Nice

NX STAR MZ 2017 SH

Tubular Motor

EN - Instructions and warnings for installation and use

Nice

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

ATTENTION **Important safety instructions. Follow all instructions as improper installation may cause serious damage**

ATTENTION **Important safety instructions. It is important for you to comply with these instructions for your own and other people's safety. Keep these instructions**

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

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

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

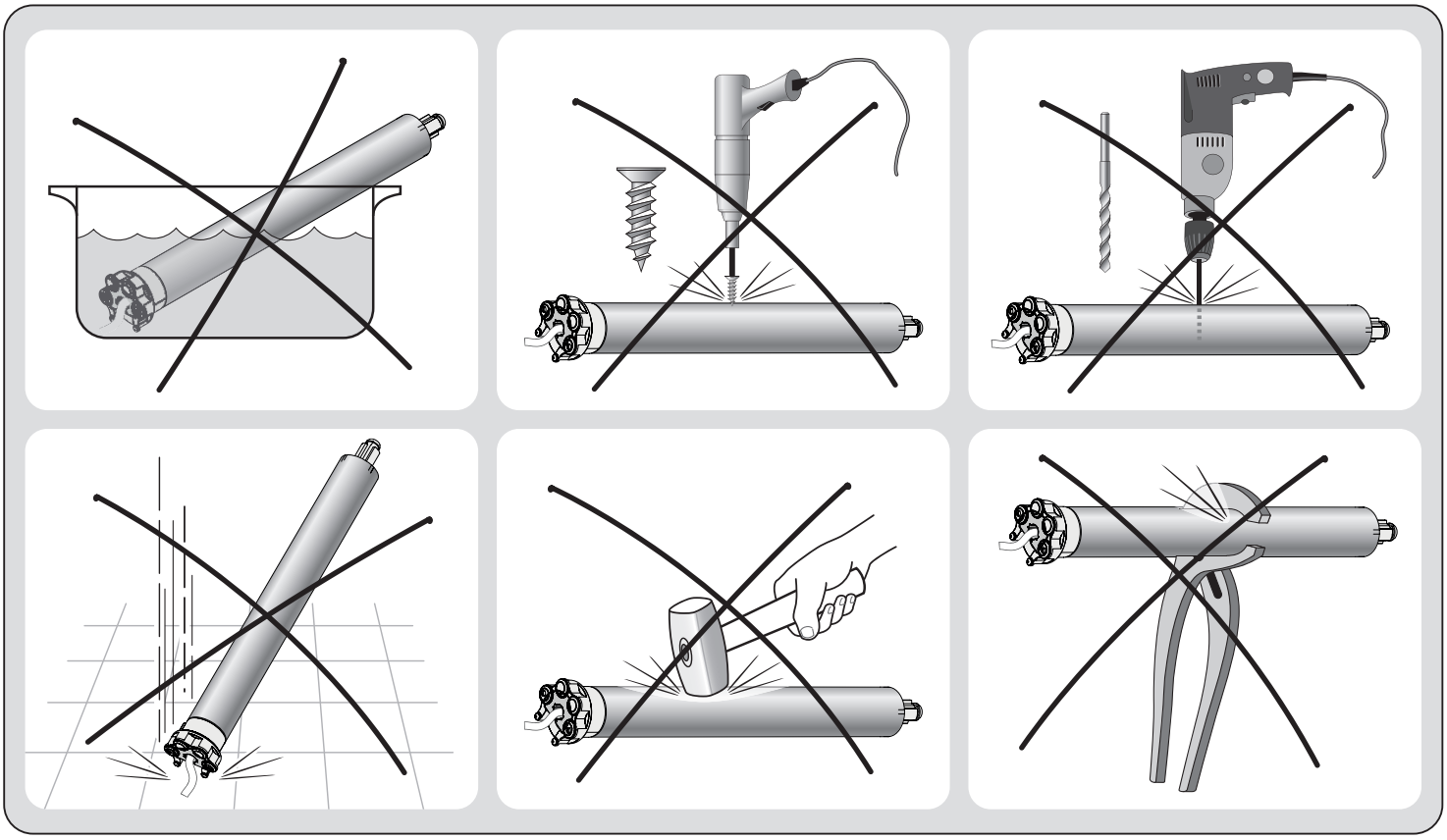
ATTENTION In order to avoid any danger from inadvertent resetting of the thermal cut-off device, this appliance must not be powered through an external switching device, such as a timer, or connected to a supply that is regularly powered or switched off by the circuit

- Provide a disconnection device (not supplied) in the plant's power supply grid, with a contact opening distance permitting complete disconnection under the conditions dictated by overvoltage category III
- Handle the product with care during installation, taking care to avoid crushing, denting or dropping it, or allowing contact with liquids of any kind. Keep the product away from sources of heat and naked flames. Failure to observe the above can damage the product, and increase the risk of danger or malfunction. Should this happen, stop installation immediately and contact Customer Service
- The manufacturer assumes no liability for damage to property, items or persons resulting from non-compliance with the assembly instructions. In such cases the warranty for material defects is excluded
- The weighted sound pressure level of the emission A is lower than 70 dB(A)
- Cleaning and maintenance to be carried out by the user must not be carried out by unsupervised children
- Before working on the system (maintenance, cleaning), always disconnect the product from the mains power supply
- Check the system periodically, in particular all cables, springs and supports to detect possible imbalances, signs of wear or damage. Do not use, if repairs or adjustments are necessary, since installation failure or an incorrectly balanced automation may cause injury
- The packing materials of the product must be disposed of in compliance with local regulations
- There must be at least 0.4 m between the driven parts and any fixed elements
- The wording on the tubular motors can be covered after assembly
- Motor with **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 form which they can be accessed

