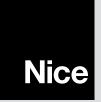


# Garage door opener

EN - Instructions and warnings for installation and use



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

# CAUTION CAUTION

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

#### **CAUTION**

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 materials are in good working order and suited to the intended applications
- The product is not intended for use by persons (including children) with reduced physical, sensory or mental capacities, nor by anyone with insufficient experience or familiarity.
- 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 out of reach of children.

#### **CAUTION**

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 mains power supply, with a contact opening distance that permits 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. If this should 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 intervening on the system (maintenance, cleaning), always disconnect the product from the mains power supply and any backup batteries
- 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 door may cause injury
- The packing materials of the product must be disposed of in compliance with local regulations
- The product must not be installed outdoors
- Keep an eye on moving doors and do not let anyone go near them until they have opened or closed fully
- Be careful when activating the manual release device, as an open door may fall suddenly due to weak or broken springs, or if it is unbalanced
- Every month, check that the drive motor reverses when the door encounters a 50 mm-high object placed on the ground. If necessary, readjust the door and check it again, as incorrect adjustment is potentially dangerous (for drive motors incorporating a trapping safety system that intervenes when the door's lower edge encounters an obstacle)
- If the power cable is damaged, it must be replaced by the manufacturer or the latter's technical assistance service, or by a similarly qualified person, in order to prevent any type of risk

#### **INSTALLATION PRECAUTIONS**

- · Prior to installing the drive motor, check that the door is in good working order, correctly balanced and that it opens and closes properly
- Prior to installing the motor, remove all unnecessary cables or chains and deactivate any equipment such as locking devices not required for motorised operation
- Check that there are no points where trapping or crushing against fixed parts can occur when the moving section is in the fully open or closed position; adequately protect any such parts
- 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 controls are at a safe distance from the moving parts, while allowing a good view of them.

  Unless a switch is used, the controls should be installed at least 1.5 m off the ground and should not be accessible
- Permanently attach the trapping hazard warning labels in a highly visible location or near the fixed control devices (if present)
- Permanently attach the manual release label close to the manoeuvring assembly
- After installation, make sure that the motor prevents or stops door opening when the latter is loaded with a 20 kg weight secured to the centre of its bottom edge (for drive motors that can be used with doors having opening widths exceeding 50 mm)
- After installation, make sure that the mechanism is properly adjusted and that the motor reverses when the door collides with a 50 mm-tall
  object placed on the ground (for drive motors incorporating a trapping safety system that intervenes when the bottom edge of the door
  encounters an obstacle);
  - Following installation, check and ensure that no door parts obstruct public roadways or pavements

#### PRODUCT DESCRIPTION AND INTENDED USE

SPY is a family of electromechanical gearmotors with separate control unit intended for automation of protruding or non-protruding spring or counterweight overhead doors (Fig. 1): for up-and-over garage door you must use the SPA5 accessory.

The control unit incorporates a radio receiver 433.92 MHz with FLOR coding.

A CAUTION! – All uses other than the intended use described and use in environmental conditions other than those described in this manual should be considered improper and forbidden!

### APPLICATION LIMITS

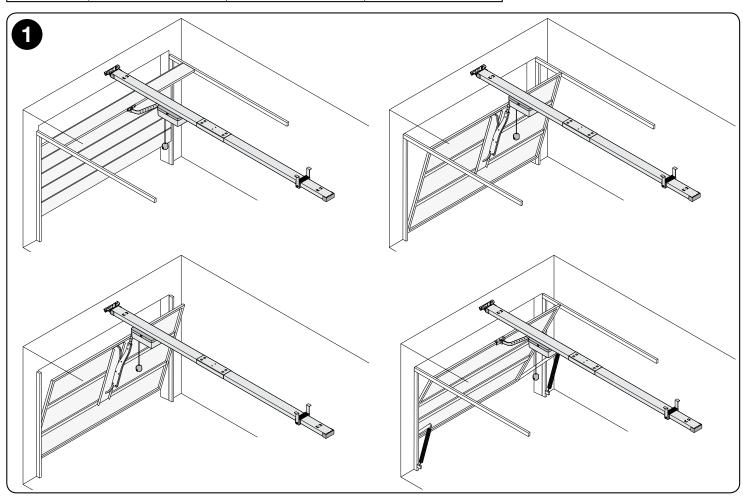
Table 1: application limits refer to the size of the protruding or non-protruding sectional door or overhead door (Fig. 1). Table 2: application limits refer to the daily use of the protruding or non-protruding sectional door or overhead door (Fig. 1).

Table 1 – Application limits						
Model	Sectional doors			ing overhead cessory SPA5)	(with access	verhead doors sory SPA5) or without SPA5)
	width	height	width	height	width	height
SPY550 + 3.2 m guide	3.6 m	2.5 m	3.5 m	2.3 m	3.5 m	2.8 m
SPY550 + 4 m guide	2.8 m	3.3 m	2.6 m	3.1 m	2.9 m	3.5 m
SPY650 + 3.2 m guide	4.2 m	2.5 m	4 m	2.3 m	4 m	2.8 m
SPY650 + 4 m guide	3.2 m	3.3 m	3 m	3.1 m	3.3 m	3.5 m
SPY800 + 3.2 m guide	5 m	2.5 m	5 m	2.3 m	5 m	2.8 m
SPY800 + 4 m guide	3.8 m	3.3 m	3.7 m	3.1 m	4 m	3.5 m

Note: the measurements indicated in this table are indicative and serve only to make a rough estimate. The real suitability of SPY to automate a specific garage door depends on the balancing of the door, on the friction of the guides and other phenomena, including occasional ones such as wind pressure or the presence of ice which could obstruct the movement.

A Caution! Any other use or use with dimensions greater than specified is non-conforming. Nice declines all liability for damage and injury resulting for non-conforming use.

Table 2 – Application limits			
Model		Cycles	
	Time	Day	Consecutive
SPY550	20	200	8
SPY650	30	300	12
SPY800	30	300	12

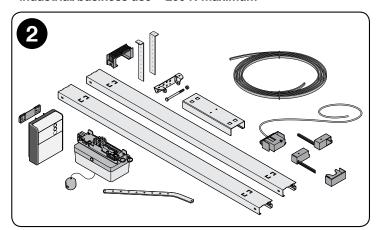


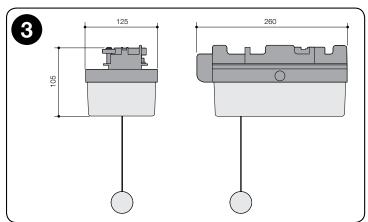
#### 3.1 - Gearmotor installation

A Important! Before installing the gearmotor check Chapter 2, the contents of the package to verify the materials (Fig. 2) and the overall dimensions of the gearmotor (Figs. 3-4).

A Caution! The garage door must be able to move with ease. Limit to be complied with (according to EN12604):

- private use = 150 N maximum
- industrial/business use = 260 N maximum





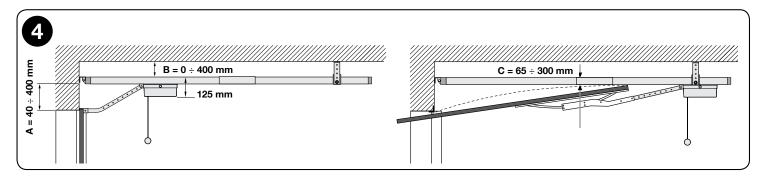
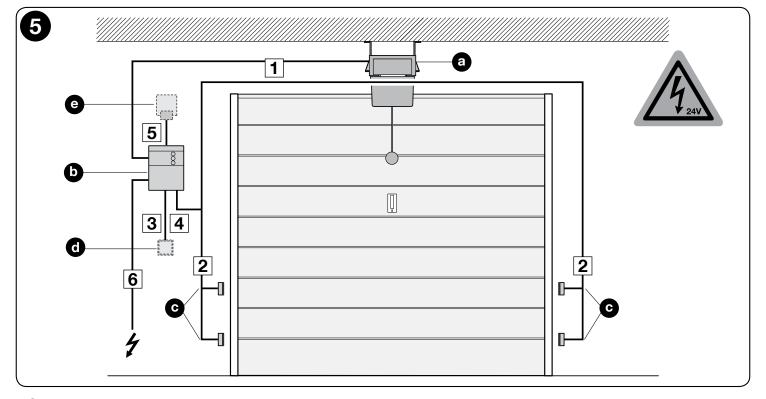


