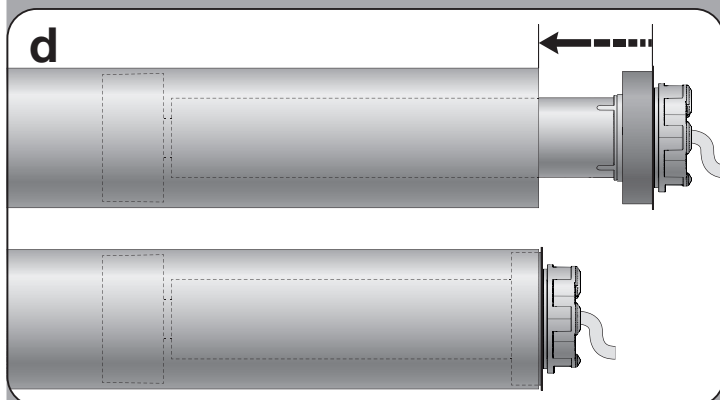
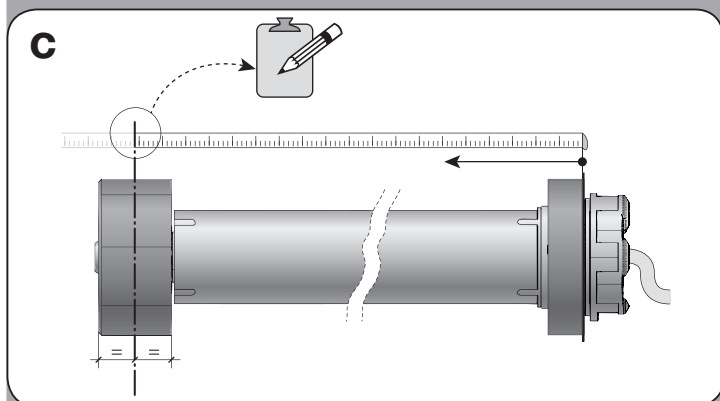
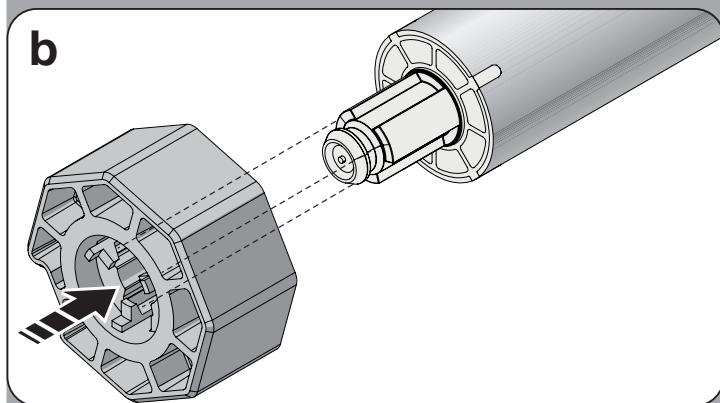
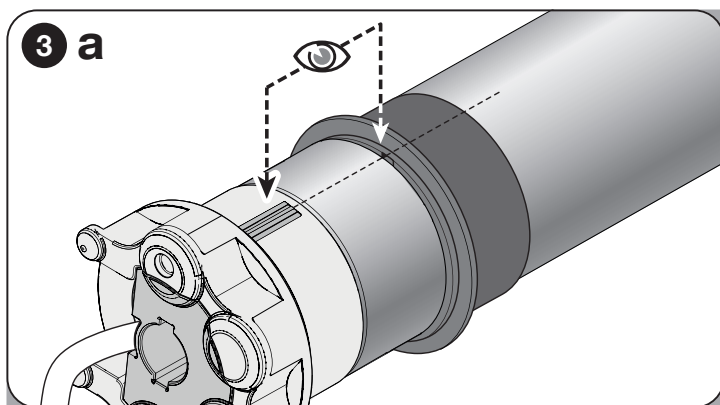
3.2 - Connection of accessories to motor

- **Accessories can be connected by a radio** (portable transmitters and climatic sensor models with radio data transmission): memorise these accessories in the motor during the programming phases; refer to the procedures given in this manual and those given in the manuals supplied with the devices.

4 PROGRAMMING AND ADJUSTMENTS

4.1 - TWO-WAY and ONE-WAY operation.

The motor can operate with both TWO-WAY and ONE-WAY transmission. The transmission mode is determined by the first transmitter paired with the motor (ONE-WAY or TWO-WAY).



4.3 - Transmitter to be used for programming procedures

- Procedures that can only be completed with a Nice “ERA P” or “ERA W” transmitter having the PRG and ESC keys, or with transmitters equipped with a STOP key.
- All the programming procedures must be completed by selecting a single channel on the transmitter.
- The programming procedure must be performed exclusively with a transmitter memorised in “Mode I” (see procedure B.1 - A.1 - D.1).
- If the transmitter used for programming controls multiple automation units, you must select the “unit” corresponding to the automation you are programming before sending a command during a procedure.

4.3.1 - Report messages sent by the motor

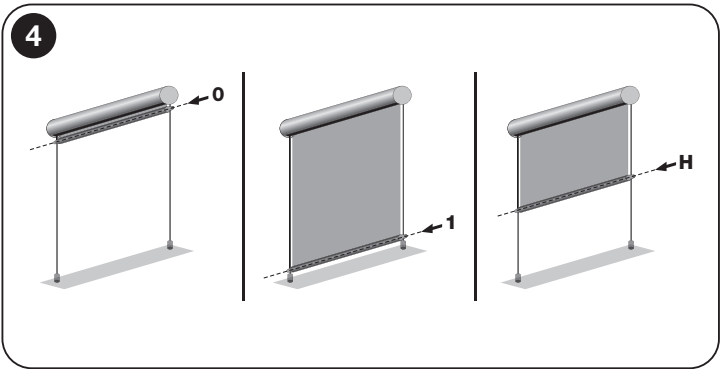
The motor repeats the report message on the status of the installation by performing some brief movements when a movement is commanded. To understand the significance of these movements read **Table A**.

TABLE A – Movement signals	
No. of MOVEMENTS	Meaning
0 movements (START & STOP)	= 2 limit switches programmed
1 movement (START & STOP)	= 1 limit switch programmed
2 movements (START & STOP)	= no limit switch programmed

4.4 - Positions in which the roller shutter stops automatically

The electronic system that controls the roller shutter’s movement at all times can automatically stop the movement when the roller shutter reaches a certain position programmed by the installer. The programmable positions are (fig. 4):

- position “0” = UPPER (fully wound roller shutter);
- position “1” = LOWER (fully unwound roller shutter);
- position “H” = INTERMEDIATE (partially open roller shutter).



When the limit switches are not programmed yet, the roller shutter can be moved only in the “hold-to-run” mode, i.e. keeping the control key pressed for the desired duration of the manoeuvre; the movement stops as soon as the user releases the key. However, after programming the limit switches, briefly pressing the appropriate key will start the roller shutter and it will stop moving automatically as soon as the roller shutter reaches the required position.

To adjust the distances “0” and “1” various procedures are possible; to choose the appropriate one, take into account the supporting structure of your roller shutter (see the summary in the table).

WARNING! – If you want to again adjust again the height of the limit switches adjusted previously, consider the following:

- If you would like to adjust them with an alternative procedure different from the one used previously, you must **FIRST** delete the heights by following procedure B.16, A.15 or C.4.
- If you wish to adjust the same procedure used previously, you need not delete them.

The programming of the limit switches simultaneously combines the two directions of rotation of the motor to the respective shutter raising key (▲) and shutter lowering key (▼) of the control device (initially, when the limit switches are not programmed yet, the combination is random and it can happen that when pressing the ▲ key, the roller shutter moves down instead of up, or vice versa).

4.5 - General warnings

- The limit switch must be adjusted after installing the motor in the roller shutter 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 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 $\updownarrow$.

4.6 - 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 the motor’s memory does not contain any transmitter, to memorise the **FIRST transmitter**, perform the “Communication mode configuration procedure (ONE-WAY or TWO-WAY)” and subsequently use only one of the following procedures: **B.1** (motor configured as ONE-WAY); **A.1** (motor configured as TWO-WAY); **C.1** (motor configured as ONE-WAY and **OLD** generation transmitter lacking the PRG and ESC keys). If instead one or more transmitters have already been memorised, to memorise **SUPPLEMENTARY transmitters** use one of following procedures only: **B.8** (motor configured as ONE-WAY); **A.8** (motor configured as TWO-WAY); **C.2** (motor configured as ONE-WAY and **OLD** generation transmitter lacking the PRG and ESC keys).

4.6.1 - 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”)

They are procedure B.1 - B.8.1 (motor configured as ONE-WAY); A.1 - A.8 (motor configured as TWO-WAY); C.1 - C.2.1 (motor configured as ONE-WAY and OLD generation transmitter lacking the PRG and ESC keys). 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”), only applicable when the motor is configured for ONE-WAY communications

These are procedures B.8.2, A.8 and C.2.2. 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.

4.6.2 - Number of transmitters that can be memorised (only applicable when the motor is configured for ONE-WAY communications)

You can memorise **30 transmitters**, if these are all memorised in “Mode I”, or you can memorise **30 single commands (keys)** if they are all memorised in “Mode II”. The two modes can coexist up to a maximum limit of 30 memorised units.

4.6.3 - Number of transmitters that can be memorised (only applicable when the motor is configured for TWO-WAY communications)

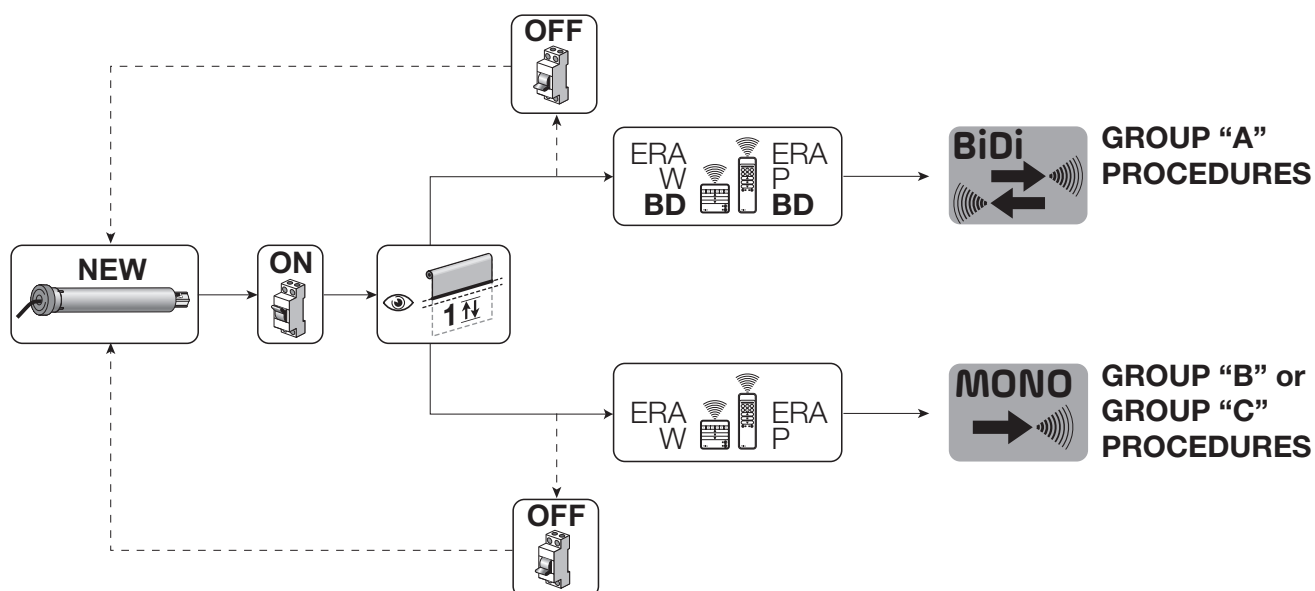
You can memorise **30 transmitters**.

GENERAL WARNINGS RELATING TO THE PROCEDURES

- Before starting any programming, move the roller shutter to an intermediate position, away from the Up and Down limit switches.
- 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).
- To change the motor's configuration (from ONE-WAY to TWO-WAY and inversely), it is necessary to perform the "TOTAL deletion of the memory" (B.16 motor configured for ONE-WAY communication, A.15 motor configured for TWO-WAY communication or C.4 motor configured for ONE-WAY communication and **OLD** generation transmitter, lacking the **PRG** and **ESC** buttons) and then switch the motor off and on again.

WARNING: if the motor is new (and does not have any remote control memorised), at the start-up run one of the memorisation procedures for the first transmitter described at points B.1 motor configured for ONE-WAY communication, A.1 motor configured for TWO-WAY communication, or C.1 motor configured for ONE-WAY communication and OLD generation transmitter lacking the PRG and ESC buttons.

In this way, the motor will be configured in the **TWO-WAY** mode (and thus will be able to accept all two-way transmitters) or **ONE-WAY** mode (and thus will be able to interact only with one-way transmitters), depending on which transmitter is memorised first.



— GROUP “A” PROCEDURES —

for motors configured for TWO-WAY communications

Procedures which can only be completed with a Nice transmitter with the ▲, ■, ▼, PRG, ESC keys (eg. “ERA P BD”, “ERA W BD”)

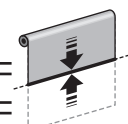
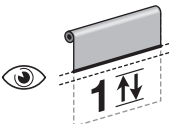
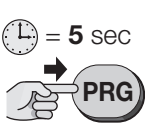
GENERAL WARNINGS RELATING TO THE PROCEDURES

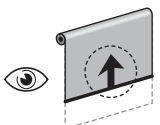
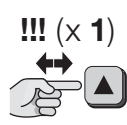
- Before starting any programming, move the roller shutter to an intermediate position, away from the Up and Down limit switches.
- All the programming procedures must be completed by selecting a single channel on the transmitter.
- If the programming transmitter controls **multiple groups of screen 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 roller shutter can only be commanded in hold-to-run mode - i.e. you must hold the button down until the roller shutter 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 roller shutter can be controlled by simply pressing and releasing the buttons. Doing so starts the movement, which is stopped automatically by the system when the roller shutter 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.8).
- The “deletion carried out with a non-memorised transmitter” procedure does not appear in this section as, for motors configured in TWO-WAY communication mode, it is always possible to access it by completing the “Memorising the FIRST TRANSMITTER A.1” procedure.
- To change the motor’s configuration (from ONE-WAY to TWO-WAY and inversely), it is necessary to perform the “TOTAL deletion of the memory” procedure (B.16 motor configured for ONE-WAY communication, (A.15 motor configured for TWO-WAY communication or C.4 motor configured for ONE-WAY communication and OLD generation transmitter, lacking the PRG and ESC buttons) and then switch the motor off and on again.