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

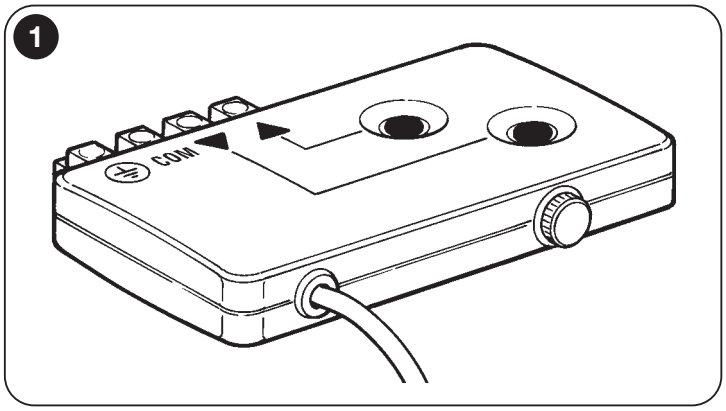


1 PRODUCT DESCRIPTION AND INTENDED USE

This product is a tubular motor for automating 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:

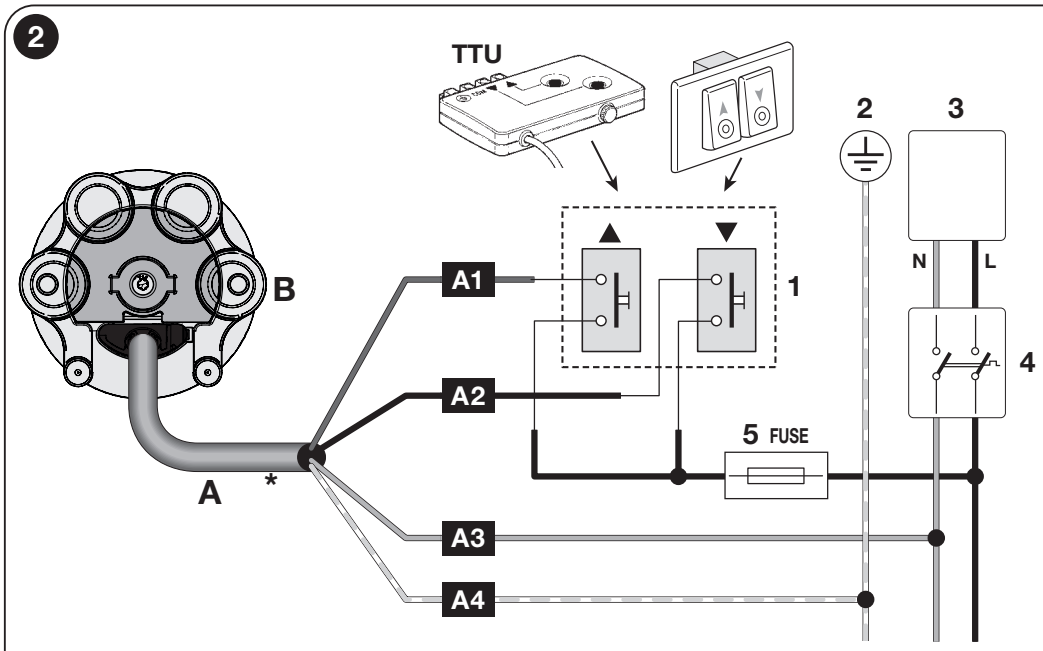
- it is mains powered (see the motor's nameplate ratings);
- it installs inside the winding roller; the part of the motor that protrudes from the roller (electronic head) mounts to the ceiling or wall with brackets (not included);
- it has a built-in control unit with encoder technology that electronically controls the movement and precision of the limit switches;
- it can be programmed with a wall-mounted button panel or with a TTU programmer (**fig. 1**). These accessories are not included;
- it can be commanded with a cabled wall-mounted push-button panel (**fig. 2**). We recommend the use of a fixed or momentary switch with interlocked push buttons (accessory not included in the package);
- 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;
- it moves roller shutters of different weights at the same speed;
- the up and down speeds are the same;
- it features acceleration and deceleration, respectively at the beginning and end of the movement;
- it features a security system that detects the presence of an obstacle along the roller shutter's path, immediately blocking the movement in progress and performing a brief inversion of movement. The same system is automatically activated at the end of the Up movement (only if the upper limit switch "0" consists of a box or other mechanical stop), to mitigate the impact of the roller shutter against the housing and loosen the tension exerted by the motor on the canvas, when the roller shutter is stationary at the upper limit switch "0"
- 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).



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**" (Ø = 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.



LEGEND	
A	Power cable
	A1 = **Brown** wire
	A2 = **Black** wire
	A3 = **Blue** wire
	A4 = **Yellow-green** wire
B	Electronic motor head
1	Connection of a two-button control panel. **Note** – The TTU programmer must only be used to program the motor.
2	Earth connection
3	Connection to the mains (see the motor's nameplate ratings)
4	Motor mains power disconnector
5	Fuse

*** THE POWER CABLE IS REMOVABLE (fig. 3-h)**

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 - Installing a wall-mounted push-button panel

Install a push-button command panel on the wall, observing the following warnings:
– for correct use of the automated system you need to install a **push button panel with 2 buttons**: one for Up and one for Down;
– to use the automation, once installation has been completed you can use a push-button panel with any mechanical operation of the buttons, **except for the operation that allows you to simultaneously press the two buttons**;
– for the control of a single motor, only a single push-button panel can be installed;
– for the control of more than one motor connected in parallel (max. 8) only a single push-button panel can be installed;
– for the confidentiality of the automated system, it is recommended that you install the push button panel in a place not accessible to unauthorized persons;
– install the push button panel in a place from where you can see the roller shutter;
– install the push button panel away from the moving parts of the roller shutter;
– install the push button panel on the side of the roller shutter where there is the electrical cable from the motor and the power cable from the electricity mains (**fig. 3-i**);
– install the push button panel at a height of at least 1.5 m from the floor.

3 ELECTRICAL CONNECTIONS AND FIRST POWER UP

3.1 - Connecting the motor to the power supply and a push button control panel

To connect the motor to the power supply and a push button control panel **(*)**, refer to **fig. 4**. The connection cable has four wires:

CABLE "A" (refer to **fig. 2**)		
Wire	**Colour**	**Connection**
A1	**Brown**	Electric phase of up/down.
A2	**Black**	Electric phase of up/down.
A3	**Blue**	Common (usually connected to Neutral).
A4	**Yellow-Green**	Earth (equipotential protection connection).

