



# Control system for garage doors

## Installer's instruction manual



**Product:**  
TVNRG868A01  
**Doc:**  
TEMP  
**Date:**  
07/09/2018

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## 1. PRODUCT DESCRIPTION

### TVNRG868A01

Control unit with integrated radio receiver for the remote control of tubular motors up to 450W, with built-in limit switch, for rolling shutters and rolling doors.

#### FEATURES

- Plastic case with easy fixing
- Front cover with up/stop/down buttons
- Integrated LED courtesy light
- Wireless control via radio transmitters
- Wireless safety edge with auto-test
- Bidirectional communication: door status is shown by the transmitter LED with different colour
- Alarm function, in combination with shock sensor (TVSSH868A01 and BST25S) and integrated speaker

#### CONNECTIONS & FUNCTIONING

- Wired inputs for safety edge (both resistive 8K2 and infrared)
- Wired inputs for command push-button and emergency STOP push-button
- Possibility to connect an external 240V~ courtesy light
- 2 Functioning modes: semi-automatic (automatic opening + hold-to-run closing) and automatic
- Automatic closing with programmable pause time
- Exclusion of the safety edge in the last part of the closure, in case of bumpy floor
- “Holiday mode” to lock the control unit with the front cover



Wireless system easy to connect



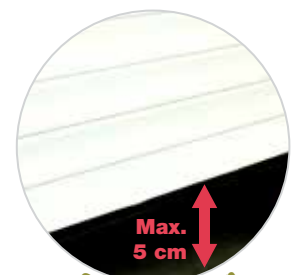
Wireless safety system



Front cover with up/stop/down buttons



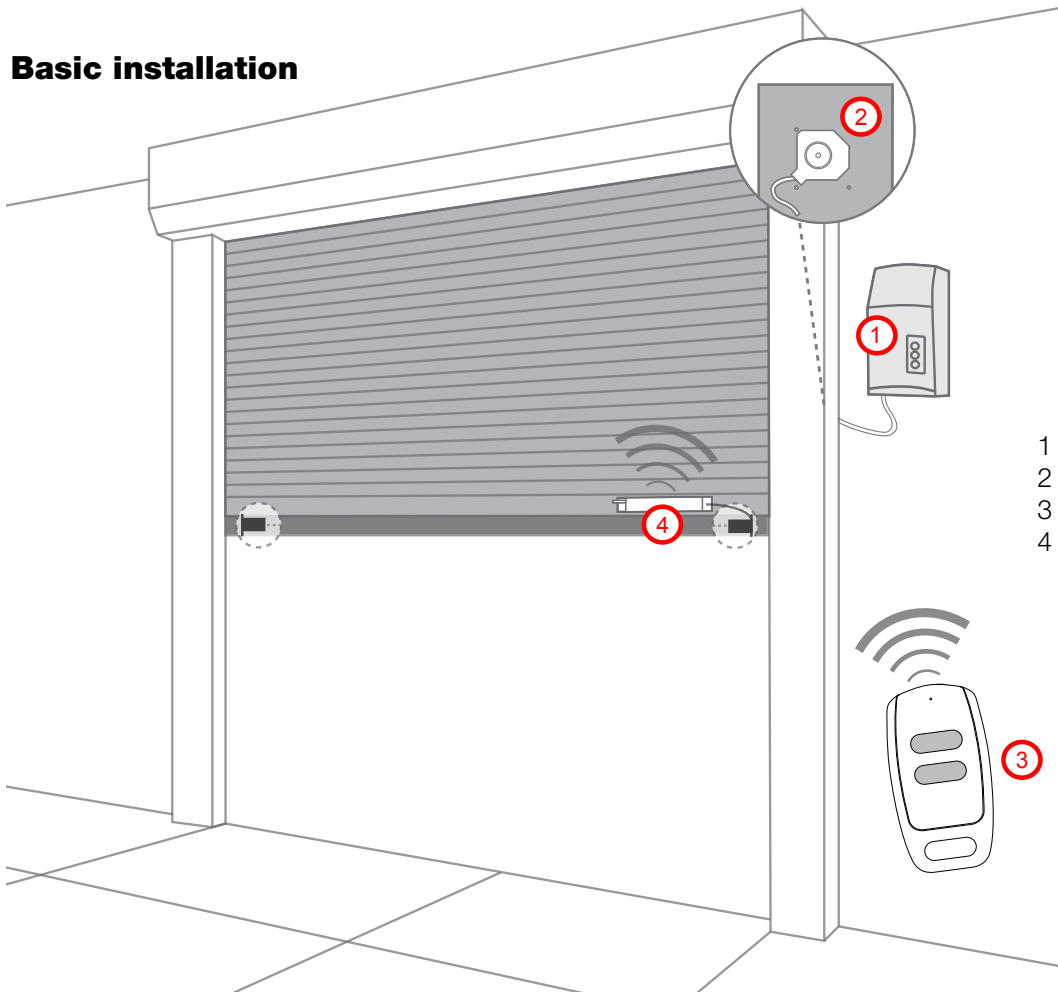
Optional alarm buzzer to be fitted in the case