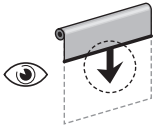
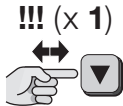
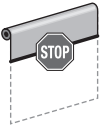
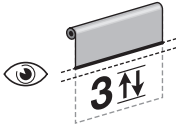
A A.1 - Memorising the FIRST TRANSMITTER (in “Mode I”)

NOTES AND WARNINGS

- To memorise further transmitters, use the procedure described under section B.8 (motor configured for ONE-WAY communication), A.8 (motor configured for TWO-WAY communication) or C.2 (motor configured for ONE-WAY communication and OLD generation transmitter lacking the PRG and ESC keys).
- 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 roller shutter, 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	2	3	→ 4
			
Move the roller shutter to a half-way position.	Switch on mains power,	count 1 movement.	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 roller shutter 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 roller shutter will resume its up and down movements, each of random duration.

5		end	
			
Observe the same roller shutter 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.

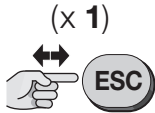
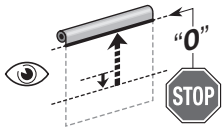
A A.2 - Temporarily deactivating (and reactivating) motors you do not wish to program



NOTES AND WARNINGS

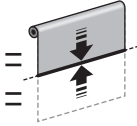
- This procedure temporarily deactivates (for 5 minutes) only motors whose up and down limit switches have already been programmed.

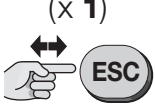
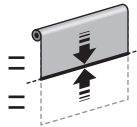
A.2.1 - To temporarily deactivate motors you do not wish to program

1			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.	
Press and release the button (1 time) ;	press and release the button;	you will see a brief down movement and a movement which stops the roller shutter 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

È possibile sbloccare i motori in due modi:

1		end
option - A	After 5 minutes the locked out motors are <u>automatically reactivated</u> by the system.	
	Wait for 5 minutes ...	... the system will then move the roller shutter to the mid position.

1				end
option - B	During the 5 minute period the locked out motors can be <u>reactivated at any time by the user</u> .			
	During the 5 minutes , at any time...	Press and release the button (1 time) ;	press and release the button;	... the system will then move the roller shutter 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 roller shutters 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.8).
- After the limit positions have been programmed, the roller shutter can be controlled by simply pressing the appropriate buttons on the control unit. The roller shutter will move between the positions set with procedures A.3.1 and A.3.2.
- If the limit switches have not been programmed yet, the roller shutter's direction of movement might not match the pressed button.

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

1	2	3	continues →		
 Press and release the button (1 time);	 count 2 movements.	 Hold down the button and release it after 5 seconds;	 release it after 5 seconds;	 count 2 movements.	 Command an UP movement →
 ... release the button as soon as the roller shutter reaches position "0" (UP limit switch).	 Regolare con precisione la quota del finecorsa "0" →	 Hold down the button and release it after 5 seconds;	 release it after 5 seconds;	 count 3 movements.	 end

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

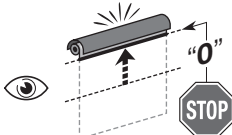
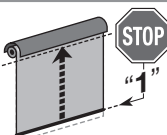
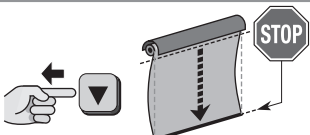
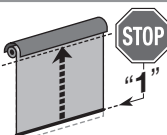
1	2	3	continues →		
 Press and release the button (1 time);	 count 2 movements.	 Hold down the button and release it after 5 seconds;	 release it after 5 seconds;	 count 2 movements.	 Command an DOWN movement →
 ... release the button as soon as the roller shutter reaches position "1" (DOWN limit switch).	 Regolare con precisione la quota del finecorsa "1" →	 Hold down the button and release it after 5 seconds;	 release it after 5 seconds;	 count 3 movements.	 end

A A.4 - AUTOMATIC Programming of the UP ("0") and DOWN ("1") limit switches



NOTES AND WARNINGS

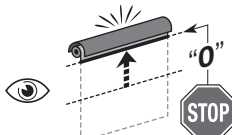
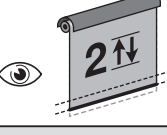
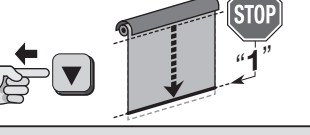
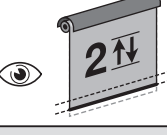
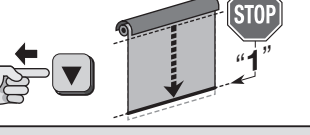
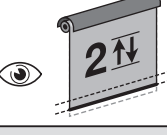
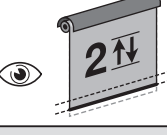
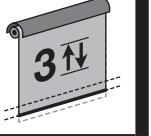
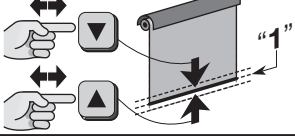
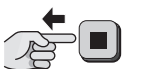
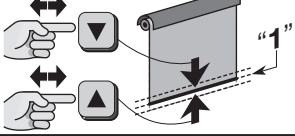
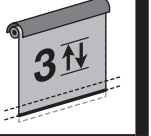
- Apply this procedure only if the roller blind has the following characteristics:
 - mechanical stop in the Upper limit switch "0";
 - a terminal bar heavy enough to make the motor understand that the bar itself rests on the ground.
- Programme the UP limit switch (0) FIRST.
- The down limit switch (1) is NOT memorised if it is within 120° with respect to the UP limit switch (0).
- If the limit switches have not been programmed yet, the roller shutter's direction of movement might not match the pressed button.
- After programming the limit switches, the ▲ key will command the Up manoeuvre and the ▼ switch will command the Down manoeuvre. The movement of the roller shutter will be limited by limit switches (Upper "0" and Lower "1") programmed by the installer.

1		2	
Command an UP movement → 		Command an DOWN movement → 	
Hold down the button ▲ (or ▼) and wait ...		release the button.	
			
... lift the roller shutter up to the upper stop. The motor will disengage automatically once the stop is reached.		... it re-activates during the upward movement and stops as soon as it feels the blind is taut again.	
→ 2		end	
			
... lower the roller shutter down to the lower stop. The motor disengages when it no longer feels that the blind is taut ...			

A A.5 - AUTOMATIC programming of the UPPER limit switch ("0") and MANUAL programming of the LOWER limit switch ("1")

NOTES AND WARNINGS

- Use this procedure solely for roller shutters with mechanical Up "0" limit switch stop.
- Programme the UP limit switch (0) FIRST.
- If, previously, the limit switches were programmed with the "Manual (A.3)" programming, to complete this procedure before proceeding with the "Total or partial deletion of the memory [B.16.1 (motor configured for ONE-WAY communication), A.15.1 (motor configured for TWO-WAY communication) or C.4.1 (motor configured for ONE-WAY communication and OLD generation transmitter lacking the PRG and ESC keys) option 'A' or 'D']".
- If the limit switches have not been programmed yet, the roller shutter's direction of movement might not match the pressed button.
- After the limit positions have been programmed, the roller shutter can be controlled by simply pressing the appropriate buttons on the control unit. The Up movement will be limited when the roller shutter 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 5.4). Conversely, the Down movement will be limited by the Lower limit switch "1" (limit switch set by the installer at a desired point).

1		2	
Command an UP movement → 		Command an DOWN movement → 	
Hold down the button ▲ (or ▼) and wait ...		release the button.	
			
... wait for the roller shutter to be stopped when it collides with the box (= UP limit switch = position "0").		Hold down the button ▼ (or ▲) and wait ...	
→ 2		→ 5	
			
... release the button as soon as the roller shutter reaches position "1" (DOWN limit switch).		release it after 5 seconds;	
			
3 (x 1) 		4 	
Press and release the button (1 time);		Hold down the button and	
			
count 2 movements.		count 2 movements.	
5 Finely adjusting the position of limit switch "1" →		6	
			
Press the buttons until you reach the desired position.		release it after 5 seconds;	
			
Hold down the button and		count 3 movements.	
end			

A A.6 - MANUAL programming of the UPPER limit switch ("0") and AUTOMATIC programming of the LOWER limit switch ("1")



NOTES AND WARNINGS

- Use this procedure only for roller blinds equipped with a terminal bar that's heavy enough to make the blind taut and that must rest on the floor.
- Programme the UP limit switch (0) FIRST.
- If, previously, the limit switches were programmed with the "Manual (A.3)" programming, to complete this procedure before proceeding with the "Total or partial deletion of the memory [B.16.1 (motor configured for ONE-WAY communication), A.15.1 (motor configured for TWO-WAY communication) or C.4.1 (motor configured for ONE-WAY communication and OLD generation transmitter lacking the PRG and ESC keys) option 'A' or 'D']".
- If the limit switches have not been programmed yet, the roller shutter's direction of movement might not match the pressed button.
- After the limit positions have been programmed, the roller blind can be controlled by simply pressing the appropriate buttons on the control unit. The upward movement will be limited by the Upper limit switch "0" (limit switch set by the installer at a desired point). Conversely, the downward movement will be limited by the impact of the terminal bar with the floor – the Lower limit switch "1". With each impact, the height of this limit switch will be automatically updated by the "Automatic limit switch update" function (paragraph 5.4).

1		2 → 3	
Command an UP movement →		(x 1) 	
Hold down the button ▲ (or ▼) and wait ...	... release the button as soon as the roller shutter reaches position "0" (UP limit switch).	Press and release the button (1 time);	count 2 movements.

3		4 → 5	
			Finely adjusting the position of limit switch "0" →
Hold down the button and	release it after 5 seconds ;	count 2 movements.	Press the buttons until you reach the desired position.

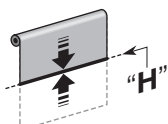
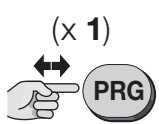
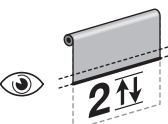
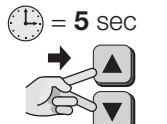
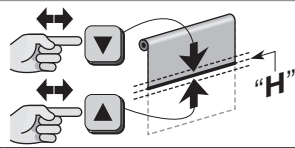
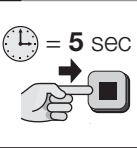
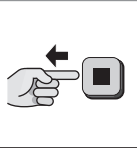
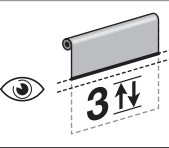
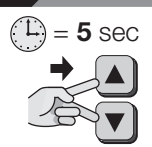
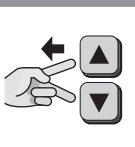
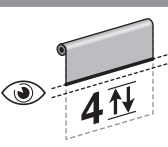
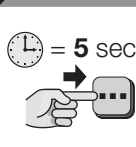
5		6	
Command an DOWN movement →			
Hold down the button ▼ (or ▲) and wait ...	... lower the roller shutter down to the lower stop. The motor disengages when it no longer feels that the blind is taut ...	... it re-activates during the upward movement and stops as soon as it feels the blind is taut again.	

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

A A.7 - Programming an INTERMEDIATE POSITION (position "H")

NOTES AND WARNINGS

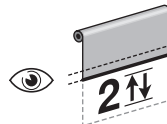
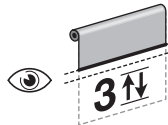
- This procedure memorises an intermediate position (position "H") between the Up ("0") and Down ("1") limit switch positions. When the automation is being used, after giving the **intermediate position** command, the system will automatically stop the roller shutter at the programmed "H" position.
- Up to 30 "H" positions can be memorised if the motor is configured to operate in ONE-WAY mode, or up to 6 "H" positions if the motor is configured to operate in TWO-WAY mode, in any desired position, provided that they are within the space delimited by the two limit switches. 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 roller shutter to the desired "H" position.	Press and release the button (1 time);	count 2 movements.	release them after 5 seconds;
4	5	6	...
			
Precisely adjusting the "H" position → Press the buttons until you reach the desired position.	Hold down the button and	release it after 5 seconds;	count 3 movements.
6	end	6	end
			
option - A Hold down both buttons...	release them after 5 seconds;	count 4 movements.	option - B On ANOTHER transmitter, which has NOT been memorised: hold down <u>any button</u> you wish;
			release it after 5 seconds;
			count 4 movements.

A A.8 - Memorising ANOTHER TRANSMITTER (second, third, etc.)

NOTES AND WARNINGS

- The motor configured to operate in TWO-WAY mode can memorise up to 16 transmitters.
- To run procedures A.8 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).
- Procedures A.8 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. 4.6.1).

1	2	→ 3
		
On the OLD transmitter: Press and release the button (1 time);	On the NEW transmitter: hold down the button and	count 2 movements;
3	4	end
		
On the OLD transmitter: Press and release the button (1 time);	On the NEW transmitter: Press and release the button (1 time);	count 3 movements (= transmitter memorised).

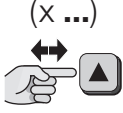
A A.9 - "RDC" Function: adjustment of the motor traction force when closing

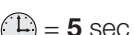


NOTES AND WARNINGS

- This function prevents the excessive traction of the canvas at the end of the closing manoeuvre. During the final phase of this manoeuvre, the function automatically reduces the motor traction torque, based on the factory setting or the one adjusted by the installer with the following procedure.
- Warning!** – This function is active with the factory setting but is not applicable if the limit switches are programmed with the manual procedure A.3.

1	2	3	→ 4
Hold down the button and	count 2 movements.	Hold down the button and	count 2 movements.
		Hold down both buttons...	release them after 5 seconds;

4	continues →
Select the desired option and program it as follows →	 5 OPTIONS: x 1 = standard sensitivity (*) x 2 = minimum sensitivity x 3 = medium sensitivity x 4 = function deactivated x 5 = function deactivated
	Press and release the button the number of times indicated in the option you have chosen;

→ 4		5			fine
					
After about 10 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.

(*) = Factory setting.

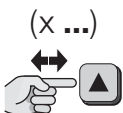
A A.10 - Behaviour of the motor in the presence of an obstacle

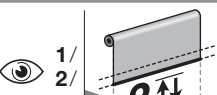
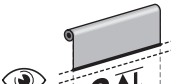


NOTES AND WARNINGS

- This procedure can be used to modify the behaviour of the roller shutter when the motor detects an obstacle.
- There are two types of behaviours: **a)** the motor stops its movement and completes a brief reversal to free the obstacle (Factory setting); **b)** the motor will automatically verify whether the obstacle is a physical one or simply wind. In the event of a physical object, the motor will make a brief inversion, whereas in case of wind the motor will return to the upper limit switch.