(*) Note – Since the subsequent motor installation and programming operations must be done with the "TTU" Programmer (**fig. 1**), it is recommended that you make the final connection of the push button panel only after these operations.

WARNINGS:

• Incorrect connections can cause faults or hazards; therefore ensure that the instructions in this paragraph are strictly observed.
• The electrical connections must be made only after installing the motor and the compatible accessories required.
• The motor must be powered by a permanent connection to the mains.
• The power cable is connected to the motor via a connector; this is removable (**fig. 3-h**) and allows the replacement of the cable (refer to the "Nice Screen" product catalogue, also available on the website www.niceforyou.com).

3.2 - Installation of the protective devices inside the electricity power network

In accordance with the electrical installation regulations, the network that powers the motor needs to have a protection device against short-circuits and a disconnection device from the mains (the two devices are not present in the package). **Caution! – The disconnection device must have an opening distance between contacts, that allows complete disconnection of the power supply, under the conditions laid down in the overvoltage category III.**
The disconnection device must be placed in a position that is visible from the automated system and, if it is not visible, there must be a system for preventing accidental or unauthorized reconnection with the power grid so as to avoid any possible hazard.

3.3 - Mapping the Up and Down movements to their respective command buttons (▲ and ▼)

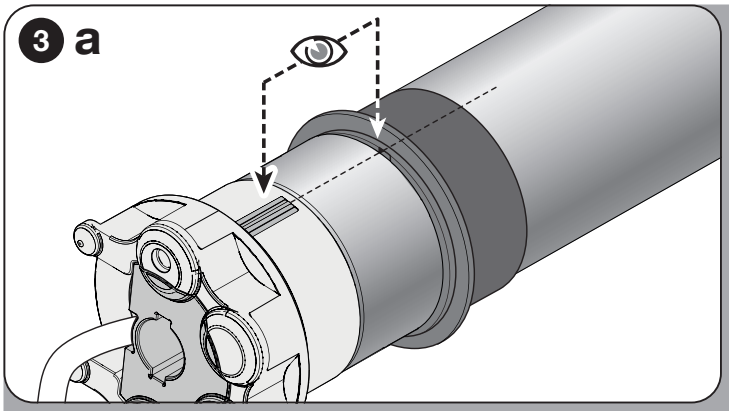
After completing the connections, supply power to the motor and carry out some movements **(*)** to verify if the Up and Down movements of the roller shutter are correctly matched to their respective symbols ▲ and ▼ found on the command buttons. If not, change the connections on the push button panel by reversing the **Brown** and **Black** wires.

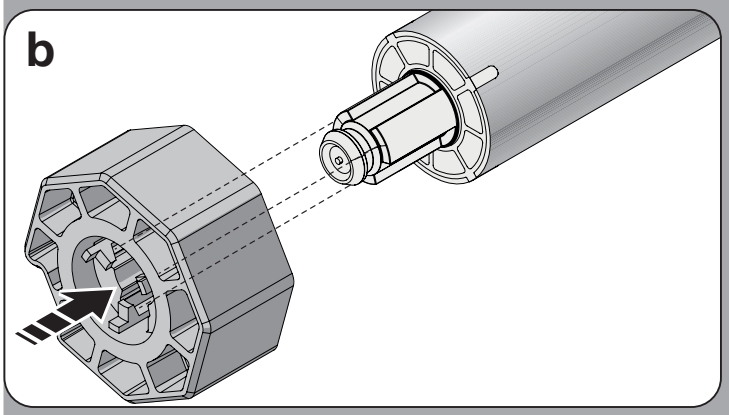
(*) Note – When the Up and Down limit switches have not yet been programmed, the roller shutter will never stop automatically but will interrupt its movement only when the control button is released.

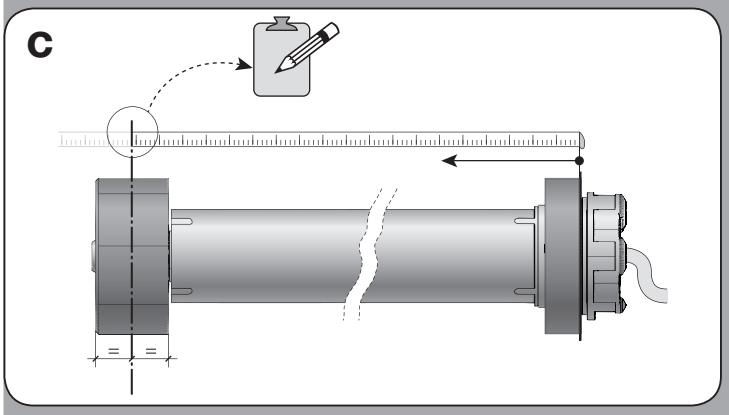
4 PROGRAMMING AND ADJUSTMENTS

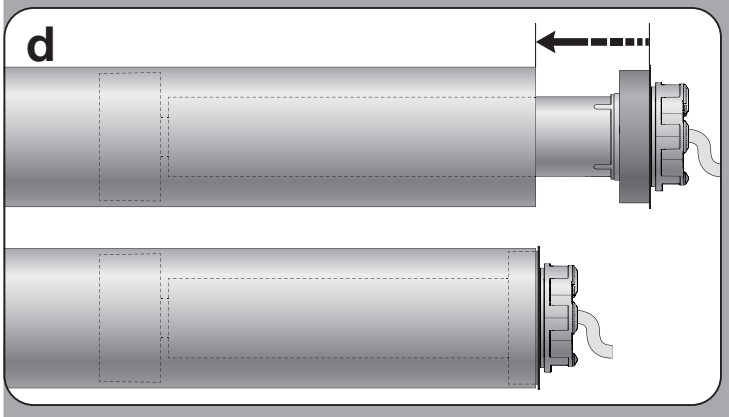
4.1 - General warnings about performing the procedures