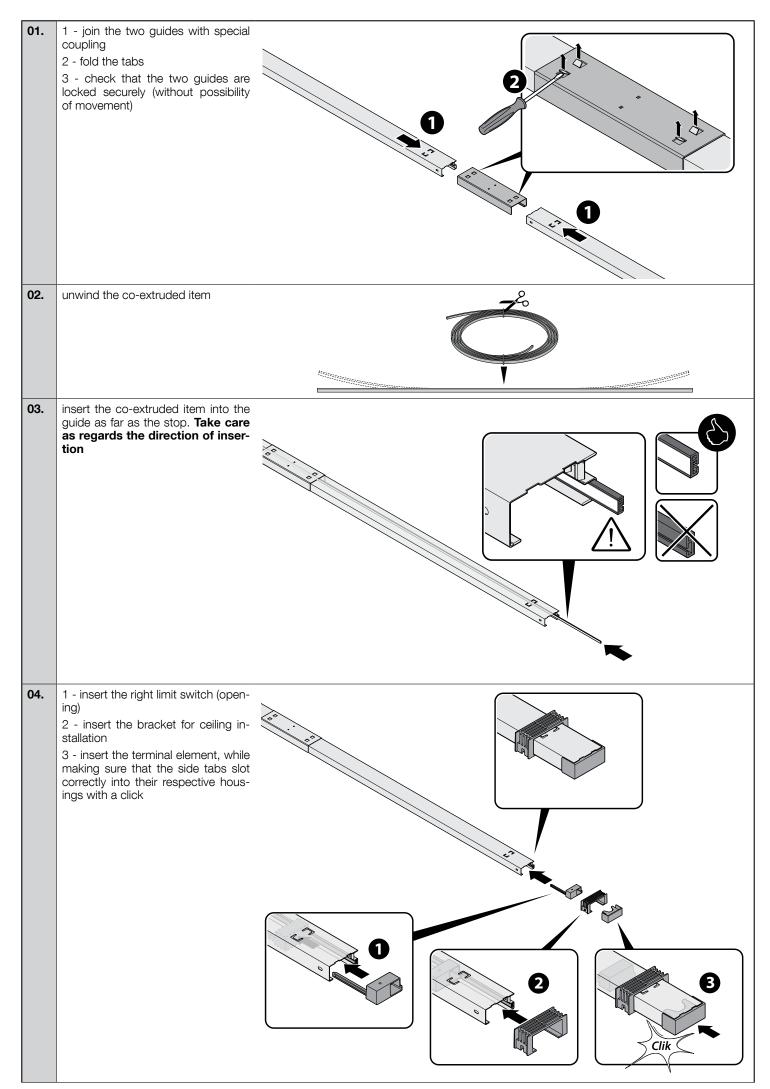
Fig. 5 shows the location of the components of a typical installation:

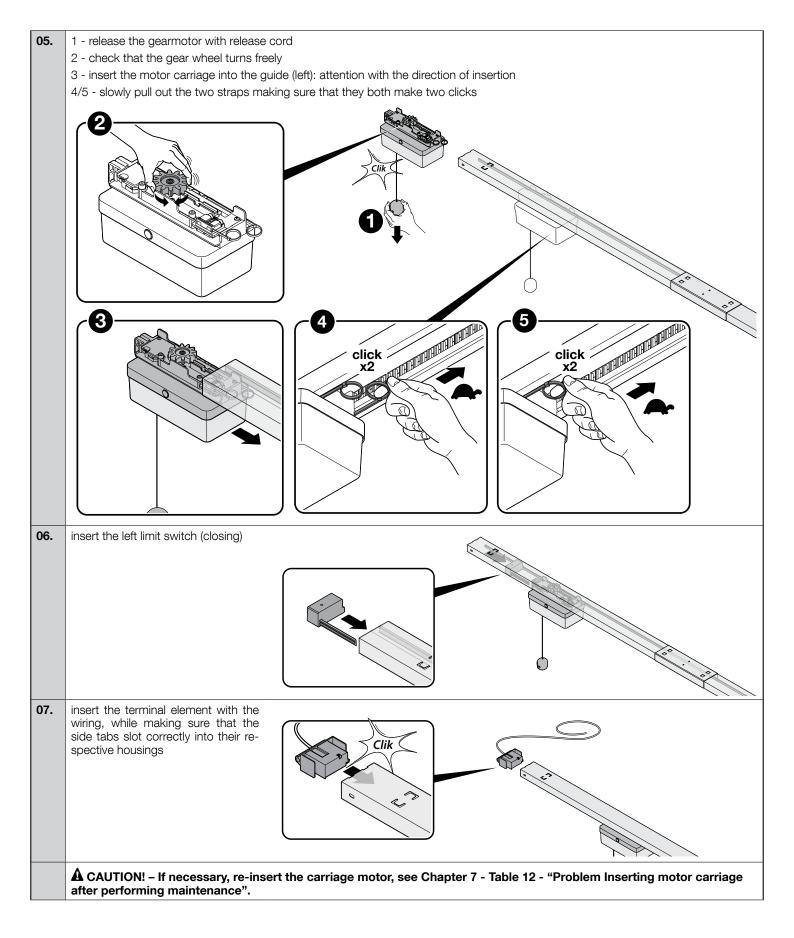
- a gearmotor
- b control unit
- c photocells
- d key-operated selector switch
- e flashing light

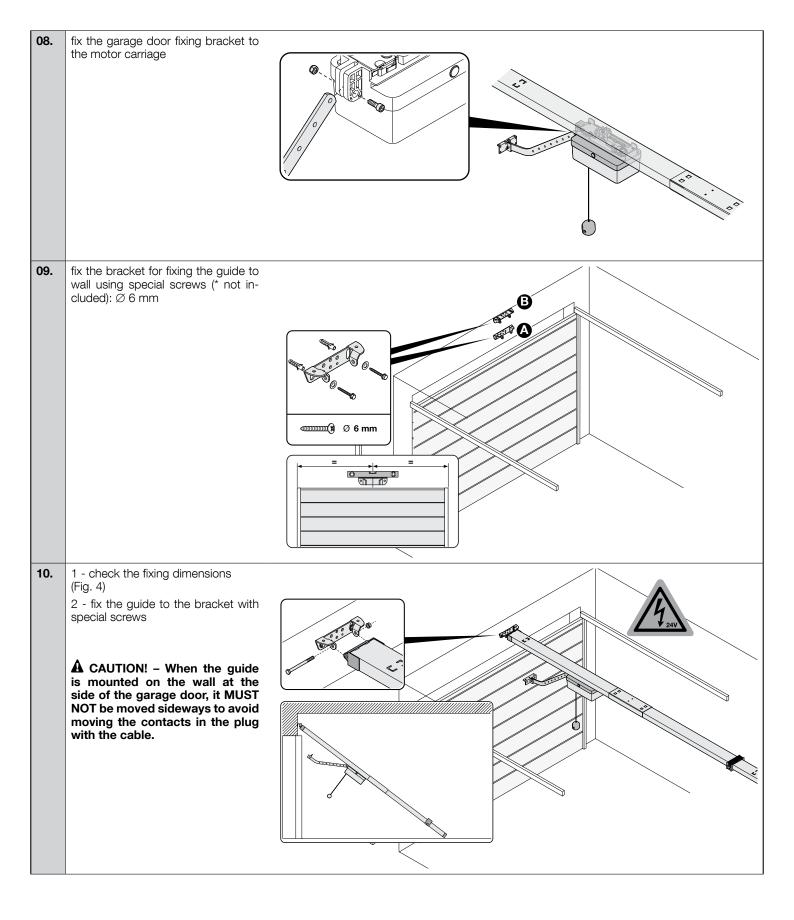


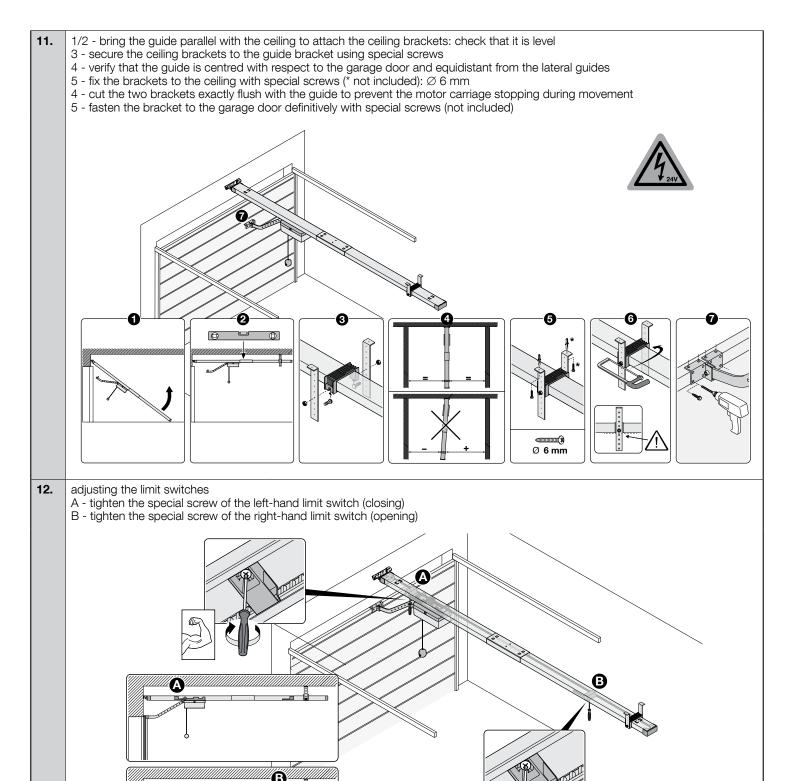


The motor is powered at 24 V via the guide: the guide must be isolated from the garage door or other nearby devices.