Safety exclusion

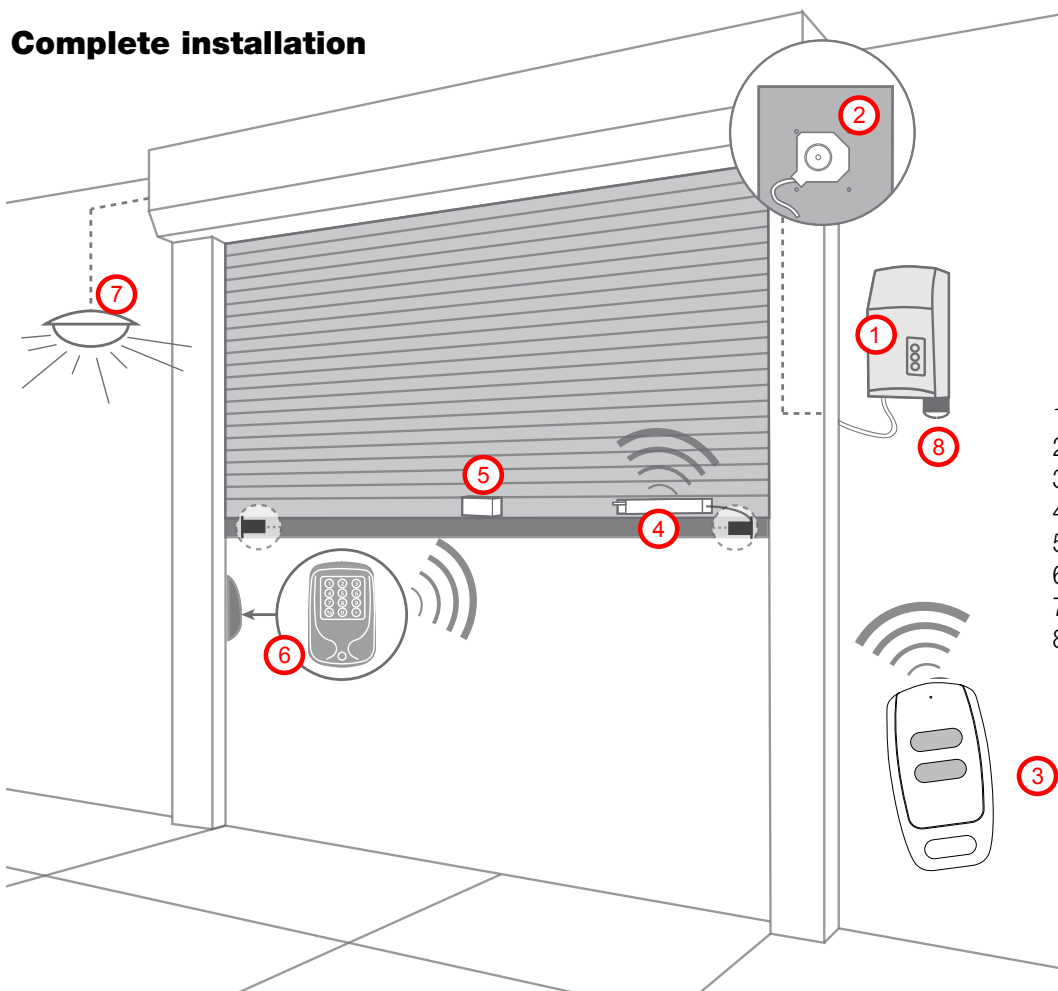
## 2. INSTALLATION

### Basic installation



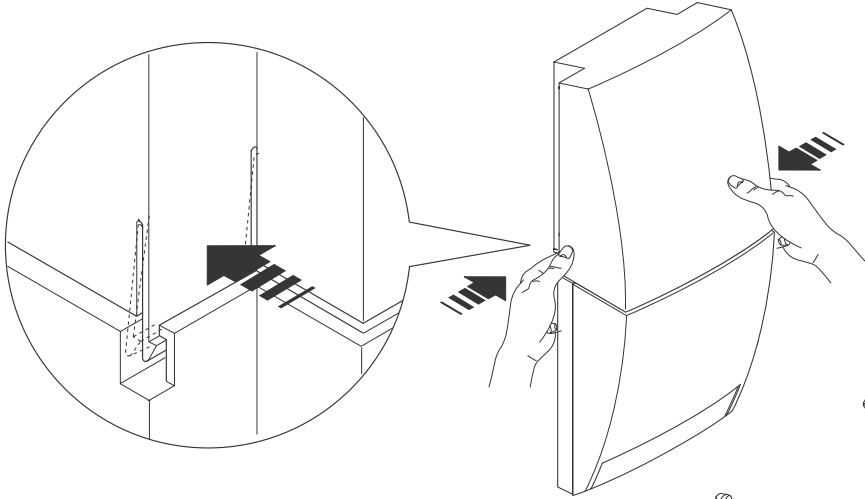
- 1 - NRG control unit
- 2 - Tubular motor (240Vac)
- 3 - Hand transmitter
- 4 - Safety edge wireless transmitter