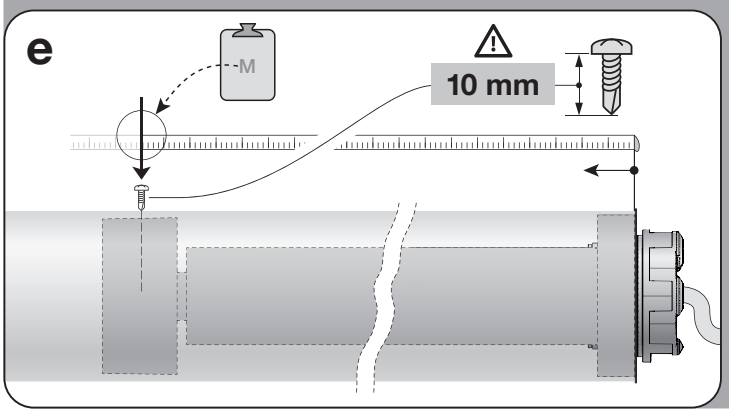
– All the programming and adjustment operations must be carried out with the Nice TTU programmer (**Fig. 1**). Alternatively you can also use a two-button push button panel, as long as this allows you to press the two buttons at the same time and allows the buttons to return to their previous position, when they are released.
– The limit switch must be adjusted after installing the motor in the roller shutter and connecting it to the power supply.
– Before starting any programming, move the roller shutter to an intermediate position, away from the Up and Down limit switches.
– Scrupulously comply with the time limits indicated in the procedures.
– During programming the motor performs a certain number of **brief movements**, as a "response" to the command sent by the installer. Count these movements