#### 3.2 - Installation of the control unit box

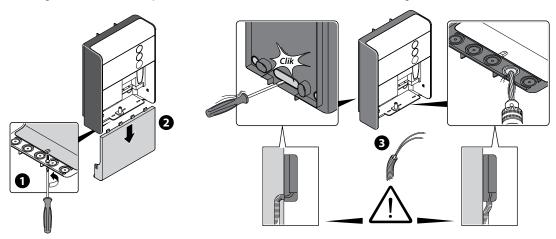
▲ Important! – Before installing the control unit box check the electrical connections in Fig. 5 and Table 3.

A Danger from light emissions! – Looking at LED lights from close up and for prolonged periods can cause dazzling. It may temporarily reduce eyesight and cause accidents. Avoid looking at LEDs directly.

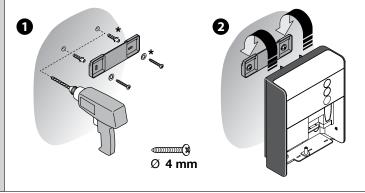
	Table 3 - Types of electrical cable (see fig. 5)				
	Clamp	Type of cable	Maximum length	Function	
1	MOTOR (a)	2 x 1 mm <sup>2</sup> (included)	5 m	24 V DC power to the guide	
2	INP 2 (PHOTO/OPEN)	2 x 0.5 mm <sup>2</sup>	20 m	Reconfigurable input 24VDC. It is factory configured as: - NC input with PHOTO operation in closing (SPYBOX) - NA input with OPEN operation (B SPYBOX)	
	BLUEBUS	2 x 0.75 mm <sup>2</sup>	20 m	Input for Bluebus devices.  Warning - Connect devices in parallel	
3	INP 1 (SS)	2 x 0.5 mm <sup>2</sup>	20 m	Reconfigurable input 24VDC. It is configured as NA input with SS function	
4	STOP	2 x 0.5 mm <sup>2</sup>	20 m	Input for the connection of a STOP button or sensitive edge of the 8K2 resistive type. The input is with self-recognition with possibility NA, 8K2, NC *	
5	OUT1 (FLASH)	2 x 0.5 mm <sup>2</sup> (SPYBOXB / SPYBOX) RG58 (SPYBOXB)	20 m 10 m	Output for connection of a flashing light (12 VDC - 21W or 24 VDC - 25 W programmable) or for connecting other devices with voltage 24 VDC - 25W max	
6	POWER 230 VAC 50/60Hz	3 x 1 mm <sup>2</sup> (not supplied)	-	Control unit power	

<sup>\*</sup> If you use a category B resistive sensitive edge (according to EN13849-1,-2) to limit the force of impact (according to CAT 2 and Performance Level C) you need to activate parameter L5 (level one programming) and perform search of devices

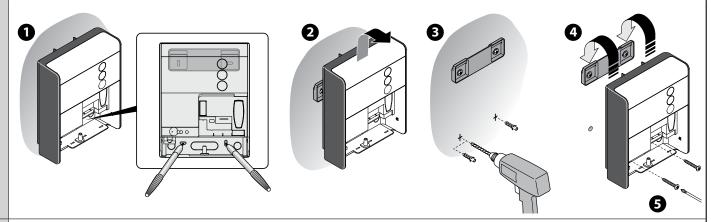
- **01.** 1 open the cover: loosen the screw and pull downwards until you hear a click
  - 2 prepare the routing for electric cables through the slot or cable glands
  - Slot: you must break the knock-outs with a screwdriver
  - Cable glands: it is necessary to make a hole with a drill and fasten the cable glands



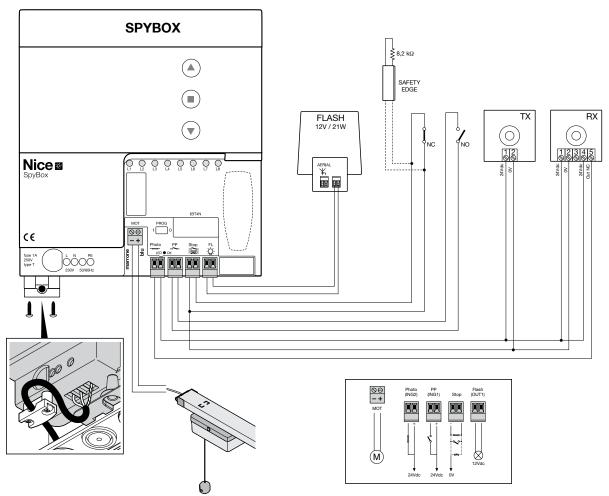
1 - install the bracket to the wall with special screws and wall plugs (not included: Ø 4 mm), where the control unit box needs to be fixed 2 -attach the box to the bracket



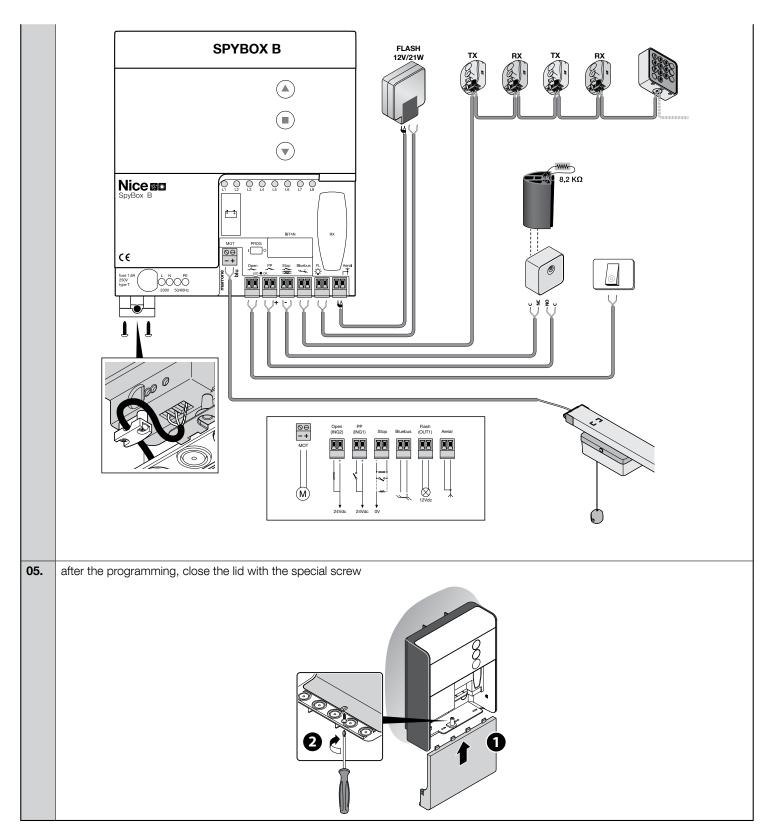
- **03.** 1 mark the points to attach the bottom of the box
  - 2 remove the box from the bracket and put it to one side
  - 3 drill the holes with the drill
  - 4 attach the box to the bracket and fix the bottom with the special screws (5)



- 04. 1 connect the power cables of the motor and accessories (depending on the control unit model)
  - 2 connect the power cable



- Provide a disconnection device (not supplied) in the plant's mains power supply, with a contact opening distance that permits complete disconnection under the conditions dictated by overvoltage category III
- Before intervening on the system (maintenance, cleaning), always disconnect the product from the mains power supply and any backup batteries



To install the specified accessories, refer to the respective instruction manuals.

#### **4** TESTING AND COMMISSIONING

These are the most important phases of automation set-up to ensure maximum system safety.

This must be performed by qualified and experienced personnel who must take charge of establishing the tests necessary to verify the solutions adopted in respect of risks and verify the compliance of the system with applicable standards, legislation and regulations, in particular all requirements of the standard 12445 which establishes the test methods for checking automations for doors and gates.

Any supplementary equipment must be tested separately for operation and interaction with the SPY: refer to the respective user manuals.

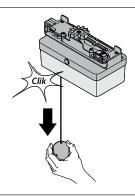
#### 4.1 - Testing

The testing procedure can also be performed as a periodic check of the automation devices.

Each component of the system (sensitive edges, photocells, emergency stop, etc.) requires a specific testing phase. To do so, follow the procedures given in the instruction manuals.

Run the setup of the control unit.

- **01.** Ensure that all specifications in the "WARNINGS" chapter have been observed in full.
- **02.** Release the garage door by pulling the release cord downwards and see if you can manually move the garage door in opening and closing with a force:
  - private use = 150 N maximum
  - industrial/business use = 260 N maximum



- **03.** Put the motor carriage back.
- **04.** Using the key switch or radio transmitter or the control unit buttons, test the opening and closing of the garage door and make sure that it moves in the intended direction.
- **05.** The test should be carried out a number of times to make sure that the garage door moves smoothly, that there are no points of excessive friction and that there are no defects in the assembly or adjustments.
- **06.** Verify the correct operation of all safety devices in the system (photocells, sensitive edges etc.): in particular, when a device is activated, the BlueBUS/OK LED on the control unit flashes 2 times quickly, confirming that the control unit recognises the event.
- **07.** Check the operation of the photocells and any interference with other equipment:
  - 1 pass a dia. 5 cm length 30 cm cylinder along the optical axis, first close to the TX, then close to the RX
  - 2 check that the photocells trip in any condition, switching from active to alarm and back
  - 3 check that tripping the photocell results in the intended response of the control unit: e.g., when tripped during a closing stroke, the gate changes direction.
- **08.** If the dangerous situations caused by the movement of the garage door have been safeguarded by limiting the impact force, the user must measure the impact force according to the EN 12445 standard.