1	2	3	→ 4
Hold down the button and	count 2 movements.	Hold down the button and	count 2 movements.
		Hold down both buttons...	release them after 5 seconds;

4	continues →
Select the desired option and program it as follows →	 2 OPTIONS: 1 press = Behaviour 1 (Factory setting), the motor stops moving and performs a brief reversal to free the obstacle 2 presses = Behaviour 2 wind protection
	Press and release the button the number of times indicated in the option you have chosen;

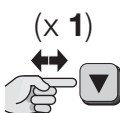
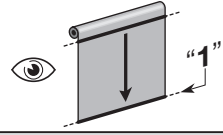
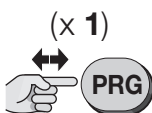
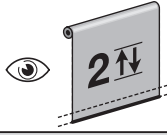
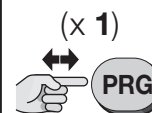
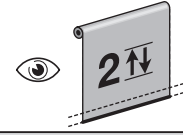
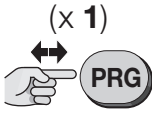
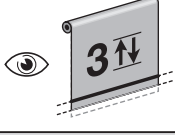
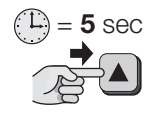
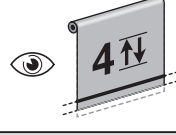
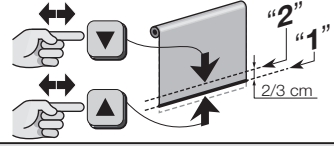
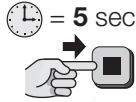
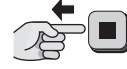
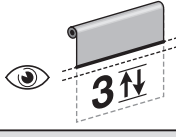
→ 4		5			end
 10 sec.					
After about 10 seconds, the motor performs a number of movements equal to the number of pulses entered.		Hold down the button and		release it after 5 seconds :	count 3 movements.

A A.11 - "FRT" Function: automatic tensioning of the canvas when opening awnings that are not fitted with a mechanism to lock the awning when opening

- **Warning!** – The FRT function cannot be activated if the FTC or FTA function has already been activated.
- This function is useful to eliminate the unsightly depression of the canvas that may form when the awning is open. It is activated by programming position "2" near the limit switch "1". The function may only be used in awnings that DO NOT have any mechanism to lock the canvas in the open position. When the function is activated, when using the automation, the awning lowers to the lower limit switch "1" and then automatically raises to position "2" (the one programmed with the following procedure), stretching the canvas. The function also acts when a partial opening/closing manoeuvre is commanded. In these cases the awning stops in correspondence to the height "H" programmed and then rises automatically until the canvas is taut.

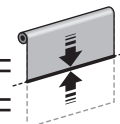
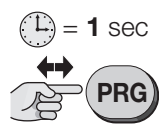
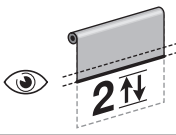
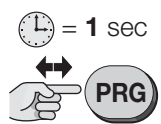
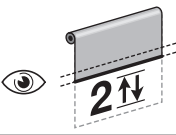
NOTES AND WARNINGS

- The "FRT" function may be programmed exclusively after having programmed the limit switch heights "0" and "1".
- Position "2" must be a point between limit switch "1" and limit switch "0".

1		2		3		→ 4
						
Hold down the button.		Hold down the button and		count 2 movements.		count 2 movements.
4		5		6		→ 7
						
Hold down the button and		count 3 movements.		Hold down the button and		release it after 5 seconds;
				count 4 movements.		
7						end
						
Hold down the button and		release it after 5 seconds;		count 3 movements.		

A A.12 - "FTC" Function: tensioning the canvas when open awnings fitted with an automatic hooking and unhooking mechanism of the awning when opening

- **Warning!** – The FTC function cannot be activated if the FRT or FTA function has already been activated.
If the LOWER limit switch has been set to AUTOMATIC, the FTC function cannot be activated.
- This function is useful to eliminate the unsightly depression of the canvas that may form when the awning is open. The function may used exclusively in awnings which allow the locking of the canvas when open, through an automatic hooking/unhooking mechanism located in the limit switch "1" (e.g. stationary canopy, roller awnings with hooks, etc.). Normally this type of mechanism features 3 characteristic positions, located near each other: the **"mechanical stop"** where the canvas is hooked, **position "1"** (located a few centimetres below the mechanical stop) which allows the hooking to the canvas, **position "S"** (located a few centimetres below position "1") which allows the unhooking of the canvas.
- **How to program position "1"**: this position must coincide with the height of limit switch "1". Therefore, if limit switches "0" and "1" are already programmed it will be necessary to delete them with procedure 5.16 and adjust them again with the manual procedure (paragraph 5.6, if the awning does not have a box), or with the semiautomatic procedure (paragraph 5.7, if the awning has a box).
- **How to program position "S"**: this position is programmed with the following procedure (**note** – programming the "S" position also activates the FTC function at the same time).

1		2		3		→ 4
						
Move the awning to a half-way position.		Hold down the button and		count 2 movements.		release the button.
				Hold down the button and		count 2 movements.
				release the button.		

4			5			→ 5
Hold down the button and	count 3 movements.	release the button.	Hold down the button and	count 4 movements.	release the button.	

6			7			end
Hold down the button ...	until the awning reaches the suitable "S" position (in addition to point "1");	press the buttons until you reach the desired position.	Hold down the button and	release it after 5 seconds;	count 3 movements.	

A A.13 - "FTA" Function: tensioning the canvas when open awnings fitted with a manual hooking and unhooking mechanism of the awning when opening

• **Warning!** – The FTA function cannot be activated if the FRT or FTC function has already been activated.
If the LOWER limit switch has been set to AUTOMATIC, the FTA function cannot be activated.

• This function is useful to eliminate the unsightly depression of the canvas that may form when the awning is open. The function may be used exclusively in awnings that let you lock the canvas in the open position through a mechanism manually attachable and detachable by the user (e.g. the bolts in stationary canopies, roller awnings with hooks, fixed arm awnings, etc). With the lock mechanism inserted and this function activated, during a closing manoeuvre the motor stops the awning in correspondence to the lock mechanism, leaving the canvas taut. To unlock the awning, first send a short Down command to manually remove the lock and finally send an UP command to the awning.

NOTES AND WARNINGS

• The "FTA" function may be programmed exclusively after having programmed the limit switch heights "0" and "1".

1		2		3		→ 4
Move the awning to a half-way position.	Hold down the button and	count 2 movements.	release the button.	Hold down the button and	count 2 movements.	release the button.

4			5			→ 6
Hold down the button and	count 3 movements.	release the button.	Hold down the buttons and	count 4 movements.	release the buttons.	

6 ...		6		end
Select one of the following options and execute it: • option A – To activate the "FTA" function. • option B – To deactivate the "FTA" function.		option – A		
		Hold down the button and	count 3 movements.	release the button.

6		6		end
		option – B		
		Hold down the button and	count 5 movements.	release the button.

A **A.14 - Programming the movement (Ascent or Descent) that the motor must perform automatically when it starts to rain (ref. paragraph 6.1.2)**



1	2	3	→ 4
Move the awning to a half-way position.	Hold down the button and	count 2 movements	release the button.

4	5	6 ...
Hold down the button and	count 3 movements	release the button.

4	5	6 ...
Hold down the button and	count 2 movements	release the button.

Programme the movement that the motor must perform automatically when it starts to rain, by selecting one of the following option:

- **option A** – to programme the Raising of the awning.
- **option B** – to programme the Lowering of the awning.

option – A	6	end
	Hold down the button and	count 3 movements
		release the button.

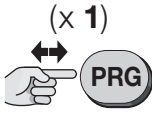
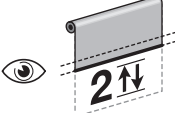
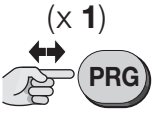
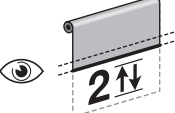
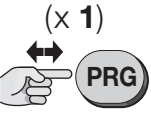
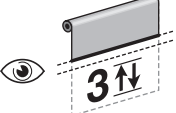
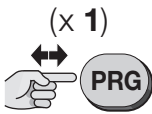
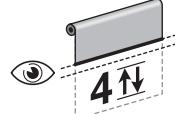
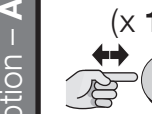
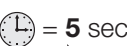
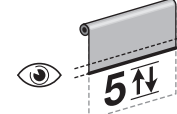
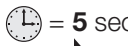
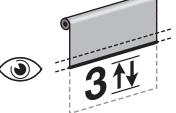
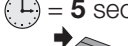
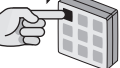
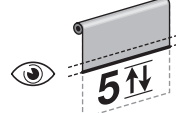
option – B	6	end
	Hold down the button and	count 3 movements
		release the button.

A A.15 - 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 1.
- To change the motor's configuration (from TWO-WAY to ONE-WAY), after completing the "FULL deletion of the memory" procedure, it is necessary to switch the motor off and then on again.
- **Once the transmitter has been deleted from the motor's memory, it is necessary to delete from the transmitter's memory the motor that is no longer associated, to prevent "no motor" error messages from appearing on the transmitter (refer to the transmitter manual).**

A.15.1 - 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);	 → 4 count 3 movements.	
4  (x 1) Press and release the button (1 time);	 count 4 movements.	5 ... Select one of the following options 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 re-program the distances using a procedure <u>different from the one used previously</u> (e.g. you have used manual distance programming (A.3) and would now like to use the semi-automatic procedure (A.8)). (*) Warning! – Once the procedure relative to the chosen option (A, B, C or D) has been completed, perform the dissociation procedure for the two-way remote control (refer to the instructions of the two-way remote control).				
option – A 5  (x 1) Press and release the button (1 time);		 count 5 movements.		option – B 5  Hold down the button and  release it after 5 seconds ;		 count 5 movements.
option – C 5  Hold down the button and  release it after 5 seconds ;			 count 3 movements.	6  On the transmitter to be deleted: hold down any key either the key memorised in mode 2 or the climatic conditions sensor;  count 5 movements.		
option – D 5  Hold down both buttons...  release them after 5 seconds ;			 count 5 movements.			

A.15.2 - Procedure run with a transmitter which has not yet been memorised

If there is a transmitter that has not been memorized, it must be memorized with procedure A.1. Then carry out procedure A.15.1 to perform the desired type of cancellation.

GENERAL INFORMATION ABOUT PROCEDURES “A.16”, “A.17”, “A.18”

The “Roller shutter cruising speed (procedure A.16)”, “Total manoeuvre duration (procedure A.17)” and “Adjustment of the Soft-Start / Soft-Stop movement (procedure A.18)” functions can be used to fully customise every aspect of the roller shutter’s movement, including alignments and other effects that are useful especially when multiple roller shutters are installed close to one another, with different sizes and rollers of different diameters, or for making the shutter’s movement more silent.

- The “Total manoeuvre duration (procedure A.17)” and the “Roller shutter cruising speed (procedure A.16)” functions are interdependent: **the last function set determines the actual cruising speed of the roller shutter.**
- After setting the desired **manoeuvre time** (procedure A.17), the system automatically adjusts the **cruising speed** (while also accounting for the set **acceleration/deceleration**) to ensure that the manoeuvre lasts exactly the set time.

If the **Soft-Start / Soft-Stop movement** (procedure A.18) is then modified, or the **limit switch positions** (procedure A.3 / A.5 / A.6), the **manoeuvre duration** remains unchanged and the system adjusts the roller shutter’s **cruising speed** accordingly.

- When setting the desired **manoeuvre duration** (procedure A.17), if the resulting **cruising speed** is outside the allowed range (see the values given in “Technical specifications”), the motor will signal the error by moving 6 times at the end of the procedures (A.3 / A.5 / A.6 / A.18), and will automatically restore the **cruising speed** to its nominal value.
- After setting the **cruising speed with procedur A.17**, changing the **limit switch positions** (procedure A.3 / A.5 / A.6) or the **Soft-Start / Soft-Stop movement** (procedure A.18) may set the **cruising speed** outside the allowed range (given in the “Technical specifications”). In such cases, the motor will signal the error by moving 6 times at the end of the procedures (A.3 / A.5 / A.6 / A.18) and will automatically restore the **cruising speed** to its nominal value.

A A.16 - Adjusting the roller shutter’s cruising speed



NOTES AND WARNINGS

- For the values of the three options available (minimum, nominal and maximum speed), consult the “Technical specifications” chapter.
- To assess whether the chosen option for the cruising speed is compatible with the roller shutter’s characteristics (weight, roller dimensions, torque required), refer to the “Technical specifications” chapter.
- The “nominal speed” option is the factory setting.

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

4	continues →
Select the desired option and program it as follows →	5 OPTIONS: 1 press = sets the MINIMUM speed. 2 presses = sets the ... speed. 3 presses = sets the NOMINAL speed (Factory setting). 4 presses = sets the ... speed. 5 presses = sets the MAXIMUM 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 and	release it after 5 seconds;
1/ 2/ 3/		count 3 movements.

A A.17 - Adjusting the total manoeuvre duration



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.18) gives the cruising speed. To assess whether the resulting cruising speed is compatible with the roller shutter's characteristics (weight, roller dimensions, torque required, etc.), consult the "Technical specifications" chapter.
- The product leaves the factory with the function 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 and;	release them 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 the 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 and	release it after 5 seconds;	count 3 movements.

A A.18 - Adjusting the Soft-Start / Soft-Stop movement



NOTES AND WARNINGS

- This procedure can be used to activate, adjust or deactivate the Soft-Start / Soft-Stop movement.
- The following options are available:
 - **function DEACTIVATED**
 - **1/2 turn**
 - **3/4 turn**
 - **1 turn**
 - **1,5 turns.**

The motor slows down for the number of set turns during both the start and stop phases.

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 and;	release them after 5 seconds;	count 3 movements.

4		5		continues →
			Select the desired option and program it as follows →	5 OPTIONS: 1 press = DEACTIVATED 2 presses = Level 2 (1/2 turn) (Default) 3 presses = Level 3 (3/4 turn) 4 presses = Level 4 (1 turn) 5 presses = Level 5 (1,5 turns)
Hold down the button and;	release them 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 and	release it after 5 seconds;	count 3 movements.