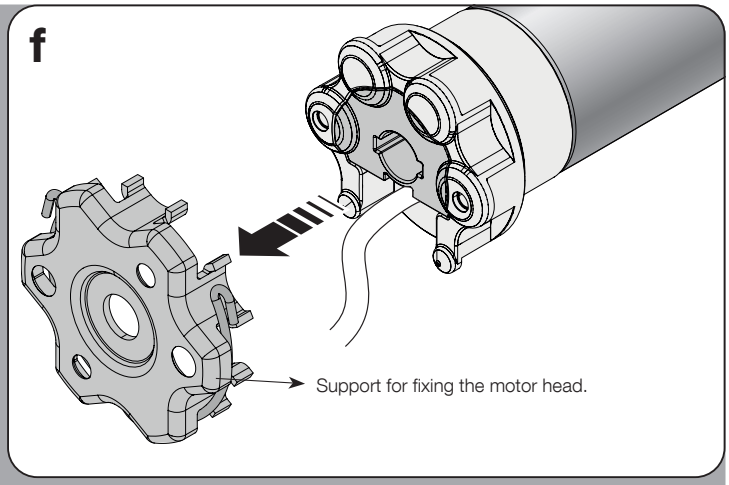

3 a

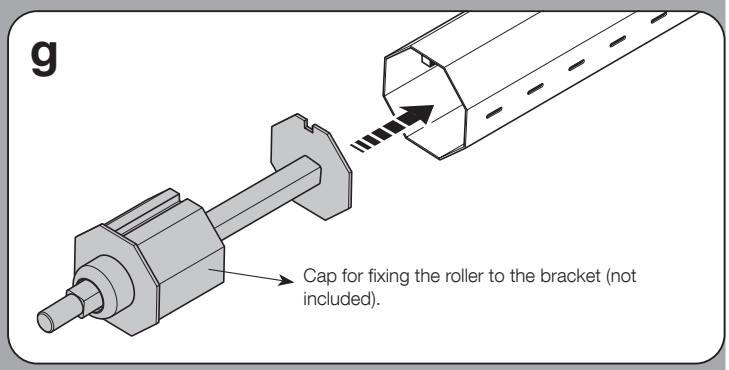

b

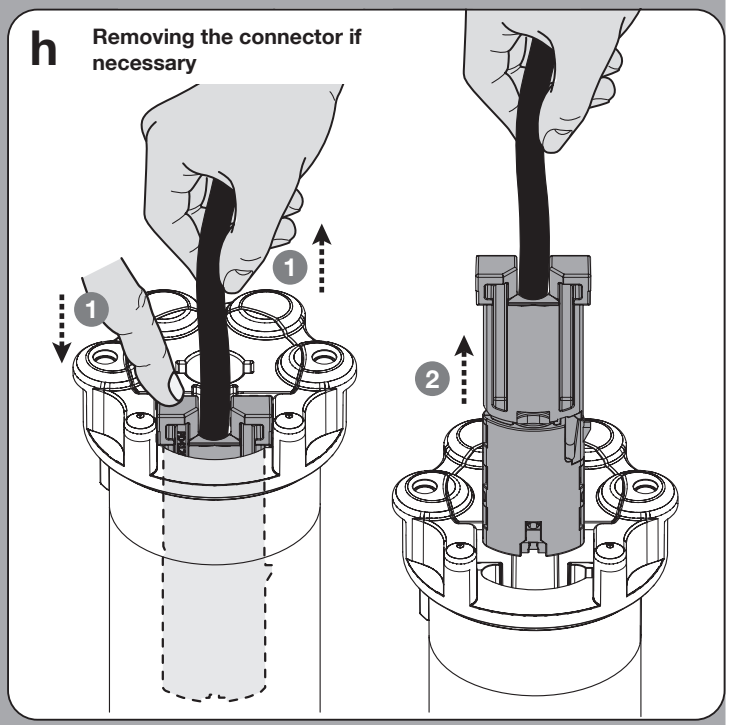

c

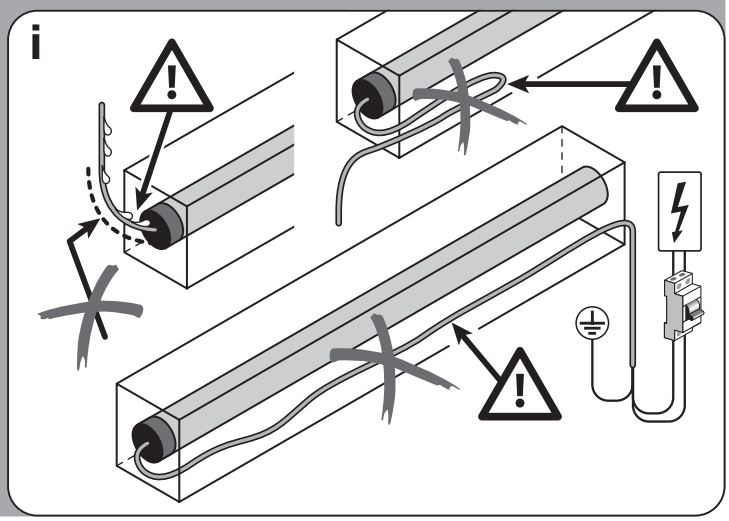

d


e
M
10 mm


f
Support for fixing the motor head.


g
Cap for fixing the roller to the bracket (not included).


h
Removing the connector if necessary
1
1
2

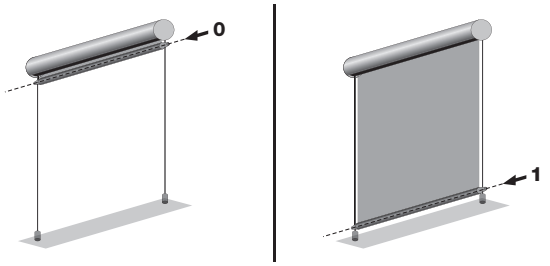

i

regardless of their direction. The movements are indicated in the procedures with a number followed by the symbol ↑↓ .

– The electronic system that controls the roller shutter's movement at all times can automatically stop the motor when the roller shutter reaches a certain position (or "height") programmed by the installer. The positions are shown in **fig. 4** as follows:

position "0" = UPPER limit switch (roller shutter completely retracted);
position "1" = LOWER limit switch (roller shutter completely extended).

4



4.1.1 - 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**.

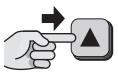
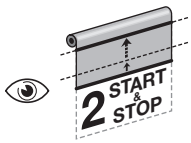
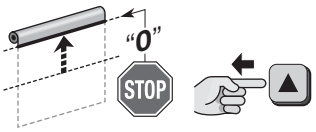
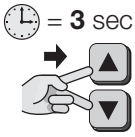
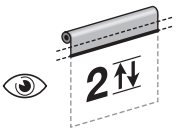
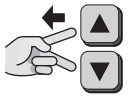
TABLE A – Movement signals

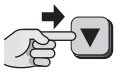
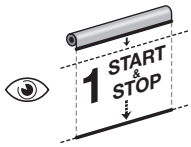
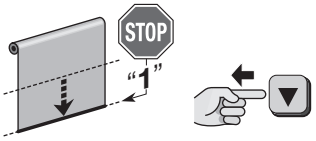
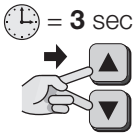
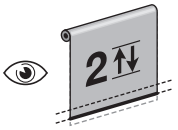
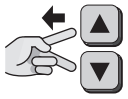
No. of MOVEMENTS	Meaning
0 movements (START & STOP)	= 2 limit switches programmed
1 movement (START & STOP)	= 1 limit switch programmed
2 movements (START & STOP)	= no limit switch programmed

A.1 - 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.**
- **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).
- 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.

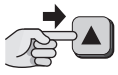
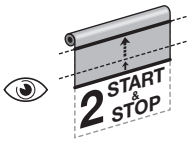
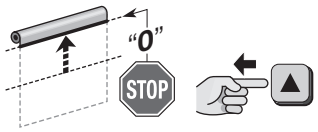
1			**2** → **3**		
Command an UP manoeuvre → 					
Hold down the button ... (**Note** - if the movement is interrupted briefly 2 times this means that no limit switch positions have been memorised).	... count 2 START & STOP movements ...	... release the button as soon as the roller shutter reaches **position "0"** (**UP** limit switch).	Hold down both buttons...	count 2 movements;	release them after **3 seconds**.

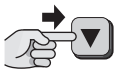
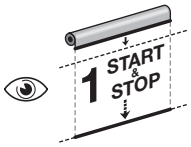
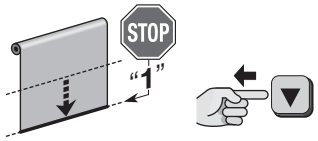
3			**4** **end**		
Command a DOWN manoeuvre → 					
Hold down the button ... (**Note** - if the movement is interrupted briefly 1 time this means that only one limit switch position has been memorised).	... count 1 START & STOP movement ...	release the button as soon as the roller shutter reaches **position "1"** (**DOWN** limit switch).	Hold down both buttons...	count 2 movements;	release them after **3 seconds**.

A.2 - AUTOMATIC Programming of the UP (“0”) and DOWN (“1”) limit switches

NOTES AND WARNINGS

- **Use this procedure only for roller shutters equipped with mechanical locking devices.**
- **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).
- 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.

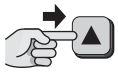
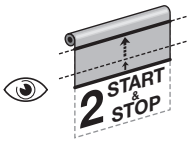
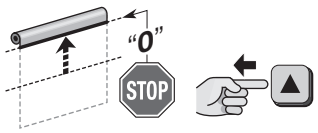
1			→ **2**
Command an UP manoeuvre →			
Hold down the button ... (**Note** - if the movement is interrupted briefly 2 times this means that no limit switch positions have been memorised).		... count 2 START & STOP movements ...	... lift the roller shutter up to the upper stop. The motor will disengage automatically once the stop is reached.