If the adjustment of the 'Speed' and control of the 'Motor Force' are used to assist the system for the reduction of the impact force, try to find the adjustment that gives the best results.

#### 4.2 - Commissioning

Commissioning can take place only after all testing phases have been terminated successfully (par. 4.1). Partial or "makeshift" commissioning is strictly prohibited.

- Prepare and store the technical documentation for the automation for at least 10 years. This must include at least: an assembly drawing of the automation, a wiring diagram, an analysis of hazards and solutions adopted, a manufacturer's declaration of conformity of all the devices installed (for SPY use the annexed CE declaration of conformity); a copy of the automation system instruction manual and maintenance schedule.
- **O2.** Post a permanent label or sign near the door detailing the release and manual manoeuvre operations (refer to the figures in "Instructions and warnings for users of the SPY gearmotor").
- **O3.** Post a permanent label or sign near the gate containing this picture (min. height 60 mm):



- **04.** Using the key switch or radio transmitter or the control unit buttons, test the opening and closing of the garage door and make sure that it moves in the intended direction.
- **05.** Post a label on the garage door providing at least the following data: type of automation, name and address of manufacturer (person responsible for the "commissioning"), serial number, year of manufacture and 'CE' mark.
- **06.** Prepare the declaration of conformity of the automation system and deliver it to the owner.
- **07.** Give the owner the user manual (tear-out insert).
- **08.** Prepare and give the owner the maintenance schedule.
- **O9.** The force adjustment is an important safety aspect and must be done with care by an expert technician. Important! Adjustments set to force loads higher than those allowed may cause injury to persons and animals or damage to things. Adjust the force to the minimum available value to allow rapid and reliable detection of any obstacles.
- 10. Before commissioning the gate, inform the owner in writing about the attendant residual risks.

### 5 PROGRAMMING

In this manual the programming procedures are explained with the use of icons and their meanings are given in the following glossary:

Symbol	Description	Symbol	Description
	LED ON	*	release the buttons
	LED OFF	• • •	on the control unit, select the OPEN button
	fast flashing LED	<b>⊙</b>	on the control unit, select the STOP button (SET)
) I	very fast flashing LED	<b>⊙</b>	on the control unit, select the CLOSE button
	LED flashing LONG	•	on the control unit, select the OPEN + CLOSE buttons
`	LED flashing SHORT	<b>●</b> • • • • • • • • • • • • • • • • • • •	on the control unit, select the OPEN + STOP buttons (SET)
<b>→</b>	indicates the transition between states	⊙ •	on the control unit, select the STOP (SET) + CLOSE buttons
OFF	shut off mains power	ı	PROG selector = default location
ON	supply mains power	ı	move the PROG selector to the left = position I
1	wait	I	move the PROG selector to the right = position <b>0</b>
<b>③</b>	observe / check	→ ← •	select LEDs/functions
s	within a few seconds		device acquisition phase
<b>+</b>	press and release the button	$\qquad \qquad \bigoplus$	position acquisition phase
**	press and release the buttons at the same time	• ((((()))	radio transmitter acquisition phase (Mode 2: Step-by-Step command)
<b>++</b>	press and release a transmitter button		move the garage door to the halfway position
	hold down a transmitter button		release and lock the gearmotor
<b>+</b>	release the transmitter key		closing-opening-closing
***	press and hold the buttons		end of procedure

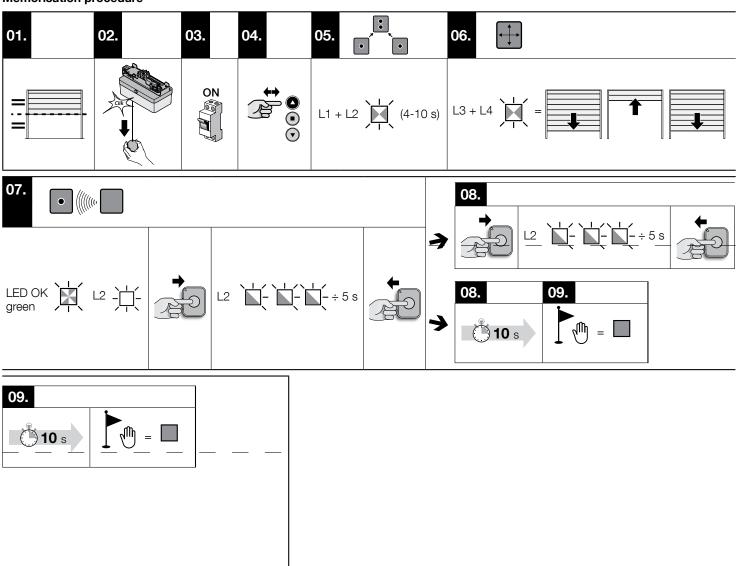
#### 5.1 - QUICK SETUP

The 'Quick setup' function allows you to speed up the commissioning of the motor. It only works with virgin memory.

After the initial flashing of the LEDs, the control unit waits for the acquisition of the devices by making L1 + L2 flash slowly. Quick setup starts only with PROG selector to the right ( | \_\_\_\_\_\_ )

If you use a category B resistive sensitive edge (according to EN13849-1,-2) to limit the force of impact (according to CAT 2 and Performance Level C) you need to activate parameter L5 (level one programming) and perform search of devices.

#### Memorisation procedure



#### 5.2 - Standard Setup

On the control panel there are 3 buttons:

LED significant PROG selector positioned on the left			
LED	Function		
<b>洪</b>	active		
	not active		

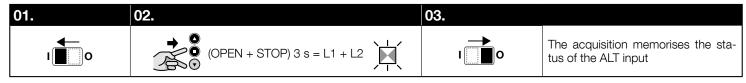
Function	Functions with PROG selector (mod. SPYBOX - SPYBOX B)			
1	1 0		I	
		note: the L off	LEDs L1 L8 remain	
key	Function	key	Function	
OPEN _	perform the set- tings by moving the programming point to the left	OPEN	command an opening	
STOP	enter the program- ming phase and change	STOP	- stop the manoeuvre - with the motor off, switch the courtesy light on or off	
CLOSED	perform the set- tings by moving the programming point to the right	CLOSED	command a closing	

#### 5.3 - Device Acquisition

After connecting the power supply, if you have not run the Quick Setup (section 5.1), it is necessary to carry out the acquisition of the devices connected to the STOP input (indicated by the flashing of the LEDs L1 and L2).

If you use a category B resistive sensitive edge (according to EN13849-1,-2) to limit the force of impact (according to CAT 2 and Performance Level C) you need to activate parameter L5 (level one programming) and perform search of devices.

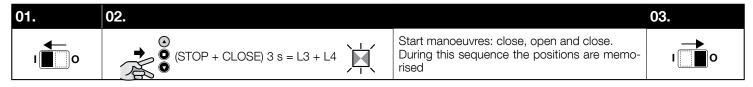
#### ⚠ CAUTION! - The device acquisition phase must be performed even if there is no device connected.



#### 5.4 - Acquisition of Opening and Closing Positions

After acquiring the devices (section 6.2) it is necessary to enable the control unit to recognize the opening and closing positions of the garage door.

In this phase, the length of the stroke of the garage door is measured, from the closing mechanical stop to the opening mechanical stop.



#### 5.5 - Deletion of parameters memory

01.	02.	03.		04.
I O	(OPEN + CLOSE) 3 s	L1 = (OPEN + CLOSE)	Start deleting all memory except radio codes (section 6.5)	ı

#### 5.6 - Deletion of radio codes memory

01.	02.	03.	04.
I O	(OPEN + CLOSE) 6 s	L2 ————————————————————————————————————	Start deleting all the radio codes in the memory

#### 5.7 - Deletion of total memory

01.	02.	03.	04.
	O (OPEN+CLOSE) 10 s	L3 = (OPEN+CLOSE) Start deleting all memory, including radio codes	I

#### 5.8 - Programming the parameters

▲ IMPORTANT! - Memorisation procedures can be completed within a maximum of 10 seconds from the beginning of operation: so, you must first read the legend of the sections and then proceed.