### Complete installation

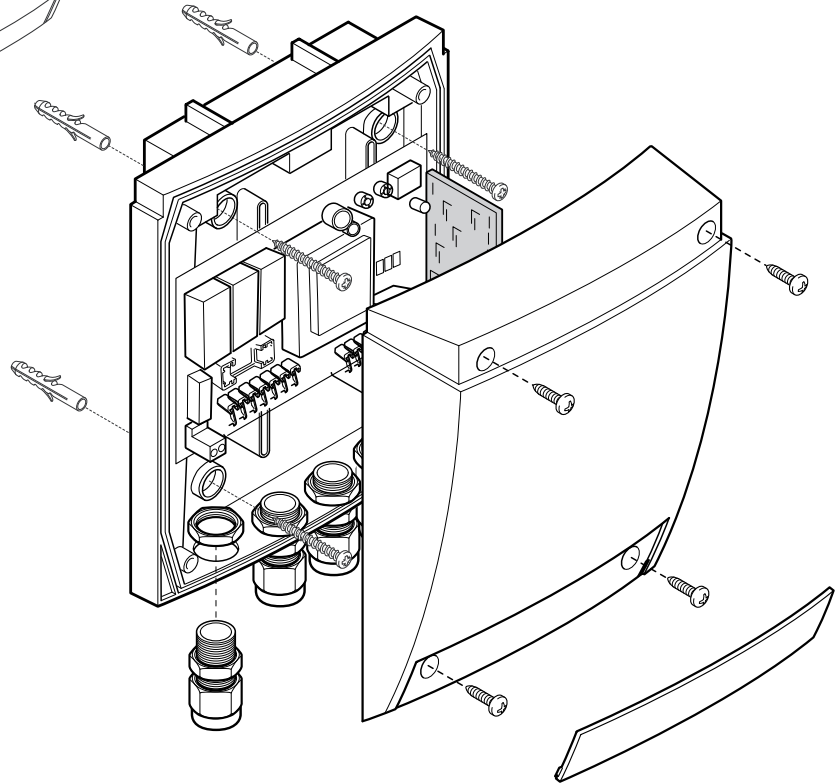


- 1 - NRG control unit
- 2 - Tubular motor (240Vac)
- 3 - Hand transmitter
- 4 - Safety edge wireless transmitter
- 5 - Alarm wireless sensor
- 6 - Wireless security keypad
- 7 - External courtesy light
- 8 - Alarm buzzer

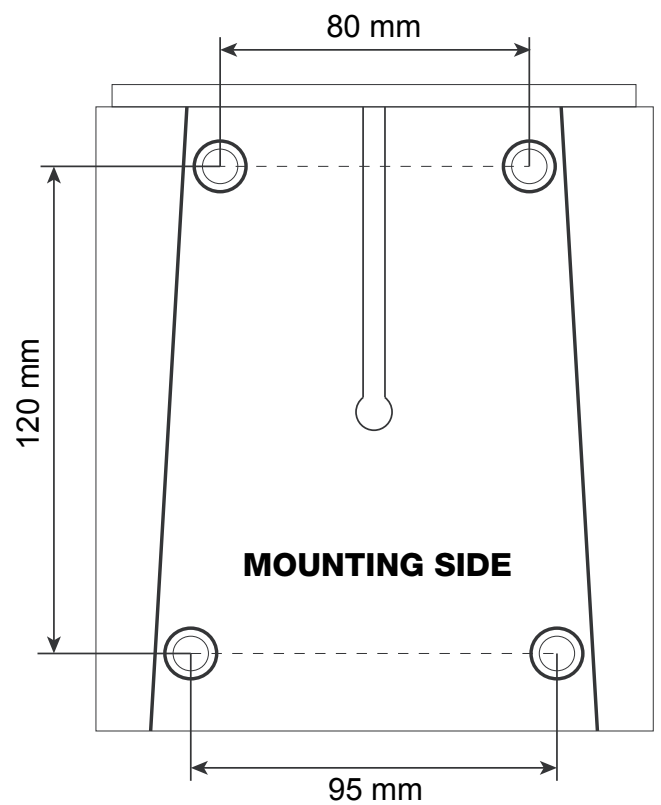
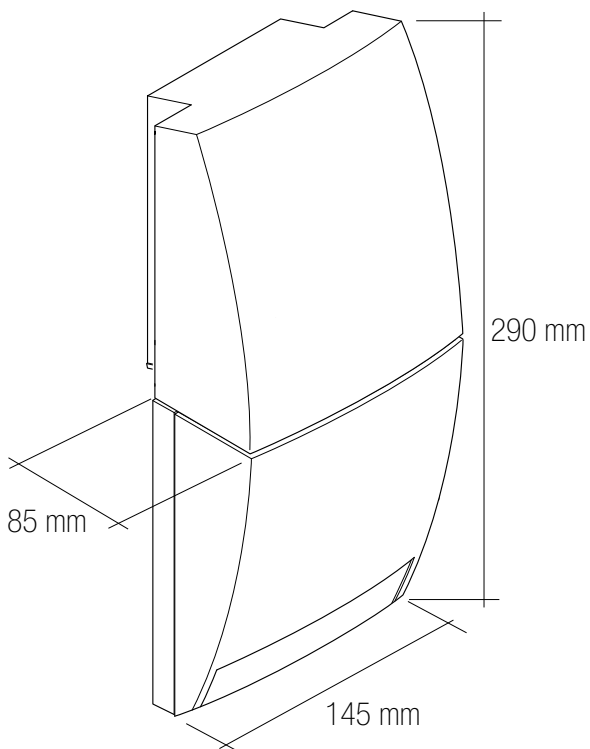
## 2.1 MOUNTING THE PRODUCT