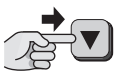
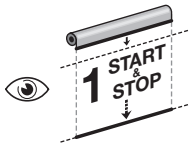
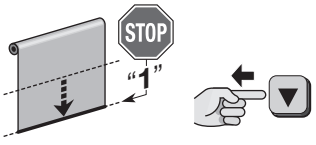
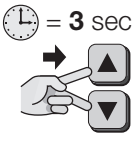
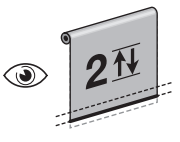
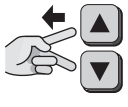
2			**end**
Command a DOWN manoeuvre →			
Hold down the button ...		... count 1 START & STOP movement ...	... lower the roller shutter down to the lower stop. The motor will disengage automatically once the stop is reached.

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

NOTES AND WARNINGS

- **Use this procedure solely for roller shutters with mechanical Up “0” limit switch stop.**
- **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).
- Once the limit switches have been programmed, the Up movement will be limited by the impact of the roller shutter against the mechanical locking device (box) present in the Up limit switch “0”. Periodically, the height of this limit switch will be automatically updated by the “Automatic limit switch update” function (paragraph 5.1). 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 manoeuvre →			
Hold down the button ... (**Note** - if the movement is interrupted briefly 2 times this means that no limit switch positions have been memorised).		... count 2 START & STOP movements ...	... lift the roller shutter up to the upper stop. The motor will disengage automatically once the stop is reached.

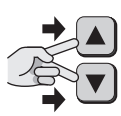
2			**3**		**end**
Command an DOWN manoeuvre →						
Hold down the button ... (**Note** - if the movement is interrupted briefly 1 time this means that only one limit switch position has been memorised).		... count 1 START & STOP movement ...	release the button as soon as the roller shutter reaches **position “1”** (**DOWN** limit switch).	Hold down both buttons...	count 2 movements;	release them after **3 seconds**.

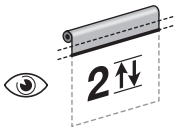
A.4 - Adjusting the motor's sensitivity to obstacles

NOTES AND WARNINGS

- Use this procedure to activate, adjust or deactivate the safety system that: **a**) detects the presence of an obstacle along the travel of the roller shutter; **b**) reduces the motor tension on the roller shutter when it is stationary at the Upper limit switch "0" (only if this limit switch has the box or other mechanical stop and the limit switches have been memorised in automatic or semi-automatic mode).
- This procedure adjusts **the limit** of the traction force that the motor can exert on the roller shutter in an attempt to release it, when it is stopped suddenly by an obstacle or friction.
- There are four sensitivity levels.
- The maximum allowed sensitivity level in order to have a reliable application depends on the type, weight and dimensions of the roller shutter.
- After changing the setting, the automation must complete AT LEAST three complete cycles in order to apply the chosen sensitivity level.

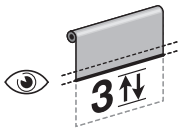
1 → 2


Hold down both buttons...

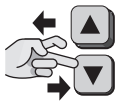


count 2 movements;

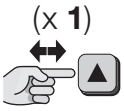
wait without releasing the two buttons...



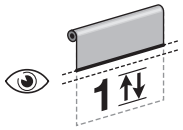
count 3 movements;


immediately release only button ▲; button ▼ must remain pressed.

2



Press and release the key.

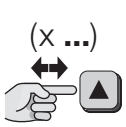


wait for the motor to complete 1 movement;

3 continues →

Select the desired option and program it as follows →

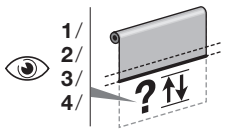
→ 3



4 OPTIONS:

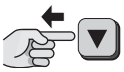
x 1 = **minimal** sensitivity
x 2 = **standard** sensitivity **(**Default**)**
x 3 = **maximum** sensitivity
x 4 = DEACTIVATED

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



wait for the motor to perform a number of **movements** equal to the number of pulses entered;

4 end


also release button ▼.

A.5 - "FRT" Function: automatic tensioning of the canvas when opening awnings that are not fitted with a mechanism to lock the awning when opening

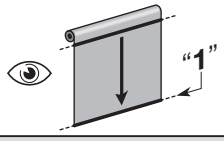
- **Warning! – The FRT function cannot be activated if the FTC or FTA function has already been activated.**
- This function is useful to eliminate the unsightly depression of the canvas that may form when the awning is open. It is activated by programming position "2" near the limit switch "1". The 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.

NOTES AND WARNINGS

- The "FRT" function may be programmed exclusively after having programmed the limit switch heights "0" and "1".
- **Before starting the procedure, the motor must be brought to the low end stop '1'.**
- Position "2" must be a point between limit switch "1" and limit switch "0".

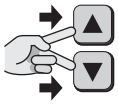
1

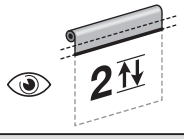

Hold down the button.



Bring the roller shutter to the **DOWN** limit switch.

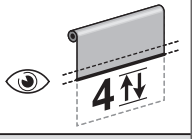
2 continues →


Hold down both buttons...



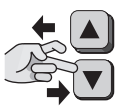
count 2 movements;

wait without releasing the two buttons...

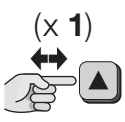


count 4 movements;

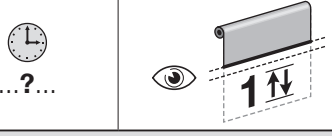
→ 2


immediately release only button ▲; button ▼ must remain pressed.

3



Press and release the key.

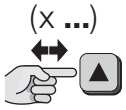


wait for the motor to complete 1 movement;

4 continues →

Select the desired option and program it as follows →

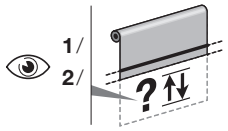
→ 4



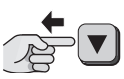
2 OPTIONS:
1 press = FRT height setting function activation
2 presses = FRT deactivated

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

wait for the motor to perform a number of **movements** equal to the number of pulses entered;



5 → 6

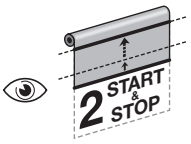


also release button ▼.