#### 5.8.1 - 1st level Parameters

	Table 4 – 1st level Parameters			
LED	Function	Description		
L1	Automatic Closing	Run the automatic closing of the garage door when it is open, after the programmed pause time has elapsed		
L2	Close After Photo	Run the closing of the garage door only after transit has been completed.  Caution! - You need to have performed the installation of the photocells		
L3	Always Close	After switching on the control unit, a closing manoeuvre starts preceded by 3 sec. of pre- flashing		
L4	Stand by	This function reduces power consumption: after 1 minute from the end of the manoeuvre, the control unit turns off the output and the BlueBUS photocell transmitters. For use with the Solemyo system you must enable the "Stand by - all" mode using the Oview programmer		
L5	STOP 8K2	Run a test of the 8K2 sensitive edge at the start of each manoeuvre. Activate the function then acquire the devices with the 8K2 edge connected.		
L6	Lock OPEN and CLOSE buttons	Deactivates the operation of the OPEN and CLOSE buttons on the lid of the box, when the switch is in 0 position		
L7	Lock transmitter memorisation	Prevents the memorisation of new transmitters on the internal radio receiver		

L8

#### 

#### 5.8.2 - 2nd level Parameters

	Table	5 – 2nd le	vel Parameters		
Input LED	Parameter	Level	Value		
Note: the parame	lote: the parameters with a grey background are factory settings				
		L1	10s		
		L2	20s		
		L3	40s		
L1	Pause Time	L4	60s		
		L5	80s		
		L6	120s		
		L7	160s		
		L8	200s		
		L1	S.S.: open - stop - close - stop		
		L2	S.S. open - stop - close - stop		
		L3	S.S.: open - close - open - close	e	
L2	Operating modes	L4	Apartment block		
		L5	Hold-to-run		
		L6	Industrial mode		
		L7	-		
		L8	-		
		L1	Speed 1 - 30% low		
		L2	Speed 2 - 50%		
		L3	Speed 3 - 75%		
L3	Motor speed	L4	Speed 4 - 100% high		
		L5	Open V3 - Close V1		
		L6	Open V3 - Close V2		
		L7	Open V4 - Close V2		
		L8	Open V4 - Close V3		
		L1	Garage door open indicator		
		L2	Active if garage door closed		
		L3	Active if garage door open		
L4	Flash output	L4	Flashing light (12V)		
		L5	Flashing light (24V)		
		L6	Electric block		
		L7	Suction cup		
		L8	Radio channel 2		
		L1	OP lev 25%	CL lev 25%	
		L2	OP lev 50%	CL lev 50%	
	Motor force	L3	OP lev 75%	CL lev 75%	
L5	Lev 0% = low	L4	OP lev 100%	CL lev 100%	
	Lev 100% = high	L5	OP lev 75%	CL lev 25%	
		L6	OP lev 75%	CL lev 50%	
		L7	OP lev 100%	CL lev 50%	

		L8	OP lev 100%	CL lev 75%
		L1	Disabled	1
		L2	OP lev 60%	CL lev 60%
	Motor sensitivity	L3	OP lev 60%	CL lev 70%
L6	low = more force	L4	OP lev 60%	CL lev 80%
	high = little force	L5	OP lev 60%	CL lev 90%
		L6	OP lev 70%	CL lev 70%
		L7	OP lev 70%	CL lev 80%
		L8	OP lev 70%	CL lev 90%
		L1	SS (NA)	
		L2	Open (NA) (SPYBOX B)	
		L3	Closes (NA)	
L7	INP2	L4	Partial open 1 (NA)	
		L5	STOP (NC)	
		L6	Photo (works in closing	- NC) (SPYBOX)
			Photo1 (works on oper	ning and closing – NC)
			Photo2 (works on opening – NC)	
Warning!: F	For 'Radio management' (LED L8) a	fter selecting th	e Level (L1 L8):	
<b>+</b> • • • • • • • • • • • • • • • • • • •	→ ♠ In this pha	ase there are 10	s available for each trans	mitter to be memorised
		L1	Memorise code in mod	e 1
		L1 L2	Memorise code in mod Memorise code in mod	<u>-</u>
				e 2 - cmd SS
L8	Radio management	L2	Memorise code in mod	e 2 - cmd SS e 2 - cmd OP PART
L8	Radio management	L2 L3 L4 L5	Memorise code in mod	e 2 - cmd SS e 2 - cmd OP PART e 2 - cmd OP
L8	Radio management	L2 L3 L4	Memorise code in mod Memorise code in mod Memorise code in mod	e 2 - cmd SS e 2 - cmd OP PART e 2 - cmd OP e 2 - cmd CL
L8	Radio management	L2 L3 L4 L5	Memorise code in mod	e 2 - cmd SS e 2 - cmd OP PART e 2 - cmd OP e 2 - cmd CL

Programming	nrocedure	2nd level	
Programmin	Diocedule	znu ievei	

i i ogi ali	Togramming procedure 2nd lever					
01.	02.	03.	04.			05.
1 0	→ ③ ⑤ (SET) 3 s	L1 = (SET)			e desired function L8) use the OPEN outton	until completion of steps 06 and 07
06.		07.		08.	09.	
( <u>L</u> ) 3	$s = - \prod_{i=1}^{n-1} (\text{led L1L8})$	<b>←→</b> ∧	to select the desired function (LED: L1 L8) use the OPEN or CLOSE button	(SET)	10 s = exit	from progr. or

#### 5.9 - Integrated radio receiver

For remote control the control unit incorporates a radio receiver with 433.92 MHz frequency and FLOR coding. Each radio transmitter is recognised by the radio receiver by means of a 'code' which is different from every other transmitter: you must run the memorisation of the transmitters to prepare the receiver to recognise each single transmitter.

There are two types of memorisation: Mode 1 and Mode 2.

#### • Mode 1 (see L8 - Table 5):

automatically assigns the commands indicated in table 6 to the transmitter's keys.

Each transmitter is memorised in a single step, with all keys programmed: it does not matter which key is pressed. (One memory section is occupied for each memorised transmitter). N.B.: when memorised in Mode 1, a transmitter can control only one automation.

Table 6		
Transmitter key	Command	
1	SS	
2	Partial open	
3	Open	
4	Close	

#### • Mode 2 (see L8 - Table 5):

freely assigns a command among those listed in table 7.

For each phase, only one key is memorised (the one pressed during memorisation). (One memory section is occupied for each key).

**▲ IMPORTANT!** - The memorisation procedures can be executed within 10 seconds maximum: you need to read the instructions of sections (5.10, etc) below and then proceed.

Table 7			
LED Input	Parameter	Level	Value
	Radio man- agement	L1	Memorise code in mode 1
		L2	Memorise code in mode 2 - cmd SS
		L3	Memorise code in mode 2 - cmd OP PART
L8		L4	Memorise code in mode 2 – cmd OP
		L5	Memorise code in mode 2 – cmd CL
		L6	Memorise code in mode 2 – cmd STOP
		L7	Memorise code in mode 2 - cmd Courtesy light

#### 5.10 - Radio diagnostics during memorisation or deletion of radio transmitters

During the memorisation or deletion of the transmitters, the green LED flashes quickly. The red programming LEDs can perform the following forms of flashing:

Table 8			
Memorisation	Deletion		
1 slow flashes: transmitter already memorised	1 slow flash: code not found in memory		
3 slow flashes: transmitter memorised successfully	5 quick flashes: code deleted		
8 slow flashes: memory full			
2 quick flashes: memory locked			

#### 5.11 - Remote memorisation

It is possible to memorise a new transmitter without having to access programming. You must have a previously memorised transmitter (old). The new transmitter will be memorised with the same characteristics as the old one.

The procedure is as follows: with the motor stopped, stand close to the control unit

01.		02.		03.
<b>NEW</b> transmitter		OLD transmitter already memorised	CAUTION! - If you start a ma-	<b>NEW</b> transmitter
8 s	<b>+</b>	2 s 2 s 2 s 2 s	noeuvre you must repeat the pro- cedure from point 01	<b>←→</b> 5 s
If the procedure I	has been su	ccessful the new transmitter is memorised (a	manoeuvre may start).	

#### 5.12 - External radio receiver (B SPYBOX only)

The SPYBOX B control unit has an available connector that lets you use an optional radio receiver (SMXI, SMXIS, OXI).

#### 5.12.1 - Memorisation of radio transmitters

#### • Using a receiver:

with the memorisation of the transmitter in Mode 1 (see receiver manual) with the memorisation of the transmitter in Mode 2 (see receiver manthe transmitter buttons are associated with the commands on the control unit as follows:

Key	Command
N° 1	S.S. (Step-by-Step)
N° 2	Partial open
N° 3	Open
N° 4	Close

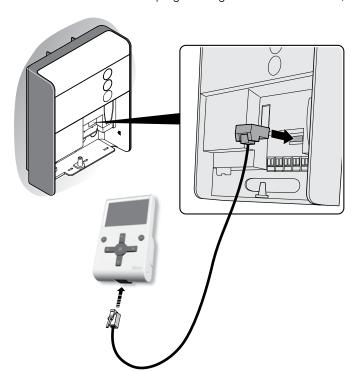
#### Using an OXI receiver:

ual), each button on the transmitter can be associated with one of the following commands on the control unit:

Key	Command
N° 1	Step-by-step
N° 2	Partial open 1
N° 3	Open
N° 4	Close
N° 5	Stop
N° 6	Step-by-Step Condominium
N° 7	Step-by-Step High priority
N° 8	Release and Open
N° 9	Release and Close
N° 10	Open and Lock automation
N° 11	Close and Lock automation
N° 12	Lock automation
N° 13	Release automation
N° 14	Timer On Courtesy light
N° 15	On-Off Courtesy Light

#### 6.1 - Connecting an Oview

You can connect the Oview programming unit to the control unit, via the IBT4N interface through a bus cable with 4 electricity wires inside.



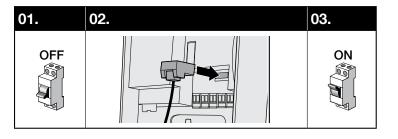
This unit enables quick and complete programming of the functions, adjustment of the parameters, firmware updates, diagnostics to detect malfunctions and periodic maintenance.

The Oview can be used at up to 100 m away from the control unit.