— GROUP “B” PROCEDURES —

for motors configured for ONE-WAY communications

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

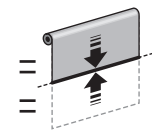
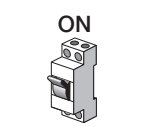
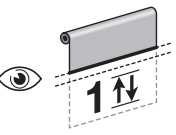
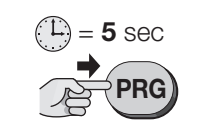
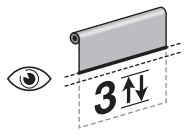
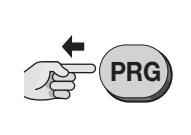
- Before starting any programming, move the roller shutter to an intermediate position, away from the Up and Down limit switches.
- All the programming procedures must be completed by selecting a single channel on the transmitter.
- If the programming transmitter controls **multiple groups of screen 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 roller shutter can only be commanded in hold-to-run mode - i.e. you must hold the button down until the roller shutter 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 roller shutter can be controlled by simply pressing and releasing the buttons. Doing so starts the movement, which is stopped automatically by the system when the roller shutter reaches the programmed position.
- To perform all the procedures, it is necessary to use a transmitter memorised in “Mode I” (for example, the one memorised with procedure B.1 motor configured for ONE-WAY communication, A.1 motor configured for TWO-WAY communication or C.1 motor configured for ONE-WAY communication and OLD generation transmitter lacking the PRG and ESC keys).
- To change the motor’s configuration (from ONE-WAY to TWO-WAY and inversely), it is necessary to perform the “TOTAL deletion of the memory” procedure (B.16 motor configured for ONE-WAY communication, A.15 motor configured for TWO-WAY communication or C.4 motor configured for ONE-WAY communication and OLD generation transmitter, lacking the PRG and ESC buttons) and then switch the motor off and on again.

B B.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 perform the procedure, it means that one or more transmitters are already memorised**; therefore, to memorise further transmitters, use the procedure described under section B.8 (motor configured for ONE-WAY communication), A.8 (motor configured for TWO-WAY communication) or C.2 (motor configured for ONE-WAY communication and OLD generation transmitter lacking the PRG and ESC keys).
- 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.
- Once the first transmitter has been memorised, the raising and lowering direction of the roller shutter will not yet be associated with the ▲ and ▼ buttons of the transmitter. This combination will occur automatically when adjusting the up (“0”) and down (“1”) limit switches (see procedure B.3); moreover, the roller shutter will only move in “hold-to-run” mode during the time in which the limit switches have not yet been adjusted.
- If within the transmitter’s range there are multiple powered up motors, to memorise the first transmitter in any one of them, **it is necessary to disconnect the power supply to all other motors** and proceed as follows:

1	2	3	end		
					
Move the roller shutter to a half-way position.	Switch on mains power,	count 1 movement.	Hold down the button and	release it after 5 seconds ;	release the button.

B B.2 - Locking and unlocking the motor's memory MONO

NOTES AND WARNINGS

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

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

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

Select one of the following options and execute it:

- **option A** – LOCK motor's memory.
- **option B** – UNLOCK motor's memory.

option – A	5	end
 Hold down the button and	 release it after 5 seconds;	 count 3 movements.

option – B	5	end
 Hold down the button and	 release it after 5 seconds;	 count 5 movements.

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

NOTES AND WARNINGS

- This procedure is obligatory only for roller shutters without a mechanical stop at the Up position.
- This procedure can be used if the limit switches have been programmed using the semiautomatic procedure (B.8).
- After the limit positions have been programmed, the roller shutter can be controlled by simply pressing the appropriate buttons on the control unit. The roller shutter will move between the positions set with procedures B.3.1 and B.3.2.
- If the limit switches have not been programmed yet, the roller shutter's direction of movement might not match the pressed button.

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

1	2	3	continues →
 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	 release it after 5 seconds;	 count 3 movements.

→ 3	4	5	end
 ... release the button as soon as the roller shutter 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;
 ... release the button as soon as the roller shutter reaches position "0" (UP limit switch).	 Hold down the button and	 release it after 5 seconds;	 count 3 movements.

B.3.2 - To program the DOWN limit switch ("1")

1		2		3		continues →
Press and release the button (1 time);		count 2 movements.		Hold down the button and		Comandare una manovra di DISCESA → Hold down the button ▼ (or ▲) and wait ...
						... release the button as soon as the roller shutter reaches position "1" (DOWN limit switch).
→ 3		4		5		end
... release the button as soon as the roller shutter reaches position "1" (DOWN limit switch).		Regolare con precisione la quota del finecorsa "1" → Press the buttons until you reach the desired position.		Hold down the button and		release it after 5 seconds;
						count 3 movements.

B.4 - AUTOMATIC Programming of the UP ("0") and DOWN ("1") limit switches



NOTES AND WARNINGS

- **Apply this procedure only if the roller blind has the following characteristics:**
 - mechanical stop in the Upper limit switch "0";
 - a terminal bar heavy enough to make the motor understand that the bar itself rests on the ground.
- **Programme the UP limit switch (0) FIRST.**
- The down limit switch (1) is NOT memorised if it is within 120° with respect to the UP limit switch (0).
- If the limit switches have not been programmed yet, the roller shutter's direction of movement might not match the pressed button
- After programming the limit switches, the ▲ key will command the **Up** manoeuvre and the ▼ switch will command the **Down** manoeuvre. The movement of the roller shutter will be limited by limit switches (Upper "0" and Lower "1") programmed by the installer.

1		2		continues →
Command an UP movement →				Command an DOWN movement →
Hold down the button ▲ (or ▼) and wait ...		... lift the roller shutter up to the upper stop. The motor will disengage automatically once the stop is reached.		Hold down the button ▼ (or ▲) and wait ...
→ 2		end		
... lower the roller shutter down to the lower stop. The motor disengages when it no longer feels that the blind is taut ...		... it re-activates during the upward movement and stops as soon as it feels the blind is taut again.		

B B.5 - AUTOMATIC programming of the UPPER limit switch ("0") and MANUAL programming of the LOWER limit switch ("1")

MONO



NOTES AND WARNINGS

- Use this procedure solely for roller shutters with mechanical Up "0" limit switch stop.
- Programme the UP limit switch (0) FIRST.
- If, previously, the limit switches were programmed with the "Manual (A.3)" programming, to complete this procedure before proceeding with the "Total or partial deletion of the memory [B.16.1 (motor configured for ONE-WAY communication), A.15.1 (motor configured for TWO-WAY communication) or C.4.1 (motor configured for ONE-WAY communication and OLD generation transmitter lacking the PRG and ESC keys) option 'A' or 'D']".
- If the limit switches have not been programmed yet, the roller shutter's direction of movement might not match the pressed button.
- After the limit positions have been programmed, the roller shutter can be controlled by simply pressing the appropriate buttons on the control unit. The Up movement will be limited when the roller shutter 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 5.4). Conversely, the Down movement will be limited by the Lower limit switch "1" (limit switch set by the installer at a desired point).

1			2		
Command an UP movement →			Command an DOWN movement →		
Hold down the button ▲ (or ▼) and wait ...			Hold down the button ▼ (or ▲) and wait ...		
... wait for the roller shutter to be stopped when it collides with the box (= UP limit switch = position "0").			... release the button as soon as the roller shutter reaches position "1" (DOWN limit switch).		
→ 2			→ 5		
... release the button as soon as the roller shutter reaches position "1" (DOWN limit switch).			... release it after 5 seconds;		
3 (x 1) PRG Press and release the button (1 time);			4 = 5 sec Hold down the button and		
count 2 movements.			count 2 movements.		
5 Finely adjusting the position of limit switch "1" →			6 = 5 sec Hold down the button and		
Press the buttons until you reach the desired position.			release it after 5 seconds;		
count 3 movements.			end		

B B.6 - MANUAL programming of the UPPER limit switch ("0") and AUTOMATIC programming of the LOWER limit switch ("1")

MONO



NOTES AND WARNINGS

- Use this procedure only for roller blinds equipped with a terminal bar that's heavy enough to make the blind taut and that must rest on the floor.
- Programme the UP limit switch (0) FIRST.
- If, previously, the limit switches were programmed with the "Manual (A.3)" programming, to complete this procedure before proceeding with the "Total or partial deletion of the memory [B.16.1 (motor configured for ONE-WAY communication), A.15.1 (motor configured for TWO-WAY communication) or C.4.1 (motor configured for ONE-WAY communication and OLD generation transmitter lacking the PRG and ESC keys) option 'A' or 'D']".
- If the limit switches have not been programmed yet, the roller shutter's direction of movement might not match the pressed button.
- After the limit positions have been programmed, the roller blind can be controlled by simply pressing the appropriate buttons on the control unit. The upward movement will be limited by the Upper limit switch "0" (limit switch set by the installer at a desired point). Conversely, the downward movement will be limited by the impact of the terminal bar with the floor – the Lower limit switch "1". With each impact, the height of this limit switch will be automatically updated by the "Automatic limit switch update" function (paragraph 5.4).

1		2	
Command an UP movement →			
Hold down the button ▲ (or ▼) and wait ...			
... release the button as soon as the roller shutter reaches position "0" (UP limit switch).			
2 (x 1) PRG Press and release the button (1 time);			
count 2 movements.			

3			4	→ 5
			Finely adjusting the position of limit switch "0" → 	
Hold down the button and	release it after 5 seconds ;	count 2 movements.	Press the buttons until you reach the desired position.	

5				→ 6
Command an DOWN movement → 				
Hold down the button ▼ (or ▲) and wait ...	... lower the roller shutter down to the lower stop. The motor disengages when it no longer feels that the blind is taut ...			... it re-activates during the upward movement and stops as soon as it feels the blind is taut again.

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

B B.7 - Programming an INTERMEDIATE POSITION (position "H") MONO

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 roller shutter at the programmed "H" position.
- Up to 30 "H" positions can be memorised if the motor is configured to operate in ONE-WAY mode, or up to 6 "H" positions if the motor is configured to operate in TWO-WAY mode, in any desired position, provided that they are within the space delimited by the two limit switches. 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		
	(x 1) 				
Move the roller shutter 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 → 			
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	
	Hold down both buttons...	release them after 5 seconds ;	count 4 movements.

option - B	6	end	
	On ANOTHER transmitter, which has NOT been memorised: hold down <u>any button you wish</u> ;		
		release it after 5 seconds ;	count 4 movements.

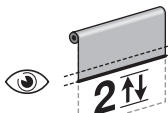
B B.8 - Memorising ANOTHER TRANSMITTER (second, third, etc.) MONO

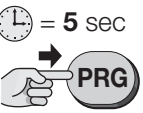
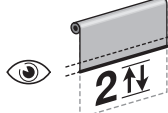
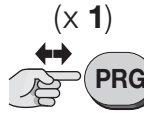
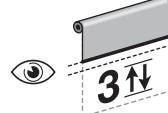
NOTES AND WARNINGS

- The motor configured to operate in ONE-WAY mode can memorise up to 30 transmitters.
- To run procedure B.8.1, 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 procedure B.8.2 you must have a **new transmitter to memorise**, chosen from the "Nice Screen" catalogue, and an **old previously memorised transmitter**.

B.8.1 - To memorise the transmitter buttons in "Mode I" ("Standard mode")

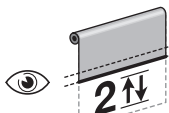
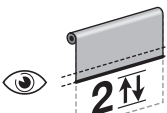
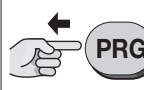
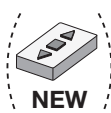
- Procedure B.8.1 memorise all the new transmitter's buttons in "Mode I", with the same configuration as the old transmitter (for details about "Mode I" see par. 4.6.1).

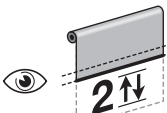
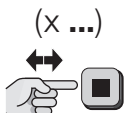
1 → 2					
					
On the OLD transmitter: hold down the button and		count 2 movements;	wait again...	count 2 more movements;	release the button.

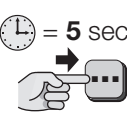
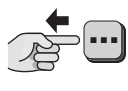
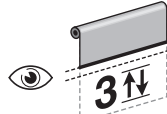
2			3 end		
					
On the NEW transmitter: hold down the button and		release it after 5 seconds;	count 2 movements.	On the OLD transmitter: press and release the button (1 time);	
					
				count 3 movements (= transmitter memorised). If the system makes 6 movements (= memory locked or full, transmitter not memorised).	

B.8.2 - To memorise the transmitter buttons in "Mode II" ("Custom mode")

- Procedure B.8.2 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 4.6.1).
- Procedures B.8.2 memorise a single button. Repeat this operation to memorise another button.

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

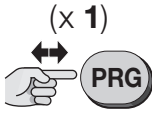
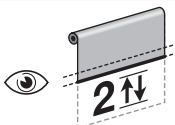
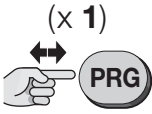
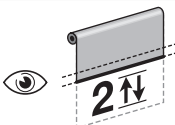
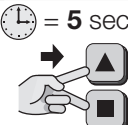
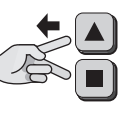
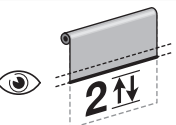
→ 2			3 continues →		
		Select the desired option and program it as follows →			4 OPTIONS: 1 press = Open > Stop > Close > Stop > ... 2 presses = Open 3 presses = Close 4 presses = Stop
release it after 5 seconds;	count 2 movements.		On the OLD transmitter: Press and release the button the number of times indicated in the option you have chosen;		

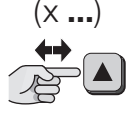
→ 3		4 end			
					
After about 7 seconds, the motor performs a number of movements equal to the number of pulses entered.		On the NEW transmitter: select the button you want to memorise; hold it down and		release it after 5 seconds;	count 3 movements (= transmitter memorised). If the system makes 6 movements (= memory locked or full, transmitter not memorised).

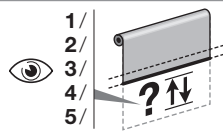
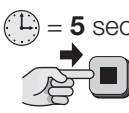
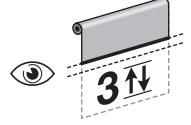
B B.9 - RDC" Function: adjustment of the motor traction force when closing MONO

NOTES AND WARNINGS

- This function prevents the excessive traction of the canvas at the end of the closing manoeuvre. During the final phase of this manoeuvre, the function automatically reduces the motor traction torque, based on the factory setting or the one adjusted by the installer with the following procedure.
- Warning! – This function is active with the factory setting but is not applicable if the limit switches are programmed with the manual procedure B.3.**

1	2	3	→ 4
 (x 1) Hold down the button and	 count 2 movements.	 (x 1) Hold down the button and	 count 2 movements.
		 = 5 sec 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: x 1 = standard sensitivity (*) x 2 = minimum sensitivity x 3 = medium sensitivity x 4 = function deactivated x 5 = function deactivated
	Press and release the button the number of times indicated in the option you have chosen;

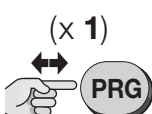
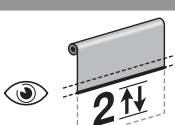
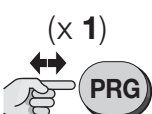
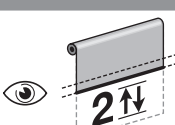
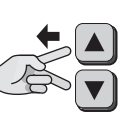
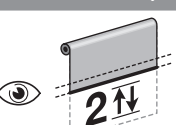
→ 4	5	fine
 10 sec. After about 10 seconds, the motor performs a number of movements equal to the number of pulses entered.	 1/ 2/ 3/ 4/ 5/ ?	 = 5 sec Hold down the button and
		 release it after 5 seconds ;
		 count 3 movements.