**OPENING THE COVER**



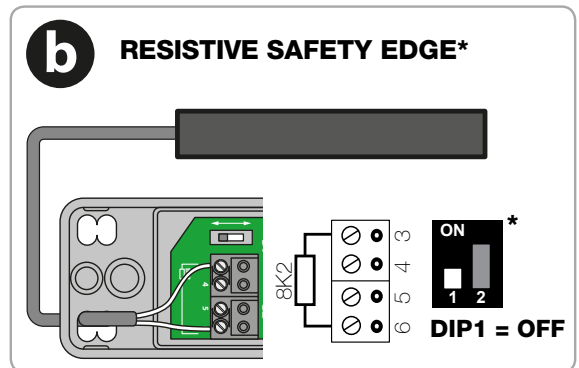
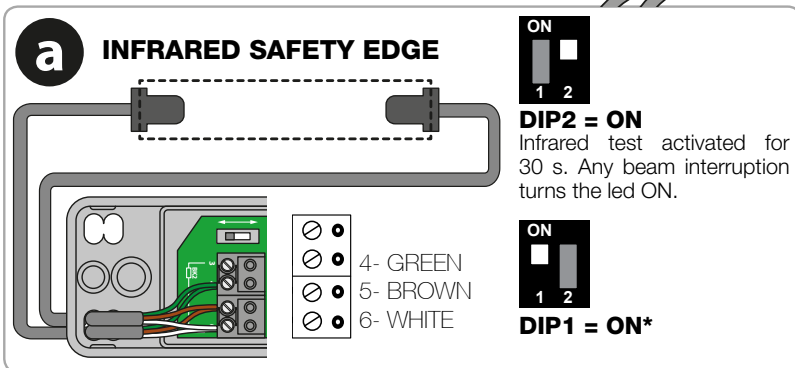