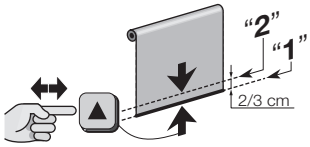
6

Command an UP manoeuvre →

Hold down the button ... (**Note** - if the movement is interrupted briefly 2 times this means that no limit switch positions have been memorised).

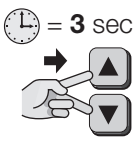


... count 2 START & STOP movements ...

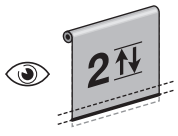


release the button as soon as the roller shutter reaches **position "2"** ("1" **DOWN** limit switch).

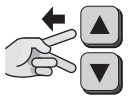
7 **end**



Hold down both buttons...



count 2 movements;



release them after **3 seconds**.

A.6 - "FTC" Function: tensioning the canvas when open awnings fitted with an automatic hooking and unhooking mechanism of the awning when opening

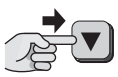
- **Warning! – The FTC function cannot be activated if the FRT or FTA function has already been activated. If the LOWER limit switch has been set to AUTOMATIC, the FTC function cannot be activated.**

- 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 A.11.1 and adjust them again with the manual procedure (A.1, if the awning does not have a box), or with the semiautomatic procedure (A.37, 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).

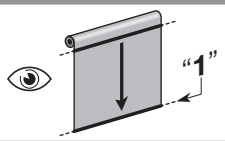
NOTES AND WARNINGS

- **Before starting the procedure, the motor must be brought to the low end stop '1'.**

1

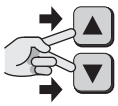


Hold down the button.

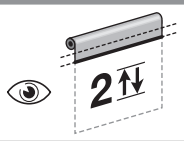


Bring the roller shutter to the **DOWN** limit switch.

2 continues →

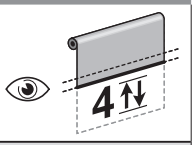


Hold down both buttons...



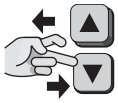
count 2 movements;

wait without releasing the two buttons...



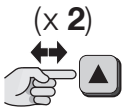
count 4 movements;

→ 2

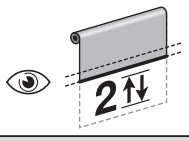


immediately release only button ▲; button ▼ must remain pressed.

3 → 4



Press and release the key.

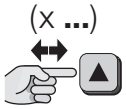


wait for the motor to complete 2 movements;

4 ...

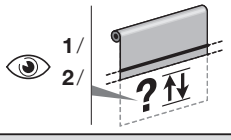
continues →

Select one of the following potions and execute it:
Option A (1 press) = FTC height setting function activation
Option B (2 presses) = FTC deactivated



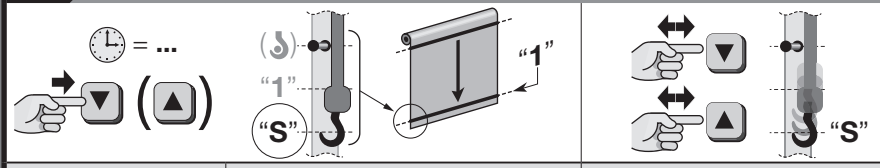
Press and release the button **the number of times** indicated in the option you have chosen.

wait for the motor to perform a number of **movements** equal to the number of pulses entered;



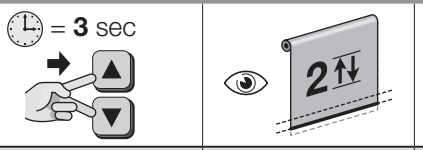
option – **A**

5 continues →



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.

→ **5** **end**



Hold down both buttons...	count 2 movements;	release them after **3 seconds**.

A.7 - "FTA" Function: tensioning the canvas when open awnings fitted with a manual hooking and unhooking mechanism of the awning when opening

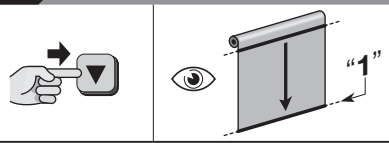
- **Warning! – The FTA function cannot be activated if the FRT or FTC function has already been activated. If the LOWER limit switch has been set to AUTOMATIC, the FTA function cannot be activated.**

- 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

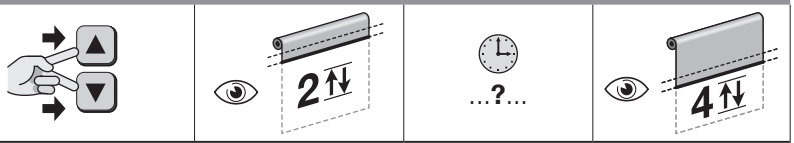
- The "FTA" function may be programmed exclusively after having programmed the limit switch heights "0" and "1".
- **Before starting the procedure, the motor must be brought to the low end stop '1'.**

1



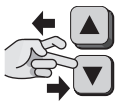
Hold down the button.	Bring the roller shutter to the **DOWN** limit switch.

2 continues →



Hold down both buttons...	count 2 movements;	wait without releasing the two buttons...	count 4 movements;

→ **2**



immediately release only button ▲; button ▼ must remain pressed.

3 → **4**

Press and release the key.	wait for the motor to complete 3 movements;

4 ... **end**

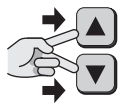
Select one of the following potions and execute it: **Option A (1 press)** = FTA setting/activated **Option B (2 presses)** = FTA deactivated	Press and release the button **the number of times** indicated in the option you have chosen.	wait for the motor to perform a number of **movements** equal to the number of pulses entered;

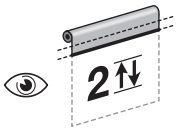
A.8 - Adjusting the motor speed

NOTES AND WARNINGS

• This procedure can be used to vary the rotation speed of the motor by choosing between two levelsi.

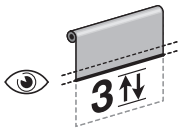
1 → 2


Hold down both buttons...