If several control units are networked with each other in a BusT4 network, by connecting the Oview to one of them, you can view on the display all the networked control units (up to a maximum of 16 units).

The Oview unit can also be left connected to the control unit during normal operation of the automation, so that the user can send commands using a specific menu.

Furthermore, if the control unit has an OXI type radio receiver, the Oview allows you to access the parameters memorised on this receiver.



Further information is available in the Oview unit instruction manual and in the "SPY - Programmable functions using the Oview programmer", also available on www.niceforyou.com.

#### 6.2 - Add or remove BlueBUS devices (B SPYBOX only)

In the SPYBOX B control unit you can at any time add new devices connected to the BlueBus and Stop or delete others that are already present: see section 5.3.

#### **Bluebus Input**

The BlueBus system allows you to connect compatible devices using only two wires which carry both the power supply and the communication signals.

All devices are connected in parallel on the same 2 Bluebus wires and there is no need to observe any polarity. Each device is recognized individually because during installation a unique address is assigned to it.

You can connect photocells, safety devices, control devices, such as keyboards and transponder card readers, signal lights, etc. to the Bluebus system. During the device acquisition phase, the control unit recognises them individually and can detect with extreme safety any anomalies.

**A** When a device connected to the Bluebus is added or removed, you need to perform the device acquisition phase (section 5.3).

#### **Photocells**

The Bluebus system allows the control unit to recognise the photocells, by adjusting the addressing of the jumpers (Table 9) and allows you to assign the correct value of the 'obstacle detection' function.

The addressing operation must be performed both on the TX and RX by setting the jumpers in the same way and making sure there are no other pairs of photocells with the same address. Photocells can be installed as shown in the figures below.

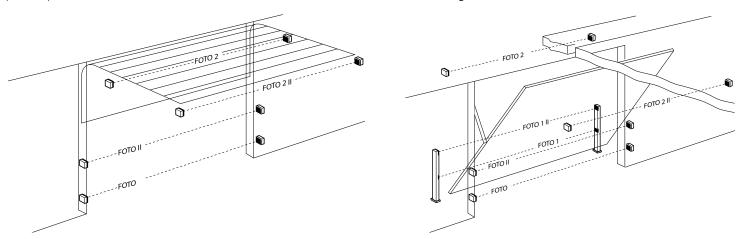


	Table 9	
Photocells	Jumper	
РНОТО	Photocell h = 50 activation during closing (reverses to 'open')	
PHOTO II	Photocell h = 100 activation during closing (reverses to 'open')	
PHOTO 1	Photocell h = 50 activation during closing (temporary stop and reverses to 'open')	
PHOTO 1 II	Photocell h = 100 activation during closing (temporary stop and reverses to 'open')	
РНОТО 2	Photocell with activation during opening (stops the manoeuvre)	
PHOTO 2 II	Photocell with activation during opening (stops the manoeuvre)	
РНОТО 3	Single photocell with activation during opening and closing (temporary stop and reverses in 'open')	
FA1	Photocell for opening command (cut jumper A on the back of the TX and RX cards)	
FA2	Photocell for opening command (cut jumper A on the back of the TX and RX cards)	

#### A IMPORTANT! - After the installation or removal of photocells, you need to perform the device acquisition phase (section 5.3)

Note: you can connect 2 photocells to the Bluebus input, with the 'FA1 open' and 'FA2 open' command function (it is necessary to cut the jumper A on the back of the TX and RX cards). When these photocells intervene, the control unit commands an opening manoeuvre. For further information, refer to the instruction manual for the photocells.

#### 6.3 - STOP input connection

The Stop input causes the immediate stoppage of the manoeuvre, followed by a brief inversion.

Devices with contact types Normally Open (NO), Normally Closed (NC) or devices with a constant resistance of 8.2 K $\Omega$  (such as sensitive edges) can be connected to this input.

During the device acquisition phase, the control unit recognises the type of device connected to the Stop input and later, during normal use of the automation, the control unit commands a Stop when it senses a change with respect to the acquired situation.

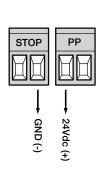
# A CAUTION! - If you want to ensure category 3 safety with faults according to EN 954-1, you must only use the devices with 8.2 KΩ constant resistance output.

If the connection with 8.2  $\rm K\Omega$  constant resistance is used, you can program a device test, at the start of each manoeuvre. To activate the 8K2 test mode, you must enable the L5 parameter in the 1st level menu.

#### 6.4 - Power for external devices

If you want to power external devices (proximity reader for transponder cards or the backlight of a key selector) you can connect the device to the product control unit as shown in the figure at the side.

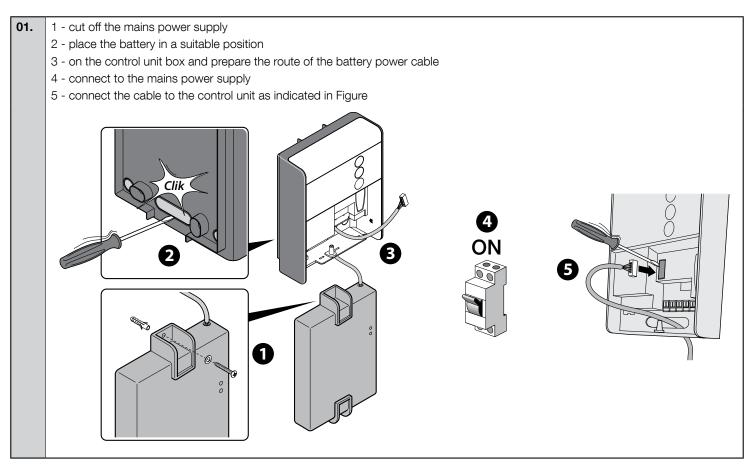
The power supply voltage is 30V DC +5% to -20% with a maximum available current of 100 mA.



#### 6.5 - Backup battery mod. PS324 (for B SPYBOX only)

In the event of mains power failure, SPYBOX B is designed to be powered by model PS324 backup battery. To perform the installation and connection of the battery, proceed as follows:

A CAUTION! - The backup battery should only be connected to the control unit after completing all phases of installation and programming, because the battery is an emergency power supply.



#### 6.6 - Solemyo System (only for SPYBOX B)

SPYBOX B is designed to be powered with the 'Solemyo' photovoltaic power system. For connection to the control unit, you must use the socket of the backup battery.

## ⚠ IMPORTANT! - When SPYBOX B is powered by the "Solemyo" system IT MUST NOT BE POWERED from the electricity mains at the same time.

SPY will perform a maximum number of operations per day depending on the amount of solar energy available at the installation location and the time of year.

Note – Before installing, it is important to check in the Solemyo instruction manual whether the maximum number of possible manoeuvres is compatible with its intended use.

Warning – In order to have effective performance from 'Solemyo' the 'Stand-by - All' function on the control unit needs to be ON: this function can only be activated using the Oview programmer.

#### 6.7 - Safety device for pedestrian door

The electrical board on the motor has a terminal for connecting a safety device for the pedestrian gate (microswitch Normally Closed - NC) that stops the motor if the pedestrian door remains open.

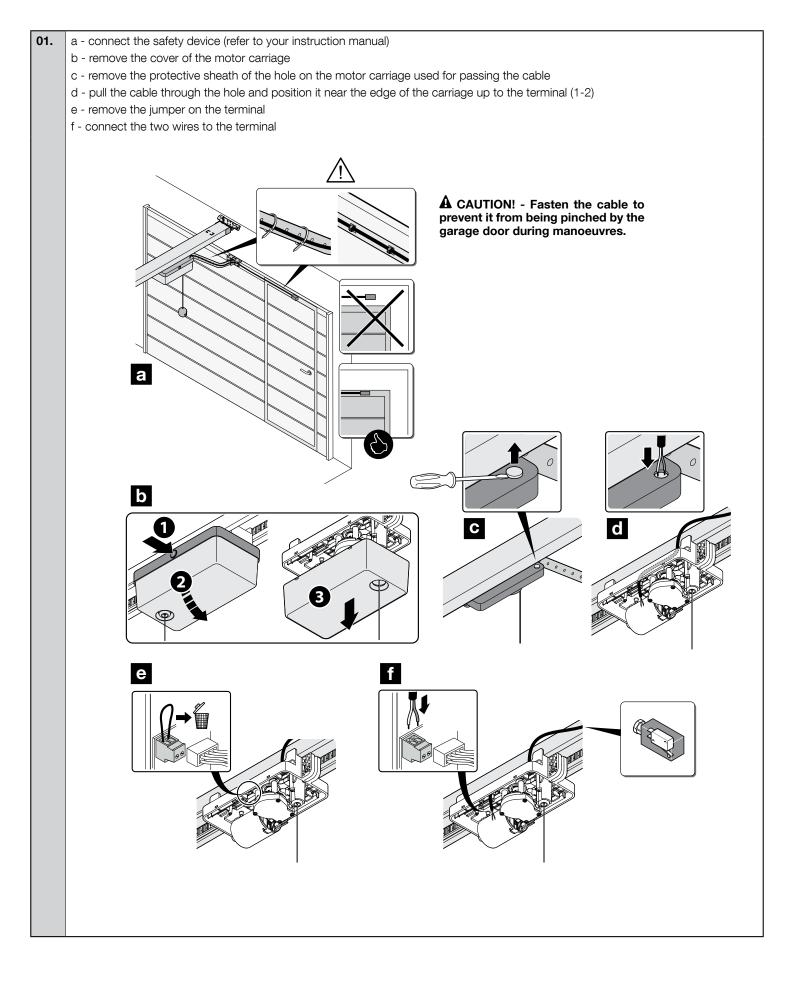
#### IMPORTANT! - Only use contacts with tripping current of at least 10 A.