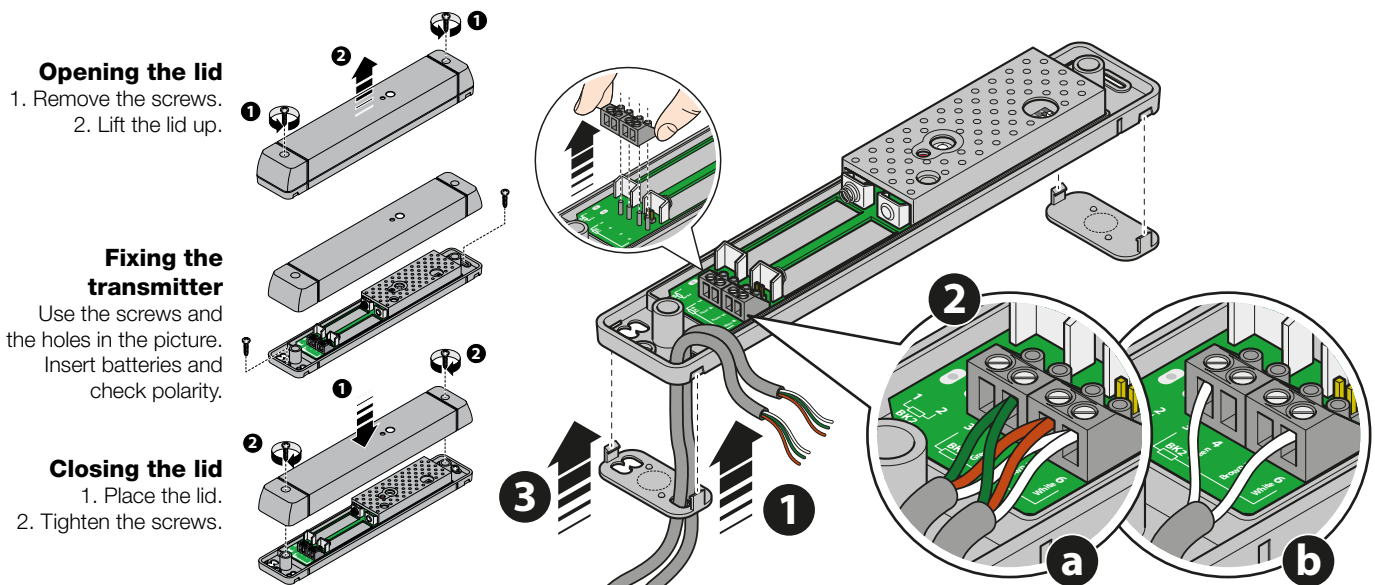
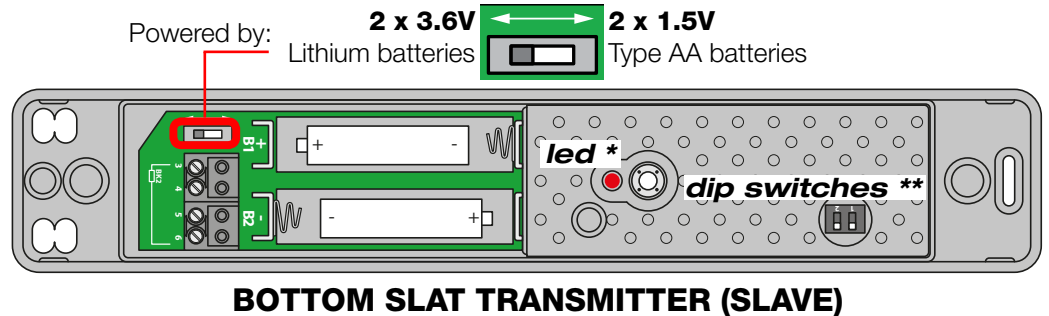
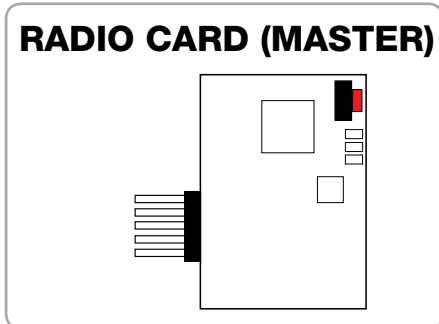
### BOX DIMENSIONS