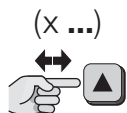
(*) = Factory setting.

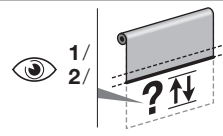
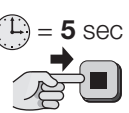
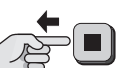
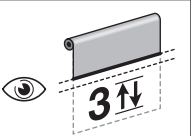
B B.10 - Behaviour of the motor in the presence of an obstacle MONO

NOTES AND WARNINGS

- This procedure can be used to modify the behaviour of the roller shutter when the motor detects an obstacle.
- There are two types of behaviours: **a)** the motor stops its movement and completes a brief reversal to free the obstacle (Factory setting); **b)** the motor will automatically verify whether the obstacle is a physical one or simply wind. In the event of a physical object, the motor will make a brief inversion, whereas in case of wind the motor will return to the upper limit switch.

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

4	continues →
Select the desired option and program it as follows →	 (X ...) 2 OPTIONS: 1 press = Behaviour 1 (Factory setting), the motor stops moving and performs a brief reversal to free the obstacle 2 presses = Behaviour 2 wind protection
	Press and release the button the number of times indicated in the option you have chosen;

→ 4	5	end
 10 sec. After about 10 seconds, the motor performs a number of movements equal to the number of pulses entered.	 1/ 2/ ?	 = 5 sec Hold down the button and
		 release it after 5 seconds ;
		 count 3 movements.

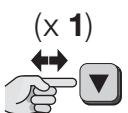
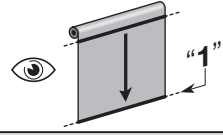
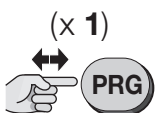
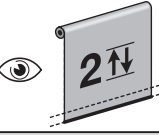
B B.11 - "FRT" Function: automatic tensioning of the canvas when opening awnings that are not fitted with a mechanism to lock the awning when opening

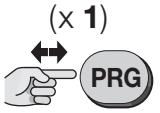
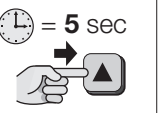
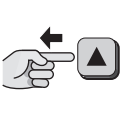
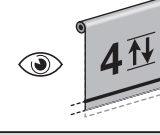
• **Warning!** – The FRT function cannot be activated if the FTC or FTA function has already been activated.

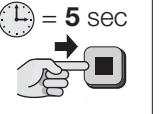
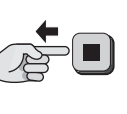
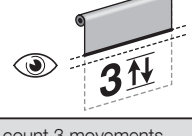
• This function is useful to eliminate the unsightly depression of the canvas that may form when the awning is open. It is activated by programming position "2" near the limit switch "1". The function may only be used in awnings that DO NOT have any mechanism to lock the canvas in the open position. When the function is activated, when using the automation, the awning lowers to the lower limit switch "1" and then automatically raises to position "2" (the one programmed with the following procedure), stretching the canvas. The function also acts when a partial opening/closing manoeuvre is commanded. In these cases the awning stops in correspondence to the height "H" programmed and then rises automatically until the canvas is taut.

NOTES AND WARNINGS

- The "FRT" function may be programmed exclusively after having programmed the limit switch heights "0" and "1".
- Position "2" must be a point between limit switch "1" and limit switch "0".

1	2	3	→ 4
			
Hold down the button.		Hold down the button and	count 2 movements.

4	5	6	→ 7
			
Hold down the button and	count 3 movements.	Hold down the button and	release it after 5 seconds;
			count 4 movements.

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

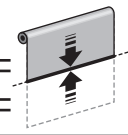
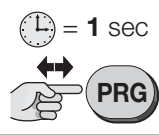
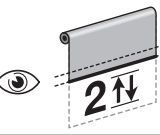
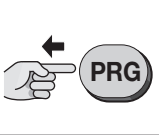
B B.12 - "FTC" Function: tensioning the canvas when open awnings fitted with an automatic hooking and unhooking mechanism of the awning when opening

• **Warning!** – The FTC function cannot be activated if the FRT or FTA function has already been activated.
If the LOWER limit switch has been set to AUTOMATIC, the FTC function cannot be activated.

• This function is useful to eliminate the unsightly depression of the canvas that may form when the awning is open. The function may used exclusively in awnings which allow the locking of the canvas when open, through an automatic hooking/unhooking mechanism located in the limit switch "1" (e.g. stationary canopy, roller awnings with hooks, etc.). Normally this type of mechanism features 3 characteristic positions, located near each other: the "mechanical stop" where the canvas is hooked, **position "1"** (located a few centimetres below the mechanical stop) which allows the hooking to the canvas, **position "S"** (located a few centimetres below position "1") which allows the unhooking of the canvas.

• **How to program position "1"**: this position must coincide with the height of limit switch "1". Therefore, if limit switches "0" and "1" are already programmed it will be necessary to delete them with procedure 5.16 and adjust them again with the manual procedure (paragraph 5.6, if the awning does not have a box), or with the semiautomatic procedure (paragraph 5.7, if the awning has a box).

• **How to program position "S"**: this position is programmed with the following procedure (**note** – programming the "S" position also activates the FTC function at the same time).

1	2	3	→ 4
			
Move the awning to a half-way position.	Hold down the button and	count 2 movements.	release the button.
			Hold down the button and
			count 2 movements.
			release the button.

4			5			→ 5
Hold down the button and	count 3 movements.	release the button.	Hold down the button and	count 4 movements.	release the button.	

6			7			end
Hold down the button ...	until the awning reaches the suitable "S" position (in addition to point "1");	press the buttons until you reach the desired position.	Hold down the button and	release it after 5 seconds;	count 3 movements.	

B B.13 - "FTA" Function: tensioning the canvas when open awnings fitted with a manual hooking and unhooking mechanism of the awning when opening

- **Warning!** – The FTA function cannot be activated if the FRT or FTC function has already been activated. If the LOWER limit switch has been set to AUTOMATIC, the FTA function cannot be activated.

- This function is useful to eliminate the unsightly depression of the canvas that may form when the awning is open. The function may be used exclusively in awnings that let you lock the canvas in the open position through a mechanism manually attachable and detachable by the user (e.g. the bolts in stationary canopies, roller awnings with hooks, fixed arm awnings, etc). With the lock mechanism inserted and this function activated, during a closing manoeuvre the motor stops the awning in correspondence to the lock mechanism, leaving the canvas taut. To unlock the awning, first send a short Down command to manually remove the lock and finally send an UP command to the awning.

NOTES AND WARNINGS

- The "FTA" function may be programmed exclusively after having programmed the limit switch heights "0" and "1".

1		2		3		→ 4
Move the awning to a half-way position.	Hold down the button and	count 2 movements.	release the button.	Hold down the button and	count 2 movements.	release the button.

4			5			→ 6
Hold down the button and	count 3 movements.	release the button.	Hold down the buttons and	count 4 movements.	release the buttons.	

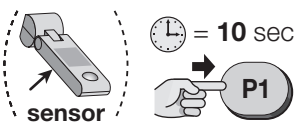
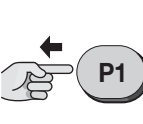
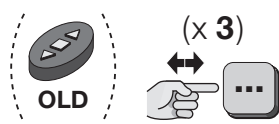
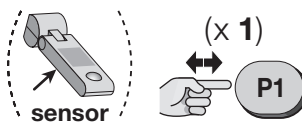
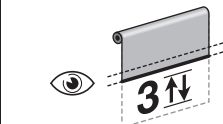
6 ...		6			end
Select one of the following options and execute it: • option A – To activate the "FTA" function. • option B – To deactivate the "FTA" function.		option – A			
			Hold down the button and	count 3 movements.	release the button.

6 ...		6			end
		option – B			
			Hold down the button and	count 5 movements.	release the button.

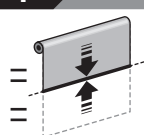
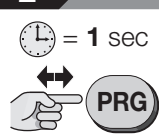
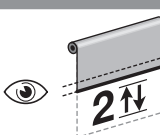
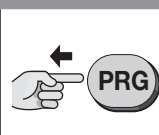
B B.14 - Memorisation of a climate sensor connected via radio MONO

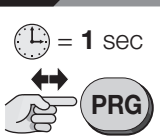
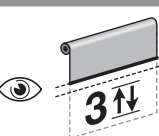
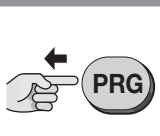
NOTES AND WARNINGS

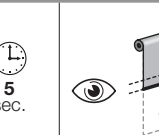
- To run this procedure you need the climate sensor you want to memorise, chosen from the "Nice Screen" catalogue, and an old transmitter memorised in Mode I (see par. 4.6.1).
- When performing the procedure, you can cancel the programming at any time by holding down **■** and **▼** together for 4 seconds. Alternatively, do not press any keys and wait 60 seconds for the motor to perform 6 movements.

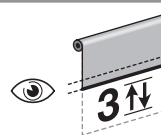
1	2	3	end	
 sensor	 P1	 OLD	 sensor	 3
On the climate SENSOR: hold down the yellow button "P1";	release it after 10 seconds;	On the OLD transmitter: press and release (3 times) any button.	On the climate sensor: press and release (1 time) the yellow button "P1";	count 3 movements (= sensor memorised).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

B B.15 - Programming the movement (Ascent or Descent) that the motor must perform automatically when it starts to rain (ref. paragraph 6.1.2) MONO

1	2	3	→ 4
 Move the awning to a half-way position.	 Hold down the button and	 count 2 movements	 release the button.

4	5	6 ...
 Hold down the button and	 count 3 movements	 release the button.

6	end
 Hold down the button and	 count 3 movements

6	end
 Hold down the button and	 count 3 movements

Programme the movement that the motor must perform automatically when it starts to rain, by selecting one of the following option:

- **option A** – to programme the Raising of the awning.
- **option B** – to programme the Lowering of the awning.

B B.16 - TOTAL or PARTIAL deletion of memory MONO

NOTES AND WARNINGS

- In order to carry out the following deletion procedures, the transmitter must be memorised in mode I.
- To change the motor's configuration (from TWO-WAY to ONE-WAY), after completing the "FULL deletion of the memory" procedure, it is necessary to switch the motor off and then on again.

B.16.1 - Procedure run with a memorised transmitter

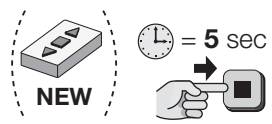
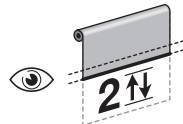
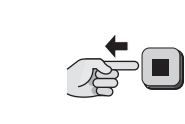
1 Press and release the button (1 time); count 2 movements.	2 Press and release the button (1 time); count 2 movements.	3 → 4 Press and release the button (1 time); count 3 movements.
4 Press and release the button (1 time); count 4 movements.	5 ... Select one of the following options and execute it: <u>option A</u> – delete the motor's ENTIRE memory <u>option B</u> – delete ALL memorised transmitters <u>option C</u> – delete ONE memorised transmitter <u>option D</u> – delete ALL positions ("0", "1", "H", etc.). Caution! – This deletion should only be performed if you wish re-program the distances using a procedure <u>different from the one used previously</u> (e.g. you have used manual distance programming (B.3) and would now like to use the semi-automatic procedure (B.8).	
5 end option – A Press and release the button (1 time); count 5 movements.	5 end option – B Hold down the button and release it after 5 seconds; count 5 movements.	
5 end option – C Hold down the button and release it after 5 seconds; count 3 movements.	6 end On the transmitter to be deleted: hold down any key either the key memorised in mode 2 or the climatic conditions sensor; count 5 movements.	
5 end option – D Hold down both buttons... release them after 5 seconds; count 5 movements.		

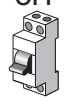
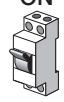
B.16.2 - Procedure run with a transmitter which has not yet been memorised

NOTES AND WARNINGS

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

1 Disconnect the electrical power supply to the motor.	2	3 → 4 Reconnect the electrical power supply to the motor once again.
---	---	---

4	5	6 → 7
		
Hold down the button and;		release them after 5 seconds;
<----- Within 10 seconds ----->		

7	8	9	10 ...
OFF 	 5 sec.	ON 	Run procedure B.16.1. in full.
Disconnect the electrical power supply to the motor.		Reconnect the electrical power supply to the motor once again.	

GENERAL INFORMATION ABOUT PROCEDURES “B.17”, “B.18”, “B.19”

The “Roller shutter cruising speed (procedure B.17)”, “Total manoeuvre duration (procedure B.18)” and “Adjustment of the Soft-Start / Soft-Stop movement (procedure B.19)” functions can be used to fully customise every aspect of the roller shutter’s movement, including alignments and other effects that are useful especially when multiple roller shutters are installed close to one another, with different sizes and rollers of different diameters, or for making the shutter’s movement more silent.

- The “Total manoeuvre duration (procedure B.18)” and the “Roller shutter cruising speed (procedure B.17)” functions are interdependent: **the last function set determines the actual cruising speed of the roller shutter.**
- After setting the desired **manoeuvre time** (procedure B.18), the system automatically adjusts the **cruising speed** (while also accounting for the set **acceleration/deceleration**) to ensure that the manoeuvre lasts exactly the set time.

If the **Soft-Start / Soft-Stop movement** (procedure B.19) is then modified, or the **limit switch positions** (procedure B.3 / B.5 / B.6), the **manoeuvre duration** remains unchanged and the system adjusts the roller shutter's **cruising speed** accordingly.

- When setting the desired **manoeuvre duration** (procedure B.18), if the resulting **cruising speed** is outside the allowed range (see the values given in “Technical specifications”), the motor will signal the error by moving 6 times at the end of the procedures (B.3 / B.5 / B.6 / B.19), and will automatically restore the **cruising speed** to its nominal value.
- After setting the **cruising speed with procedure B.18**, changing the **limit switch positions** (procedure B.3 / B.5 / B.6) or the **Soft-Start / Soft-Stop movement** (procedure B.19) may set the **cruising speed** outside the allowed range (given in the “Technical specifications”). In such cases, the motor will signal the error by moving 6 times at the end of the procedures (B.3 / B.5 / B.6 / B.19) and will automatically restore the **cruising speed** to its nominal value.