The connecting cable must be:

#### Length = 3 m maximum

**Section = 1 mm<sup>2</sup> minimum** (diameter of cable route hole on the motor carriage is 6.5 mm)

For the connection, follow the instructions below.



#### 6.8 - "Move anyway" function

If one or more safety devices do not work properly or they are out of order, this feature allows you to control the motor in the 'Hold-to-run' mode all the same (for details see the chapter 'User Manual').

#### 6.9 - Diagnostics

Some devices are display messages to identify their status and faults.

#### 6.9.1 - Control unit signals

The green and red LEDs on the control unit produce special signals to report normal operation and any anomalies.

Table 10 lists the signals:

		Table 10			
LED OK /BB	Cause	Solution			
Off	Fault	<ul> <li>Check for presence of power supply; check that the fuses are not blown: in this case, identify the cause of the fault and then replace them with versions with the same specifications.</li> <li>Check for short-circuited cables.</li> <li>Check whether the control unit thermal cutout has tripped and switched it off. Wait for 1 minute and check whether it starts up again.</li> </ul>			
On for more than 20 seconds.	Fault	A serious malfunction has occurred; try switching off the control unit for 20-30 seconds; if the condition persists, it means there is a malfunction and the circuit board must be replaced.			
Flashing light	Ok	Normal control unit operation.			
Double flash	The status of the inputs has changed	This is normal when there is a change in one of the inputs: SS, STOP, OPEN, CLOSE, triggering of photocells, or the radio transmitter is in use or the PROG switch is on.			
Series of flashes with pause	Diagnostics	It corresponds to the flashing light or the courtesy signal (see Table 9).			
		0			
<u> </u>		LEDs with PROG selector positioned on the left			
L1 LED	Description	and the standard and a factor (Automotic Obstantia, 1997)			
Off	+ -	operation the device indicates 'Automatic Closing' is not active.			
On Claw fleebing		operation the device indicates 'Automatic Closing' is active.			
Slow flashing	If it flashes to	ogramming in progress.  ogether with L2, it means that the user must carry out the device acquisition phase (see section 5.3).			
L2 LED	Description				
Off	During normal operation the device indicates 'Close after photo' is not active.				
On Olava fla alaba a	During normal operation the device indicates 'Close after photo' is active.				
Slow flashing	<ul> <li>Function programming in progress.</li> <li>If it flashes together with L1, it means that the user must carry out the device acquisition phase (see section 5.3).</li> </ul>				
L3 LED	Description				
Off	_	operation the device indicates 'Always close' is not active.			
On		operation the device indicates 'Always close' is active.			
Slow flashing		ogramming in progress. Ogether with LED L4, the user must run the learning phase of the opening and closing positions (section 5.4).			
LED L4	Description				
Off		operation, the device indicates 'Standby' is not active.			
On	During normal	operation, the device indicates 'Standby' is active.			
Slow flashing		ogramming in progress. Ogether with LED L3, the user must run the learning phase of the Opening and Closing positions (section 5.4).			
LED L5	Description				
Off	During normal	operation the device indicates 'Test STOP 8K2' is not active.			
On	During normal	operation the device indicates 'Test STOP 8K2' is active.			
Slow flashing		ramming in progress.			
LED L6	Description				
Off		operation the device indicates 'Lock command buttons' is not active.			
On		operation the device indicates 'Lock command buttons' is active.			
Slow flashing	Function prog	ramming in progress.			
LED L7	Description				
Off	+ -	operation the device indicates 'Lock transmitter memorisation' is not active.			
On	_	During normal operation the device indicates 'Lock transmitter memorisation' is active.			
Slow flashing	Function programming in progress.				

LED L8	Description		
Off	During normal operation the device indicates 'Internal radio receiver' is activated.		
On	During normal operation the device indicates 'Internal radio receiver' is deactivated.		
Slow flashing	Function programming in progress.		

#### 6.9.2 - Flashing light signals or courtesy light - Flashing light signals or courtesy light

If a flashing light is connected to the FLASH output on the control unit, this will flash once every 1 second while the manoeuvre is being performed.

If any faults arise, the flashing light will produce shorter flashes that are repeated twice with a 1 second pause between each pair. The same signals are produced by the LED courtesy light and the OK/BB LED.

Table 11 lists the various signals:

Table 11							
Signal	Cause	Solution					
1 flash 1 sec pause. 1 flash	Bluebus system error	The check on which devices are connected to the BlueBus, performed at the start of the manoeuvre, does not reveal the same devices memorised during the device acquisition phase.  Some faulty devices may be present: check and replace them as necessary. If any changes have been made, you must rerun the device acquisition phase (section 6.2).  SPYBOX B version only.					
2 flashes 1 sec pause. 2 flashes	Triggering of a photocell	At the starting of the manoeuvre, one or more photocells do not enable it; check to see if there are any obstacles.					
3 flashes pause of 1 sec 3 flashes	Activation of the 'Motor Force' limiting device	While moving, the garage door experienced excessive friction; check the cause. If necessary, increase the value of the 'Motor Force' or reduce the 'Obstacle detection sensitivity' value					
4 flashes pause of 1 sec 4 flashes	Activation of the STOP input	At the start of or during the manoeuvre, the STOP input was activated; identify the cause.  You have enabled the 'Test STOP 8K2' but the edge connected to the STOP input is not of the 8K2 resistive type.					
5 flashes pause of 1 sec 5 flashes	Error in the internal parameters of the electronic control unit	Remove and then connect the mains power. If the error persists, run the 'Deletion of total memory' (section 5.7) and redo the installation. If the condition persists, there may be a serious fault and you need to replace the electronic board.					
6 flashes pause of 1 sec 6 flashes	Not used						
7 flashes pause of 1 sec 7 flashes	There is an error in the internal electric circuits	Disconnect the mains power supply to the control unit for 20-30 sec, then switch of again and try to send the command again. If the condition persists, there may be a serious fault on the board and you will need to replace it.					
8 flashes pause of 1 sec 8 flashes	A command that does not permit other commands to be performed is already present.	Check the type of command that is always present; for example, it may be a command from a clock on the "step-by-step" input.					
9 flashes pause of 1 sec 9 flashes	Lock automation	Send the 'Release Automation' command or command the manoeuvre with 'Step-by-Step High Priority'.					
10 flashes pause of 1 sec 10 flashes	During the position learning phase, there is no absorption by the motor	Verify that the connections between the cap with cable, the guide and the motor carriage are working.  Make sure that the motor cable is connected to the control unit.					
Rapid flashing of the courtesy light for 10 sec.	Short circuit or over-absorption on motor output	Check that there are no short circuits between the motor cables or between the guide and the co-extruded item. Check that the garage door is properly balanced.					

In case of malfunction due to problems during installation of failure of parts, refer to table 12:

	Table 12			
Problem	Solution			
The radio transmitter does not control the gate and the led on the transmitter does not light up	Check to see if the transmitter batteries are exhausted, if necessary replace them.			
The radio transmitter does not control the gate but the led on the transmitter lights up	Check to see if the transmitter has been memorised correctly in the radio receiver.  Check that the emission of the transmitter radio signal is correct by means of this empirical test: push a key and rest the LED on the aerial of a normal radio (ideally an economical one) that is switched on and tuned in, as close as possible, to 108.5 Mhz FM; a slight crackling sound should be heard			
No manoeuvre starts and the OK LED fails to flash.	Check that the product is being supplied 230 V mains power.  Check to see if the line fuse is blown; if it is, identify the reason for the failure and then replace the fuses with others having the same current rating and characteristics.			
No manoeuvre starts and the flasher is off	Check that the command is actually received: if the command reaches the Step-by-Step input, the OK led flashes twice to indicate that the command has been received			
Insert the motor carriage after performing maintenance	Remove the motor carriage from the guide.  • To avoid damage to the sliding contacts you must reposition them in their seats. Before inserting the motor carriage into the guide again, do the following:			

### S DISPOSAL OF THE PRODUCT

This product constitutes an integral part of the automation system, therefore it must be disposed of together with the former.

As in installation, also at the end of product lifetime, the disassembly and scrapping operations must be performed by qualified personnel. This product is made up of different types of material, some of which can be recycled while others must be disposed of. Seek information on the recycling and disposal systems envisaged by the local regulations in your area for this product category.

A CAUTION! - Some parts of the product may contain polluting or hazardous substances which, if disposed of into the environment, constitute serious environmental and health risks.



As indicated by the symbol, the product may not be disposed of as domestic waste. Sort the materials for disposal, according to the methods envisaged by current legislation in your area, or return the product to the retailer when purchasing an equivalent product.

▲ CAUTION! - Local legislation may include the application of serious fines in the event of improper disposal of this product.