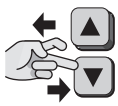


count 2 movements;

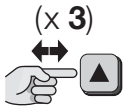
wait without releasing the two buttons...



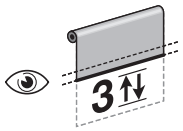
count 3 movements;


immediately release only button ▲; button ▼ must remain pressed.

2



Press and release the key.

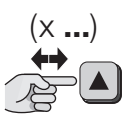


wait for the motor to complete 3 movements;

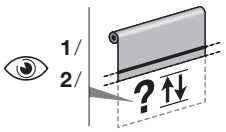
3 continues →

Select the desired option and program it as follows →

→ 3

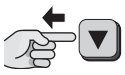


2 OPTIONS:
1 press = **Level 1** (minimum)
2 presses = **Level 2** (nominal) (Default)
Press and release the button **the number of times** indicated in the option you have chosen.



wait for the motor to perform a number of **movements** equal to the number of pulses entered;

4 end

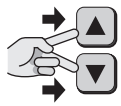

also release button ▼.

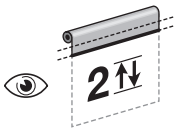
A.9 - Adjusting the Soft-Start / Soft-Stop movement

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

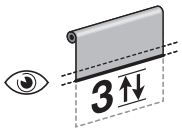
1 → 2


Hold down both buttons...

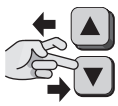


count 2 movements;

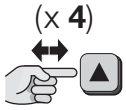
wait without releasing the two buttons...



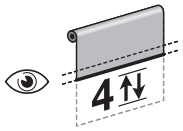
count 3 movements;


immediately release only button ▲; button ▼ must remain pressed.

2



Press and release the key.

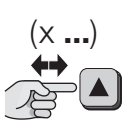


wait for the motor to complete 4 movements;

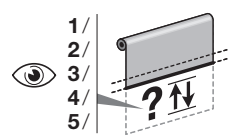
3 continues →

Select the desired option and program it as follows →

→ 3

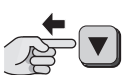


5 OPTIONS:
1 press = **DEACTIVATED**
2 presses = **Level 2** (1/2 turn) (Default)
3 presses = **Level 3** (3/4 turn)
4 presses = **Level 4** (1 turn)
5 presses = **Level 5** (1,5 turns)
Press and release the button **the number of times** indicated in the option you have chosen.



wait for the motor to perform a number of **movements** equal to the number of pulses entered;

4 end

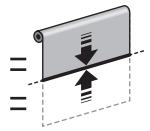
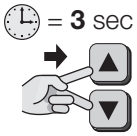
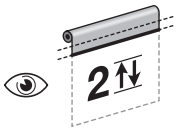
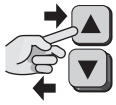

also release button ▼.

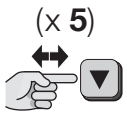
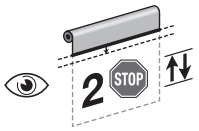
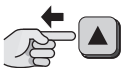
A.10 - TOTAL or PARTIAL deletion of memory

A.10.1 - TOTAL memory deletion

NOTES AND WARNINGS

- If during the execution of the procedure you choose the option "5 presses = clear ALL MEMORY", the system restores the factory settings by clearing the "0" and "1" limit switch heights and all other data stored in the memory of the motor.
- If during the execution of the procedure you choose the option "5 presses = clear ALL MEMORY", subsequently, during the use of the automated system, when you command an Up or Down manoeuvre the roller shutter first performs **2 movements (START & STOP)** (= no limit switch is programmed) and then continues the commanded manoeuvre.

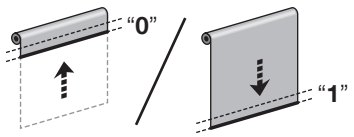
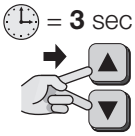
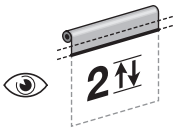
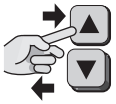
1	2 → 3		
			
• If you want to delete **all the memory of the motor**, move the roller shutter to a half-way position.	Hold down both buttons...	count 2 movements;	**immediately** release only button ▼; button ▲ must remain pressed.

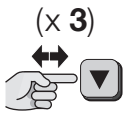
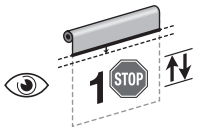
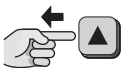
3			4 end
			
Press and release the key.	After about 3 seconds the movement is **briefly interrupted 2 times;**		also release button ▲.

A.10.2 - PARTIAL memory deletion

NOTES AND WARNINGS

- If during the execution of the procedure you choose the option "3 presses", subsequently, during the use of the automated system, when you command an Up or Down manoeuvre the roller shutter first performs **1 movement (START & STOP)** (= only 1 limit switch is programmed) and then continues the commanded manoeuvre.

1	2 → 3		
			
• If you want to delete **a single limit switch**, move the roller shutter to the limit switch you wish to delete.	Hold down both buttons...	count 2 movements;	**immediately** release only button ▼; button ▲ must remain pressed.

3			4 end
			
Press and release the key.	After about 3 seconds the movement is **briefly interrupted 1 time;**		also release 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 - "Automatic limit switch update" function

Caution! – This function is only available if the limit switches have been programmed with the Automatic (paragraph **A.2**) or Semi-automatic procedure (paragraph **A.3**). 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.

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. If the problem is still present, disconnect the power cord from the motor (**fig. 3-i**) and connect it again.
- **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.
- **Interruption of the roller shutter's movement:** After giving a command to the roller shutter, if the latter stops anywhere along its course without any apparent reason, we suggest checking the device or deactivating the obstacle detection function.

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.

Caratteristiche tecniche

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 STAR MZ 2017 SH, 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.

IDV0868A00END_09-06-2023

Nice SpA
Via Callalta, 1
31046 Oderzo TV Italy
info@niceforyou.com

www.niceforyou.com