B.17 - Adjusting the roller shutter's cruising speed

NOTES AND WARNINGS

- For the values of the three options available (minimum, nominal and maximum speed), consult the “Technical specifications” chapter.
- To assess whether the chosen option for the cruising speed is compatible with the roller shutter’s characteristics (weight, roller dimensions, torque required), refer to the “Technical specifications” chapter.
- The “nominal speed” option is the factory setting.

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 and;	release them after 5 seconds ;
			count 3 movements.

4 Select the desired option and program it as follows →	5 OPTIONS:  1 press = sets the MINIMUM speed. 2 presses = sets the ... speed. 3 presses = sets the NOMINAL speed (Factory setting). 4 presses = sets the ... speed. 5 presses = sets the MAXIMUM speed. Premere e rilasciare il tasto lo stesso numero di volte indicato nell'opzione scelta;
--	---

→ 4		5			end
 7 sec.	 1/ 2/ 3/ 	 = 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.

B B.18 - Adjusting the total manoeuvre duration MONO



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 B.19) gives the cruising speed. To assess whether the resulting cruising speed is compatible with the roller shutter's characteristics (weight, roller dimensions, torque required, etc.), consult the "Technical specifications" chapter.
- The product leaves the factory with the function 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 and;	release them after 5 seconds;	count 3 movements.

4 continues →

Select the desired option and program it as follows →	(X ...) 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 the 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 and	release it after 5 seconds;	count 3 movements.	

B B.19 - Adjusting the Soft-Start / Soft-Stop movement MONO



NOTES AND WARNINGS

- This procedure can be used to activate, adjust or deactivate the Soft-Start / Soft-Stop movement.
- The following options are available:
 - **function DEACTIVATED**
 - **1/2 turn**
 - **3/4 turn**
 - **1 turn**
 - **1,5 turns**

The motor slows down for the number of set turns during both the start and stop phases.

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 and;	release them after 5 seconds;	count 3 movements.

4 continues →

			Select the desired option and program it as follows →
Hold down the button and;	release them after 5 seconds;	count 3 movements.	(X ...) 5 OPTIONS: 1 press = DEACTIVATED 2 presses = Level 2 (1/2 turn) (Default) 3 presses = Level 3 (3/4 turn) 4 presses = Level 4 (1 turn) 5 presses = Level 5 (1,5 turns)
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 and	release it after 5 seconds;	count 3 movements.	

— GROUP “C” PROCEDURES —

for motors configured for ONE-WAY communication mode

feasible only with a Nice transmitter equipped with buttons ▲, ■, and ▼ alone and lacking the PRG and ESC buttons

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.
- All the programming procedures must be completed by selecting a single channel on the transmitter.
- 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 performing the procedure, you can cancel the programming at any time by holding down ■ and ▼ together for 4 seconds.
- 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 C.1 or with procedure C.2.1).

C C.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 perform the procedure, it means that one or more transmitters are already memorised**; therefore, to memorise further transmitters, use the procedure described under section B.8 (motor configured for ONE-WAY communication), A.8 (motor configured for TWO-WAY communication) or C.2 (motor configured for ONE-WAY communication and OLD generation transmitter lacking the PRG and ESC keys).
- 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.
- Once the memorisation has been completed, the Up and Down directions of the roller shutter will not yet be associated with the respective ▲ and ▼ buttons of the transmitter. This will occur automatically when adjusting limit switches “0” and “1” (see procedure C.6); moreover, the roller shutter will move in “hold-to-run” mode until the limit switches have been adjusted.
- If within the transmitter’s range there are multiple powered up motors, to memorise the first transmitter in any one of them, **it is necessary to disconnect the power supply to all other motors** and proceed as follows:

1	2	3	end		
Move the roller shutter to a half-way position.	Switch on mains power,	count 1 movement.	Hold down the button and	release it after 5 seconds ;	release the button.

C

C.2 - Memorising **ANOTHER TRANSMITTER** (second, third, etc.)

NOTES AND WARNINGS

- The motor configured to operate in ONE-WAY mode can memorise up to 30 transmitters.
- To run procedure C.2.1, 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 procedure C.2.2 you must have a **new transmitter** to memorise, chosen from the "Nice Screen" catalogue, and an **old** previously memorised transmitter.

C.2.1 - To memorise the transmitter buttons in "Mode I" ("Standard mode")

- Procedure C.2.1 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. 4.6.1).

1 NEW On the OLD transmitter: hold down the button and	 8 sec. release it after 8 seconds .	2 → 3 OLD On the OLD transmitter: press and release the button (3 times), provided the button is memorised.
3 NEW On the NEW transmitter: press and release the button (1 time);	 3 end count 3 movements (= transmitter memorised) . If the system makes 6 movements (= memory locked or full, transmitter not memorised).	

C.2.2 - To memorise the transmitter buttons in "Mode II" ("Custom mode")

- Procedure C.2.2 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 4.6.1).
- Procedures C.2.2 memorise a single button. Repeat this operation to memorise another button.
- 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 NEW On the NEW transmitter: hold down the button you want to memorise;	 8 sec. release it after 8 seconds ;	2 OLD On the OLD transmitter: hold down the button and	 5 sec. release it after 5 seconds ;	3 4 count 4 movements .
3 Select the desired option and program it as follows →	 OLD 4 OPTIONS: 1 press = Open > Stop > Close > Stop > ... 2 presses = Open 3 presses = Close 4 presses = Stop On the OLD transmitter: press and release the button the number of times indicated in the option you have chosen;	continues →		
→ 3 7 sec. n after about 7 seconds, the motor performs a number of movements equal to the number of pulses entered.	4 NEW On the NEW transmitter: hold down the same button you pressed in Step 1;	 5 sec. release it after 5 seconds ;	 3 end count 3 movements (= transmitter memorised) . If the system makes 6 movements (= memory locked or full, transmitter not memorised).	

C C.3 - 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. 4.6.1).
- 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	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).

C C.4 - 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.
- To change the motor's configuration (from TWO-WAY to ONE-WAY), after completing the "FULL deletion of the memory" procedure, it is necessary to switch the motor off and then on again.
- When performing the procedure, you can cancel the programming at any time by pressing and holding the ■ and ▼ buttons simultaneously for 4 seconds. Alternatively, do not press any button and wait 60 seconds for the motor to complete 6 movements.

C.4.1 - Procedure run with a memorised transmitter

1	2	→ 3
Hold down the button and count 2 movements;	release the button.	Hold down the button and count 3 movements;
release the button.	Hold down the button and count 3 movements;	release the button.

5 ...

Select one of the following options 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 using a procedure different from the one used previously (e.g. you have used manual distance programming (C.5) and would now like to use the semi-automatic procedure (C.9).

option – A	5	end
	Hold down both buttons; count 5 movements;	release the buttons.

option – B	5	end
	Hold down both buttons; count 5 movements;	release the buttons.

option – C	5			6		end
	Hold down the button and	count 3 movements;	release the button.	On the transmitter to be deleted: hold down any key either the key memorised in mode 2 or the climatic conditions sensor;		count 5 movements.

option – D	5			end
	Hold down the button and	count 5 movements;	release the button.	

C.4.2 - Procedure performed with an unmemorised transmitter

1			2		→ 3
Disconnect the power supply to the motor		Reconnect the power supply	Hold down the button	Release the button.	
3			4 ...		
			Now run the procedure C.4.1.		
Disconnect the power supply to the motor		Reconnect the power supply.			

C C.5 - MANUAL programming of the UP ("0") and DOWN ("1") limit switches



NOTES AND WARNINGS

- **This procedure is obligatory only for roller shutters without a mechanical stop at the Up position.**
- This procedure can be used if the limit switches have been programmed using the semiautomatic procedure (C.9).
- After the limit positions have been programmed, the roller shutter can be controlled by simply pressing the appropriate buttons on the control unit. The roller shutter will move between the positions set with procedures C.5.1 and C.5.2.
- If the limit switches have not been programmed yet, the roller shutter's direction of movement might not match the pressed button.
- When performing the procedure, at any time you can cancel it by keeping the and keys pressed simultaneously for 4 seconds. Otherwise, do not press any key and wait 60 seconds for the motor to perform 6 movements. • After the adjustments, the key will command the Raising motion and the key key will command the Lowering motion. The roller shutter will move within the limits defined by the two limit switch heights.

C.5.1 - To program the UP limit switch ("0")

1			2			→ 3
Hold down the button and	count 2 movements;	release the button.	Hold down the button and	count 4 movements;	release the button.	
3			4			
			Command an UP movement →			
Hold down the button and	count 2 movements;	release the button.	Hold down the button (or) and wait ...		... release the button as soon as the roller shutter reaches position "0" (UP limit switch).	

5	6	end	
Regolare con precisione la quota del finecorsa "0" →			
Press the buttons until you reach the desired position.	Hold down the button and	count 3 movements;	release the button.

C.5.2 - To program the DOWN limit switch ("1")

1	2	→ 3	
Hold down the button and	count 2 movements;	release the button.	Hold down the button and
			count 4 movements;
			release the button.
3	4	→ 5	
			Command an DOWN movement →
Hold down the button and	count 2 movements;	release the button.	Hold down the button ▲ (or ▼) and wait ...
			... release the button as soon as the roller shutter reaches position "1" (DOWN limit switch).
5	6	end	
Finely adjusting the position of limit switch "1" →			
Press the buttons until you reach the desired position.	Hold down the button and	count 3 movements;	release the button.

C C.6 - AUTOMATIC Programming of the UP ("0") and DOWN ("1") limit switches



NOTES AND WARNINGS

- **Apply this procedure only if the roller blind has the following characteristics:**
 - mechanical stop in the Upper limit switch "0";
 - a terminal bar heavy enough to make the motor understand that the bar itself rests on the ground.
- **Programme the UP limit switch (0) FIRST.**
- If, previously, the limit switches were programmed with the "Manual (C.5)" programming, to complete this procedure before proceeding with the "Total or partial deletion of the memory [B.16.1 (motor configured for ONE-WAY communication), A.15.1 (motor configured for TWO-WAY communication) or C.4.1 (motor configured for ONE-WAY communication and OLD generation transmitter lacking the PRG and ESC keys) option 'A' or 'D']".
- After the limit positions have been programmed, the roller shutter can be controlled by simply pressing the appropriate buttons on the control unit. The roller shutter's movement will be limited by the limit switches (Up "0" and Down "1") programmed by the installer. With each impact, the height of this limit switch will be automatically updated by the "Automatic limit switch update" function (paragraph 5.4).
- When performing the procedure, at any time you can cancel it by keeping the ■ and ▼ keys pressed simultaneously for 4 seconds. Otherwise, do not press any key and wait 60 seconds for the motor to perform 6 movements. • After the adjustments, the ▲ key will command the Raising motion and the key ▼ key will command the Lowering motion. The roller shutter will move within the limits defined by the two limit switch heights.

1	2	→ 3	
Hold down the button and	count 2 movements;	release the button.	Hold down the button and
			count 4 movements;
			release the button.

3

→ 4

Hold down the button and	wait for the roller shutter to start rising; the motor will disengage automatically once the upper stop has been reached and will memorise the UP "0" limit switch;	If the roller shutter starts in the opposite direction, press and release the ▲ button to invert the motor's rotation direction.	release the button.

4

end

The roller shutter will start descending; The motor disengages when it no longer feels that the blind is taut ...	... it re-activates during the upward movement and stops as soon as it feels the blind is taut again. Note – In case of need, to promptly stop the motor, press the ■ button (the command also cancels the procedure).

C C.7 - AUTOMATIC programming of the UPPER limit switch ("0") and MANUAL programming of the LOWER limit switch ("1")



NOTES AND WARNINGS

- Use this procedure solely for roller shutters with mechanical Up "0" limit switch stop.
- Programme the UP limit switch (0) FIRST.
- If, previously, the limit switches were programmed with the "Manual (C.5)" programming, to complete this procedure before proceeding with the "Total or partial deletion of the memory [B.16.1 (motor configured for ONE-WAY communication), A.15.1 (motor configured for TWO-WAY communication) or C.4.1 (motor configured for ONE-WAY communication and OLD generation transmitter lacking the PRG and ESC keys) option 'A' or 'D']".
- If the limit switches have not been programmed yet, the roller shutter's direction of movement might not match the pressed button.
- After the limit positions have been programmed, the roller shutter can be controlled by simply pressing the appropriate buttons on the control unit. The Up movement will be limited when the roller shutter 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 5.4). Conversely, the Down movement will be limited by the Lower limit switch "1" (limit switch set by the installer at a desired point).
- When performing the procedure, at any time you can cancel it by keeping the ■ and ▼ keys pressed simultaneously for 4 seconds. Otherwise, do not press any key and wait 60 seconds for the motor to perform 6 movements. • After the adjustments, the ▲ key will command the Raising motion and the key ▼ key will command the Lowering motion. During the ascent, the roller shutter will be stopped by the impact against the structure's mechanical stops (= Up "0" limit switch), while during the descent the roller shutter will stop at the down limit switch ("1") defined by the installer.

1

2

continues →

Command an UP movement → 			Comandare una manovra di DISCESA →
Hold down the button ▲ (or ▼) and wait ...	... wait for the roller shutter to be stopped when it collides with the box (= UP limit switch = position "0").	release the button.	Hold down the button ▼ (or ▲) and wait ...

→ 2

3

→ 4

... release the button as soon as the roller shutter reaches position "1" (DOWN limit switch).	Hold down the button and	count 2 movements;	release the button.

4

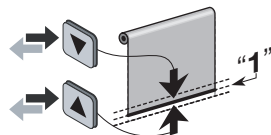
5

→ 6

Hold down the button and	count 4 movements;	release the button.	Hold down the button and	count 2 movements;	release the button.

6

Regolare con precisione la quota del finecorsa "1" →

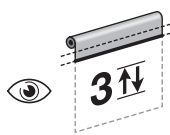


Press the buttons until you reach the desired position.