### 9 MAINTENANCE

A CAUTION! – disconnect the power of SPYBOX or SPYBOX B and any backup battery before performing any task on the product. All maintenance operations that require the power supply to the control unit must be performed by a qualified technician.

A CAUTION! – the motor carriage is powered by low voltage through the guide and the insulated metal profile inside it. The use of lubricants such as oil or grease on these two components may degrade the electrical contact and lead to malfunctions. The guide and the profile must not be lubricated around the areas of the sliding contacts.

Clean the guide and the control unit at least once a year

01.	Disconnect the mains power supply and any backup batteries		
02.	Clean the guide with a damp cloth		
03.	Release the motor carriage and move the door by hand, checking that the motor carriage slides freely in the guide		
04.	Check that all the fixing screws are tight		
05.	Re-lock the motor carriage to its initial position		
06.	Clean the external box of the control unit and the photocell glass lenses (if present) with a damp cloth		
07.	After completing the cleaning, connect any backup batteries and provide power		

### 1 () TECHNICAL SPECIFICATIONS

▲ 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.

Control unit	SPY550	SPY650	SPY800	
Nominal voltage	230 Vac +/-10%			
Nominal frequency	50/60Hz			
Max. power	200W	250W	300W	
Nominal power	120W	150W	190W	
Standby power	1.5W	0.5W	0.5W	
Max. current	1.2A	1.4A	1.6A	
Operating temperature	-20°C; +55°C			
Protection class				
Maximum force	550N	650N	800N	
Nominal force	180N	200N	250N	
Maximum velocity	0.15 m/s		0.14 m/s	
Limits of use	See Chapter 1 and 2 (Table 1 and 2)			
Courtesy light	Integrated to LED			
Preparation for backup battery	No Yes (mo		d. PS324)	
Preparation for plug-in radio receiver	No	Yes (mod.	SMXI - OXI)	
Preparation for BusT4 connection	Yes Use of optional accessory mod. IBT4N			
Weight	5.3 kg		5.5 kg	
Packed size	3240 x 105 x 55 mm	1790 x 130 x 70 mm	4050 x 105 x 55 mm	
Guide				
Туре	3.2 m (single profile)	3.2 m (profile in 2 pieces)	4 m (3.2 + 0.8 m extension)	
Mounted rail length	3270 mm	3270 mm	4075 mm	
Useful stroke	2700 mm	2700 mm	3500 mm	
Weight	5 kg	5.85 kg	7.1 kg	
Packed size	3240 x 105 x 55 mm	1790 x 130 x 70 mm	4050 x 105 x 55 mm	
Integrated radio receiver				
Туре	Incorporated in 4 channels			
Frequency	433.92 MHz			
Coding	Digital Rolling code with 52 Bit FLOR type			
Transmitter compatibility	Family FLOR, ONE, ERA			
Transmitters memorized	100			
Transmitter range	From 10 to 80 m. The range can vary if there are any obstacles or electromagnetic disturbances			

#### CE declaration of conformity

Declaration in accordance with the following Directives: 1999/5/EC (R&TTE), 2004/108/EC (EMC); 2006/42/EC (MD) annex II, part B

Note - The content of this declaration corresponds to that specified in the official document deposited at the Nice S.p.A. headquarters and, in particular, to the latest revised edition available prior to the publishing of this manual. The text herein has been re-edited for editorial purposes. A copy of the original declaration can be requested from Nice S.p.A. (TV) I.

Number: 525/SPY Revision: 0 Language: IT

Manufacturer's Name: Nice s.p.a.

Address: Via Pezza Alta 13, Z.I. Rustignè, 31046 Oderzo (TV) Italy

Person authorised to compile

the technical documentation:

Electromechanical gearmotor with separate control unit for the automation of sectional and up-and-Type of product: over doors

Model / Type: SPY550, SPY650, SPY800

Accessories:

The undersigned Mauro Sordini, as Managing Director, hereby declares under his own responsibility that the product identified above complies with the provisions of the following directives:

- DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity, in accordance with the following harmonised standards:
- Health and safety (Art. 3(1)(a)): EN 62479:2010
- Electrical safety (Art. 3(1)(a)): EN 60950-1:2006+A11:2009+A12:2011+A1:2010+A2:2013
- Electromagnetic compatibility (Art. 3(1)(b)): EN 301 489-1 V1.9.2:2011, EN 301 489-3 V1.6.1:2013
- Radio spectrum (Art. 3(3)): EN 300 220-2 V2.4.1:2012
- DIRECTIVE 2004/108/EC OF THE EUROPEAN PARLIAMENT AND COUNCIL of 15 December 2004 on the approximation of the laws of Member States relating to electromagnetic compatibility and repealing Directive 89/336/EEC, in accordance with the following harmonised standards: EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011

In addition, the product conforms to the following directive in accordance with the provisions applicable to partly completed machinery: Directive 2006/42/EC OF THE EUROPEAN PARLIAMENT AND COUNCIL of May 17 2006 regarding machines and amending directive 95/16/EC (consolidated text)

- I hereby declare that the pertinent technical documentation has been drafted in accordance with Annex VII B of Directive 2006/42/EC and that the following essential requirements have been fulfilled: 1.1- 1.1.2- 1.1.3- 1.2.1-1.2.6- 1.5.1-1.5.2- 1.5.5- 1.5.6- 1.5.7- 1.5.8- 1.5.10- 1.5.11
- The manufacturer agrees to send the national authorities any pertinent information on partly-completed machinery, in response to a motivated request, without affecting its intellectual property rights.
- If the partly completed machinery is operated in a European country with an official language other than the language used in this declaration, the importer must include a translation with this declaration.
- The partly completed machinery must not be operated until the final machine in which it is to be incorporated is declared to conform to the provisions of Directive 2006/42/EC, if applicable.

The product also complies with the following standards:

EN 60335-1:2012, EN 60335-1:2002 + A1:2004 + A11:2004 + A12:2006 + A2:2006 + A13:2008+A14:2010+A15:2011 EN 60335-2-95:2003+A11:2009

All parts of the product subject to the following standards comply with them: EN 13241-1:2003+A1:2011, EN 12445:2002, EN 12453:2002, EN 12978:2003+A1:2009

Mr. Mauro Sordini (Managing/Director) Oderzo, 20 March 2015

# Operation manual (to be given to the final user)

- When you first use the automation, the installation technician must inform you about the origin of the residual risks and you must take time to read the user manual, with special attention to the general warnings (instruction manual).
- Make sure to keep the manual (delivered by the installation technician) for future reference and for handover to any further owner of the automation.
- Your automation system is a machine that will faithfully execute your commands; unreasonable or improper use may generate dangers: do not operate the system if there are people, animals or objects within its range of operation.
- Children: automation systems are designed to guarantee high levels of safety and security. They are equipped with detection devices that prevent movement if people or objects are in the way, guaranteeing safe and reliable activation. However, it is advisable to ensure that children do not play in the vicinity of the automation; remote controls should always be kept out of reach. It is not a toy!
- Checking the system: in particular all cables, springs and supports to detect possible imbalance, signs of wear or damage.
- Check on a monthly basis that the gearmotor performs a reverse manoeuvre when the garage door touches an object with a height of 50 mm.
- Do not use the automation if repairs or adjustments are required; any fault or an incorrectly balanced garage door may lead to physical injury.
- **Malfunctions:** if the automation is malfunctioning, shut off its power supply. Never attempt any repairs; contact your local installer for assistance.
- The system can be operated manually: release the gearmotor, as described in "Manual release and lock".
- Do not modify the system or its programming and adjustment parameters in any way, even if you feel capable of doing it: your installation technician is responsible for the system.
- The final test, the periodic maintenance operations and any repairs must be documented by the person who has performed them; these documents must remain under the custody of the owner of the system.
- **Disposal:** At the end of the automation's lifetime, ensure that it is disposed by qualified personnel and that the materials are recycled or scrapped according to current local regulations for this category of product.
- Control with safety equipment deactivated: the system can be controlled even if the safety equipment is not operational.

If the flasher flashes several times when a command is given (the number of flashes depends on the cause of the malfunction) but the gate does not respond, proceed as follows:

within 3 seconds, hold down a control; after 2 seconds the movement will start in 'hold-to-run' mode and will continue until you release the control.

**Important:** have the system repaired as soon as possible if the safety equipment is malfunctioning.

'Transit is allowed only if the gate is open and stationary'.

#### Maintenance:

To ensure that no one can activate the garage door, before you begin, remember to lock the automation (as described in "Manual release and lock") and disconnect all power sources.

In order to ensure constant levels of safety and the maximum useful life of the automation, it must undergo programmed maintenance work every 6 months.

A CAUTION! – The maintenance operations must be performed in strict compliance with the safety directions provided in this manual and according to applicable legislation and standards.

**01.** OFF

+ any backup batteries present

- **02.** Check for any deterioration in automation system components, paying special attention to erosion or oxidation of the structural parts. Replace any parts which are below the required standard.
- **03.** Check the wear and tear of the moving parts.
- **04.** Clean the rails and extrusion with a dry cloth to remove any dirt.

05.



Run all the tests and checks indicated in par. 4.1 - Testing.

#### Manual release and lock of the gearmotor

**01.** pull down the appropriate cord until you hear a double click