7



Hold down the button and



count 3 movements;



release the button.

end

C C.8 - MANUAL programming of the UPPER limit switch ("0") and AUTOMATIC programming of the LOWER limit switch ("1")

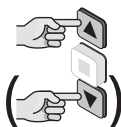


NOTE E AVVERTENZE

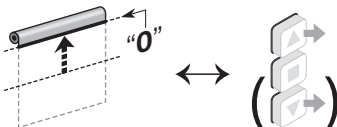
- Use this procedure only for roller blinds equipped with a terminal bar that's heavy enough to make the blind taut and that must rest on the floor.
- Programme the UP limit switch (0) FIRST.
- If, previously, the limit switches were programmed with the "Manual (C.5)" programming, to complete this procedure before proceeding with the "Total or partial deletion of the memory [B.16.1 (motor configured for ONE-WAY communication), A.15.1 (motor configured for TWO-WAY communication) or C.4.1 (motor configured for ONE-WAY communication and OLD generation transmitter lacking the PRG and ESC keys) option 'A' or 'D']".
- If the limit switches have not been programmed yet, the roller shutter's direction of movement might not match the pressed button.
- After the limit positions have been programmed, the roller blind can be controlled by simply pressing the appropriate buttons on the control unit. The upward movement will be limited by the Upper limit switch "0" (limit switch set by the installer at a desired point). Conversely, the downward movement will be limited by the impact of the terminal bar with the floor – the Lower limit switch "1". With each impact, the height of this limit switch will be automatically updated by the "Automatic limit switch update" function (paragraph 5.4).
- When performing the procedure, at any time you can cancel it by keeping the ■ and ▼ keys pressed simultaneously for 4 seconds. Otherwise, do not press any key and wait 60 seconds for the motor to perform 6 movements.
- After the adjustments, the ▲ key will command the upward movement and the ▼ key will command the downward movement. During the upward movement, the roller blind will stop at the upper limit switch ("0") defined by the installer, whereas during the downward movement it will be stopped by the terminal bar touching the floor – the lower limit switch "1".

1

Command an UP movement →



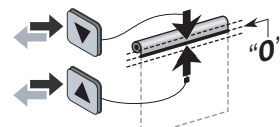
Hold down the button ▲ (or ▼) and wait ...



... release the button as soon as the roller shutter reaches **position "0"** (UP limit switch).

2

Finely adjusting the position of limit switch "0" →

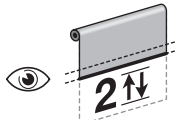


Press the buttons until you reach the desired position.

3



Hold down the button and



count 2 movements;



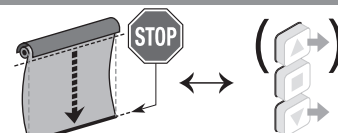
release the button.

4

Command an DOWN movement →



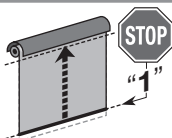
Hold down the button ▼ (or ▲) and wait ...



... lower the roller shutter down to the lower stop. The motor disengages when it no longer feels that the blind is taut ...

continues →

→ 4



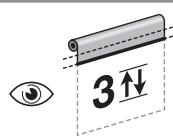
... it re-activates during the upward movement and stops as soon as it feels the blind is taut again.

Note – In case of need, to promptly stop the motor, press the ■ button (the command also cancels the procedure).

5



Hold down the button and



count 3 movements;



release the button.

end

C

C.9 - 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 roller shutter at the programmed "H" position.
- Up to 30 "H" positions can be memorised if the motor is configured to operate in ONE-WAY mode, or up to 6 "H" positions if the motor is configured to operate in TWO-WAY mode, in any desired position, provided that they are within the space delimited by the two limit switches. 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		
Hold down the button and	count 2 movements;	release the button.	Hold down the button and	count 4 movements;	release the button.

3			4 → 5	
			Precisely adjusting the "H" position → 	
Hold down both buttons...	count 2 movements;	release the buttons.	Press the buttons until you reach the desired position.	

5			6 ...	
			Select one of the following options and execute it: • option A – to memorise the FIRST "H" position. • option B – to memorise a SUPPLEMENTARY "H" position.	
Hold down the button and	count 3 movements;	release the button.		

6			end	
option – A				
	Hold down both buttons...	count 4 movements;	release the buttons.	

6		end	
option – B			
	On ANOTHER transmitter, which has NOT been memorised: hold down <u>any button you wish</u> ;	count 4 movements.	

C C.10 - "RDC" Function: adjustment of the motor traction force when closing



NOTES AND WARNINGS

- This function prevents the excessive traction of the canvas at the end of the closing manoeuvre. During the final phase of this manoeuvre, the function automatically reduces the motor traction torque, based on the factory setting or the one adjusted by the installer with the following procedure.
- Warning! – This function is active with the factory setting but is not applicable if the limit switches are programmed with the manual procedure C.5.**
- When performing the procedure, at any time you can cancel it by keeping the and keys pressed simultaneously for 4 seconds. Otherwise, do not press any key and wait 60 seconds for the motor to perform 6 movements.

1		2		3		continues →	
							5 OPTIONS: x 1 = standard sensitivity (*) x 2 = minimum sensitivity x 3 = medium sensitivity x 4 = function deactivated x 5 = function deactivated
Move the awning to a half-way position.		Hold down both buttons...		Select the de- sired option and program it as fol- lows →			
→ 3		4		end			
after about 10 seconds, the motor performs a number of movements equal to the number of pulses entered.		Hold down the button and		count 3 movements;			

(*) = Factory setting.

C C.11 - "FRT" Function: automatic tensioning of the canvas when opening awnings that are not fitted with a mechanism to lock the awning when opening



- Warning! – The FRT function cannot be activated if the FTC or FTA function has already been activated.**
- This function is useful to eliminate the unsightly depression of the canvas that may form when the awning is open. It is activated by programming position "2" near the limit switch "1". The function may only be used in awnings that DO NOT have any mechanism to lock the canvas in the open position. When the function is activated, when using the automation, the awning lowers to the lower limit switch "1" and then automatically raises to position "2" (the one programmed with the following procedure), stretching the canvas. The function also acts when a partial opening/closing manoeuvre is commanded. In these cases the awning stops in correspondence to the height "H" programmed and then rises automatically until the canvas is taut.

NOTES AND WARNINGS

- The "FRT" function may be programmed exclusively after having programmed the limit switch heights "0" and "1".
- Position "2" must be a point between limit switch "1" and limit switch "0".

1		2		→ 3	
Hold down the button and		Hold down the button and		count 2 movements.	
release the button.					
3		4		→ 5	
Hold down the button and		count 3 movements.		count 4 movements.	
release the button.		Hold down the button and		release the button.	
5		6		end	
The position with the canvas taut is position "2".		Hold down the button and		count 3 movements.	
				release the button.	

C C.12 - "FTC" Function: tensioning the canvas when open awnings fitted with an automatic hooking and unhooking mechanism of the awning when opening



- **Warning!** – The FTC function cannot be activated if the FRT or FTA function has already been activated. If the LOWER limit switch has been set to AUTOMATIC, the FTC function cannot be activated.

• This function is useful to eliminate the unsightly depression of the canvas that may form when the awning is open. The function may be used exclusively in awnings which allow the locking of the canvas when open, through an automatic hooking/unhooking mechanism located in the limit switch "1" (e.g. stationary canopy, roller awnings with hooks, etc.). Normally this type of mechanism features 3 characteristic positions, located near each other: the **"mechanical stop"** where the canvas is hooked, **position "1"** (located a few centimetres below the mechanical stop) which allows the hooking to the canvas, **position "S"** (located a few centimetres below position "1") which allows the unhooking of the canvas.

• **How to program position "1"**: this position must coincide with the height of limit switch "1". Therefore, if limit switches "0" and "1" are already programmed it will be necessary to delete them with procedure 5.16 and adjust them again with the manual procedure (paragraph 5.6, if the awning does not have a box), or with the semiautomatic procedure (paragraph 5.7, if the awning has a box).

• **How to program position "S"**: this position is programmed with the following procedure (**note** – programming the "S" position also activates the FTC function at the same time).

NOTES AND WARNINGS

- When performing the procedure, at any time you can cancel it by keeping the ■ and ▼ keys pressed simultaneously for 4 seconds. Otherwise, do not press any key and wait 60 seconds for the motor to perform 6 movements.

1				2				3				→ 4
Move the awning to a half-way position.				Hold down the button and				count 2 movements;				
								release the button.				
Hold down the button and				count 3 movements;				release the button.				
												→ 6
Hold down the button and				count 4 movements;				release the button.				
Hold down the button and				count 3 movements;				release the button.				

C C.13 - "FTA" Function: tensioning the canvas when open awnings fitted with a manual hooking and unhooking mechanism of the awning when opening



- **Warning!** – The FTA function cannot be activated if the FRT or FTC function has already been activated. If the LOWER limit switch has been set to AUTOMATIC, the FTA function cannot be activated.

- This function is useful to eliminate the unsightly depression of the canvas that may form when the awning is open. The function may be used exclusively in awnings that let you lock the canvas in the open position through a mechanism manually attachable and detachable by the user (e.g. the bolts in stationary canopies, roller awnings with hooks, fixed arm awnings, etc). With the lock mechanism inserted and this function activated, during a closing manoeuvre the motor stops the awning in correspondence to the lock mechanism, leaving the canvas taut. To unlock the awning, first send a short Down command to manually remove the lock and finally send an UP command to the awning.

NOTES AND WARNINGS

- The "FTA" function may be programmed exclusively after having programmed the limit switch heights "0" and "1".
- When performing the procedure, at any time you can cancel it by keeping the and keys pressed simultaneously for 4 seconds. Otherwise, do not press any key and wait 60 seconds for the motor to perform 6 movements.

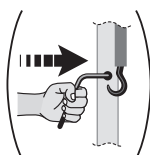
1	2	3	→ 4
Move the awning to a half-way position.	Hold down the button and	count 2 movements;	release the button.

4	5	...
Hold down both buttons...	count 4 movements;	release the buttons.

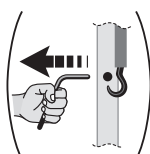
Select one of the following options and execute it:

- **option A** – To activate the "FTA" function.
- **option B** – To deactivate the "FTA" function.

option – A	5	end
Hold down the button and	count 3 movements.	release the button.



option – B	5	end
Hold down the button and	count 5 movements.	release the button.



C C.14 - Programming the movement (Ascent or Descent) that the motor must perform automatically when it starts to rain (ref. paragraph 6.1.2)



NOTES AND WARNINGS

- When performing the procedure, at any time you can cancel it by keeping the **■** and **▼** keys pressed simultaneously for 4 seconds. Otherwise, do not press any key and wait 60 seconds for the motor to perform 6 movements.

1	2	3	→ 4
Move the awning to a half-way position.	Hold down the button and	count 2 movements	release the button.

4	5	...
Hold down the button and	count 2 movements	release the button.

Programme the movement that the motor must perform automatically when it starts to rain, by selecting one of the following option:

- option A** – to programme the Raising of the awning.
- option B** – to programme the Lowering of the awning.

option – A	5	end
Hold down the button and	count 3 movements	release the button.

option – B	5	end
Hold down the button and	count 3 movements	release the button.

5 WARNINGS FOR ORDINARY USE OF THE MECHANISM

5.1 - Maximum continuous work cycle

In general, the motors in the "NEXT" line were designed for residential use and therefore for discontinuous use. The motor is designed for residential use, in other words, for intermittent service. In case of extended use, the system limits the motor speed (to the minimum speed) to protect the motor against excessive overheating; in this way, the continuous usage time increases, allowing extended use until the thermal protection device intervenes.

5.2 - Commanding partial opening/closing of the roller shutter

The table shown below summarises the keys to be pressed on the transmitter to send the main opening/closing commands of the roller shutter. These functions are described in detail in the following paragraphs.

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
i	Provides feedback on the position
SLIDER (FAST TOUCH)	Change of position
SLIDER + (3 sec)	Increases the motor speed (the motor confirms that the command has been received with a brief movement)
SLIDER • (3 sec)	Normal motor speed (the motor confirms that the command has been received with a brief movement)
SLIDER - (3 sec)	Decreases the motor speed (the motor confirms that the command has been received with a brief movement)
■ (STOP) + ▼ (DOWN)	Positioning at 10% of the path completed before the 0-UPPER limit switch is reached
▲ (UP) + ▼ (DOWN)	Positioning at 50% of the path (first pre-set position H)

5.2.1 - Commanding the "H" position

In general, to command the partial opening/closing of the awning (or shutter), press the key associated with the partial height during programming (for more information, read the procedure **B.6**, **A.6** or **C.9**). If the transmitter has only three keys and only one "H" height is memorised, simultaneously press keys ▲ and ▼ to recall this height. If, during the installation phase, the "H" position was not programmed, it will assume the factory value corresponding to the point located between the UPPER and LOWER limit switches.

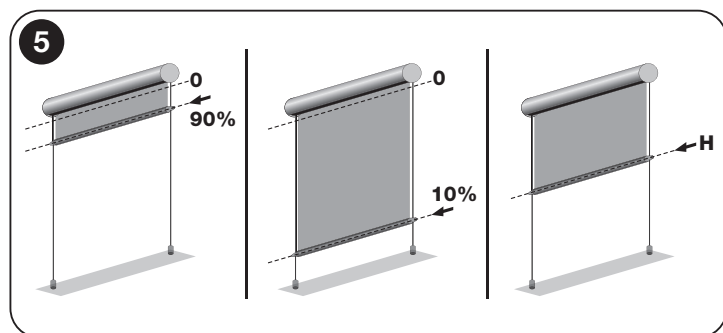
5.2.2 - Commanding the "90%" and "10%" positions

Two additional partial positions are available (**fig. 5**), factory-set to the following values:

- "90%" position = 90% of the path completed before the 0-UPPER limit switch is reached (90% of the awning rolled up);
- "10%" position = 10% of the path completed before the 0-UPPER limit switch is reached (10% of the awning rolled up).

To recall the "90%" position, press buttons ▲+■ (UP + STOP).

To recall the "10%" position, press buttons ▼+■ (DOWN + STOP).



5.3 - The user can vary the awning position with a transmitter equipped with a "slider" surface

It is equally important to be able to set the automation's stop position in relation to the circumstances (sunshine, rain, etc.).

If the automation is controlled with a Nice transmitter equipped with a "slider" surface (e.g. P1V, etc.), the stop position of the automation can be varied as follows: the top of the "slider" moves the automation upwards (as far as the upper limit switch position); the bottom of the "slider" moves the automation downwards (as far as the lower limit switch).

5.4 - "Automatic limit switch update" function

Caution! – This function is only available if the limit switches have been programmed with the Automatic (paragraph **B.7**, **A.7** or **C.7 / C.8**) or Semi-automatic procedure (paragraph **B.8**, **A.8** or **C.9**). This function cannot be disabled.

Periodically the function activates automatically during an up manoeuvre: the roller shutter impacts against the box or other mechanical stop updating the position of the limit switch (Up "0" limit switch). Over time, this compensates for deformations in the structure due to wear and thermal cycles, so that the roller shutter always stops precisely at the Up limit position.

6 OPTIONAL ACCESSORIES

6.1 - Climate sensors for wind, sun, rain

WARNING! – The climate sensors must not be considered safety devices capable of eliminating failures in the rolling shutter caused by rain or strong wind; in fact a mere power outage will prevent the awning from moving. Consequently, these sensors must be considered components of an automation device for protecting the awning. The manufacturer declines all liability for any material damages caused by atmospheric events not detected by the sensors.

6.1.1 - Definitions and conventions

- **Manual "Sun On" Command** = enables reception, by the motor, of automatic commands transmitted by the "Sun" sensor if present in the installation. When reception is enabled, the user can send manual commands at any time: these override the automatic operation of the automated device.
- **Manual "Sun Off" Command** = disables reception, by the motor, of automatic commands transmitted by the "Sun" sensor if present in the installation. When the reception is disabled, the automated device operates exclusively with the manual commands sent by the user. The "Wind" and "Rain" sensors cannot be disabled because they protect the automated device from these atmospheric phenomena.
- **"Above-threshold" intensity of sun/wind** = condition where the intensity of the atmospheric phenomenon corresponds to high values above the set threshold.
- **"Below-threshold" intensity of sun/wind** = condition where the intensity of the atmospheric phenomenon corresponds to low values below the set threshold.
- **"Wind protection"** = a condition in which the system inhibits all the awning opening commands because of the over threshold wind intensity.
- **"Presence of rain"** = a condition in which the system detects the presence of rain, with respect to the previous condition of "absence of rain".
- **"Manual command"** = UP, DOWN or Stop command sent by the user by means of a transmitter.

6.1.2 - Behaviour of the motor in the presence of climate sensors

Behaviour of the automated device when there is a Sun sensor: fig. 6

When the intensity of the sunlight exceeds the set threshold for at least 2 minutes, the motor automatically lowers the awning. When the intensity of the sunlight goes below the specified delay threshold and remains there for at least 15 minutes, the motor automatically raises the awning. **N.B.** – the delay threshold is about 50% of the value for the specified sunlight threshold.

Momentary reductions in sunlight intensity, that last a short time or less than 15 minutes, do not affect the overall cycle. Manual commands sent by the user are in addition to the automatic commands.

The factory setting for the solar sensor setpoint is level 3 (= 15 Klux).

Behaviour of the automated device when there is a Rain sensor: fig. 7

The rain sensor recognises two states: "absence of rain" and "presence of rain". When the motor receives the message "presence of rain", it automatically activates the manoeuvre (Up or Down) that the installer has programmed for this condition(*). The rain sensor is disabled automatically when it detects the absence of rain for at least 15 minutes.

(*) - If it starts to rain, the system automatically commands the awning to be raised (factory setting).

The automatic rain function is deactivated after the absence of rain has been verified for at least 15 minutes. In this case, the manual commands are always active and are in addition to the automatically-generated command. If a manual command is sent that is contrary to the previous automatic command, the system carries out the manual command and at the same time starts a 15 minute timer that regenerates the programmed automatic command once this time elapses (e.g. the closure of the awning).

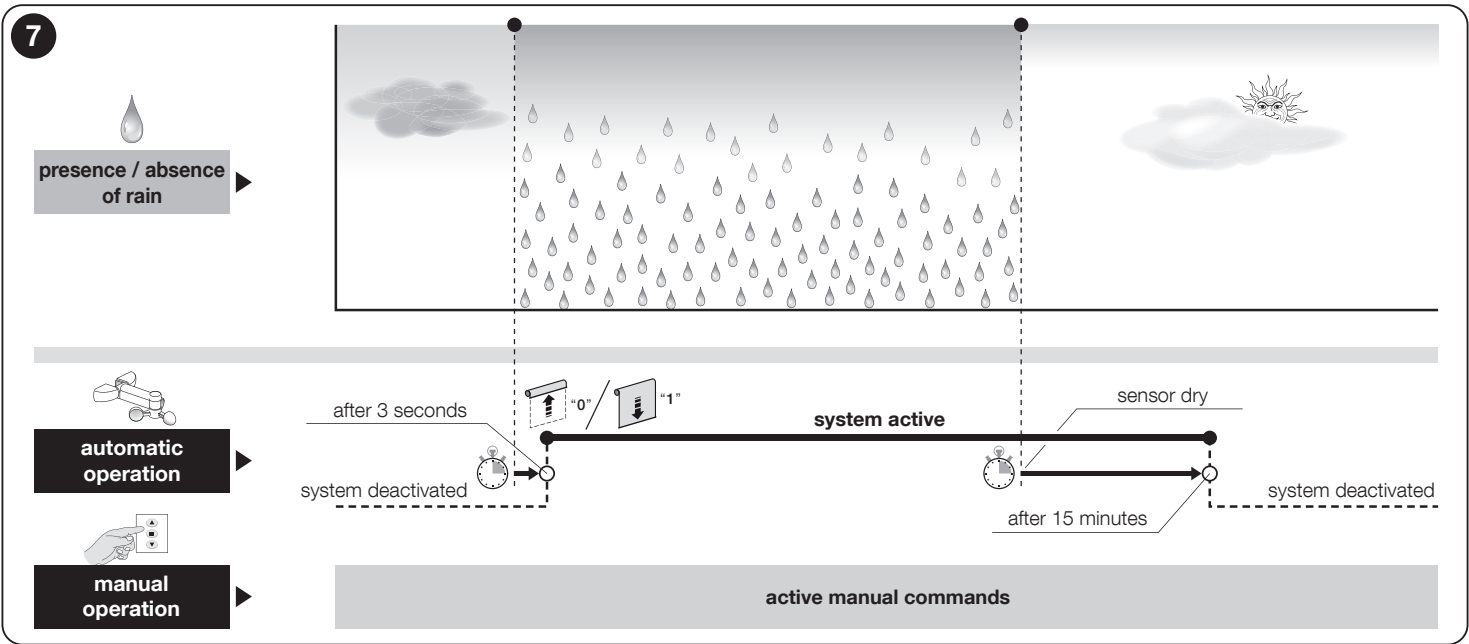
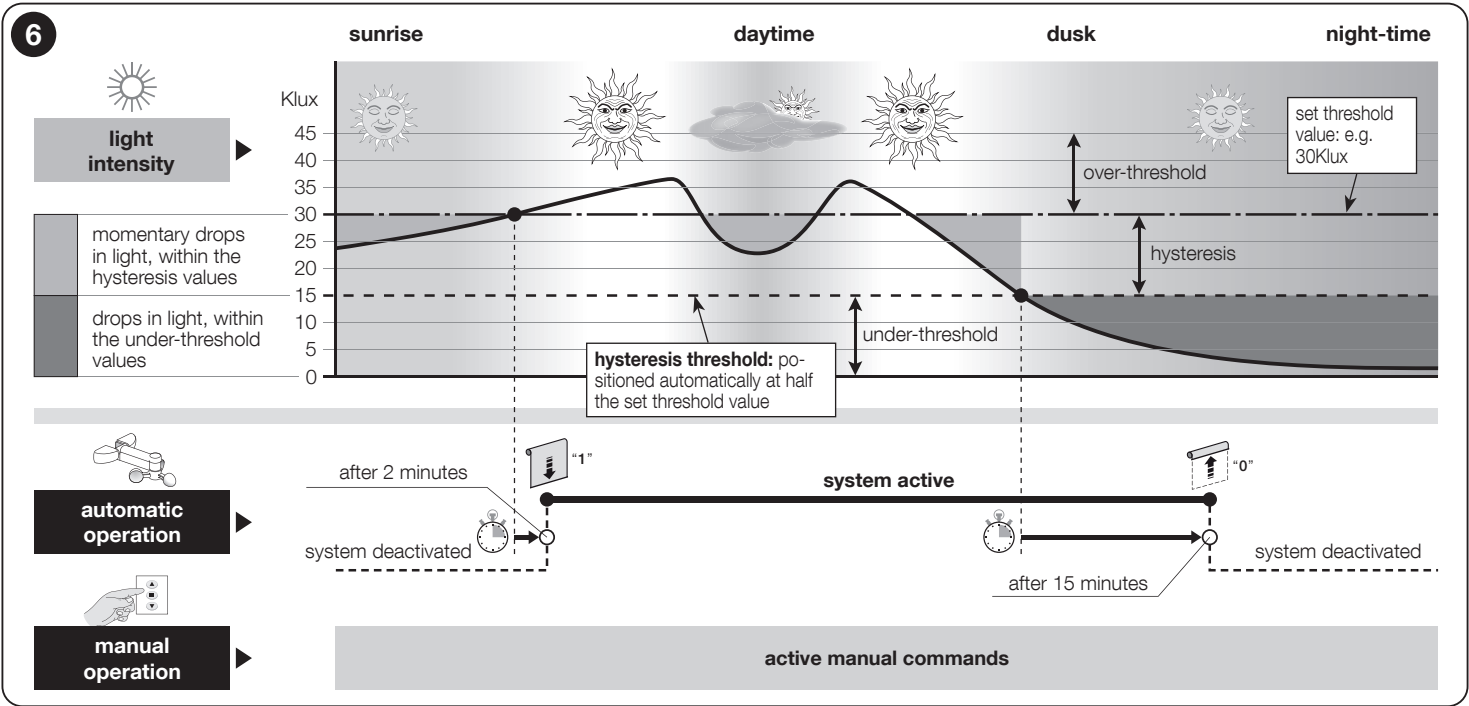
Example: 1) The awning is open. 2) It starts raining. 3) The awning closes. 4) The user forces it to open after a few moments. 5) The awning opens again. 6) 15 minutes after being opened, the awning closes again automatically. 7) It stops raining for at least 15 minutes. 8) The user again opens the awning. 9) The awning remains open.

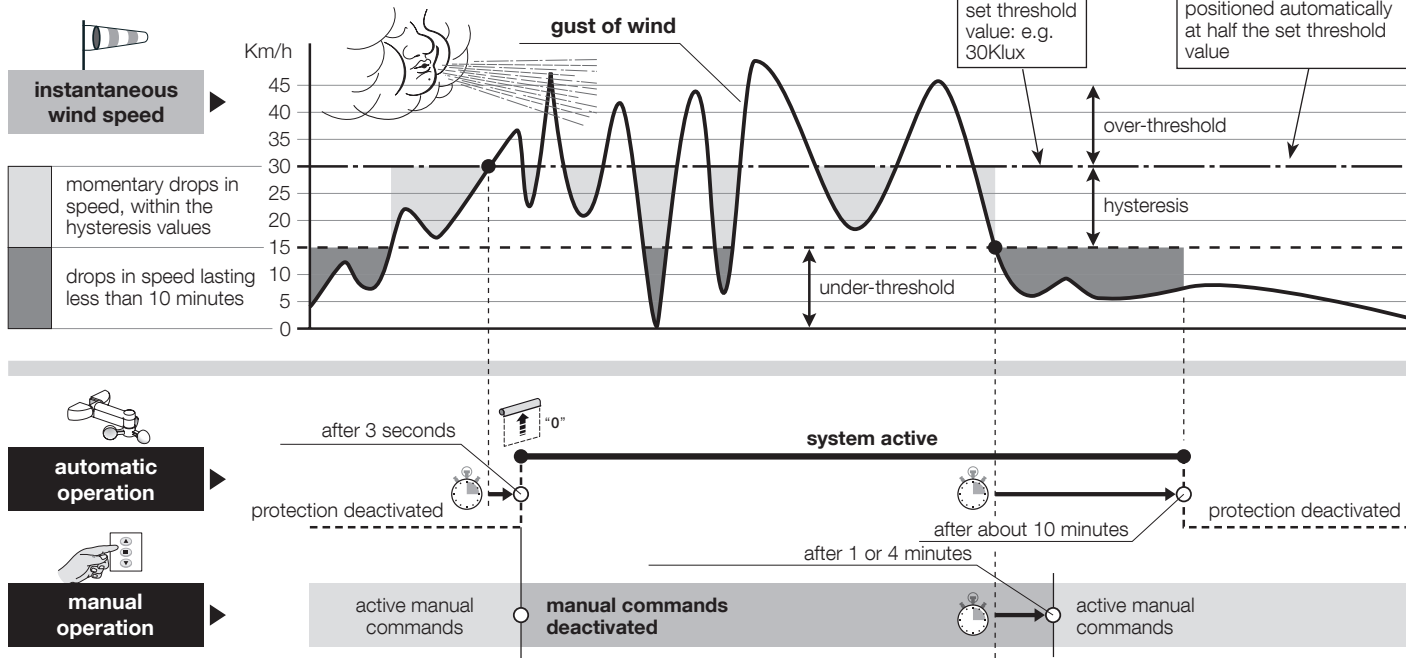
Behaviour of the automated device when there is a Wind sensor: fig. 8

When the intensity of the wind exceeds the set threshold, the system activates the wind protection and automatically raises the awning. With the wind protection activated, the manual commands are deactivated and it is not possible to lower the awning. If a command is sent, the automation makes two short movements to signal the intervention of protection.

At the end of the barring period, the manual commands are reactivated and after 10 minutes, automatic operation is restored.

For motors configured in TWO-WAY communications mode: in the event of a malfunction of the climate sensor (low batteries or failure) when a command is sent, the automation will make 4 short movements before executing the required command.





What to do if... (troubleshooting guide)

- ❑ **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 characteristics of this manual by measuring the electricity between the "common" wire and the electrical phase wire supplied with current. Finally, try to supply the opposite electrical phase.
- ❑ **When sending a Raise command, the motor does not start:**
This can happen if the roller shutter is near the Upper limit switch ("0"). In this case you must lower the roller shutter a little bit and give the Raise command again.
- ❑ **The system operates in the emergency condition with an operator present:**
 - Check to see if the motor has undergone a significant thermal or mechanical shock.
 - Make sure each part of the motor is still in good condition.
 - Perform the deletion procedure (procedure **B.16**, **A.15** or **C.4**) and adjust the limit switches again.

Disposal of the product

As in installation operations, disposal operations must be performed by qualified personnel at the end of the product's lifespan.

The product is made of various types of materials: some of them may be recycled, while others must be scrapped. Find out about recycling and disposal systems in use in your area for this product category.

Warning! – Some parts of the product may contain polluting or hazardous substances which, if released to the environment, may cause serious damage to the environment or to human health.

As indicated by the symbol appearing here, the product may not be disposed of with other household wastes. Separate the waste into categories for disposal, according to the methods established by current legislation in your area, or return the product to the retailer when purchasing a new version.

Warning! – Local legislation may impose heavy fines in the event of legal disposal of this product.



The product's packaging materials must be disposed of in full compliance with local regulations.

Technical Characteristics

■ Frequency 433.92 MHz ■ Power emitted: 0 dBm ■ Radio coding: "BD".

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.

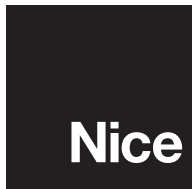
Simplified EU declaration of conformity

Hereby, NICE S.p.A., declares that the radio equipment type NX MZ SOLAR 2017 SH BD, 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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