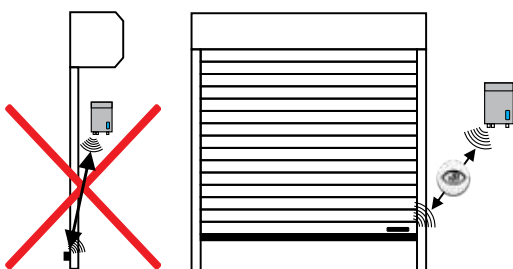
## 2.2 MOUNTING THE WIRELESS SAFETY SYSTEM (BST24/BST25/BST25S)

The system is composed by a radio card (MASTER), plugged in the control unit, and a wireless transmitter (SLAVE) mounted on the door, usually close to the bottom slat, connected to the safety device. The device has got infrared low-consumption barrier (both safety systems) or 8,2KOhm resistive barrier safety edge (only for BST24/BST25).

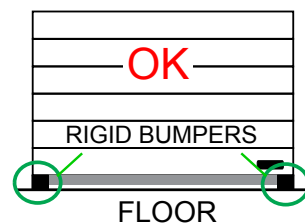
If an obstacle is detected during the closing, the SLAVE sends a signal to the MASTER that immediately stops the door and reverses its movement. The system performs an auto-test before any movement.



\* Only for BST24 / BST25

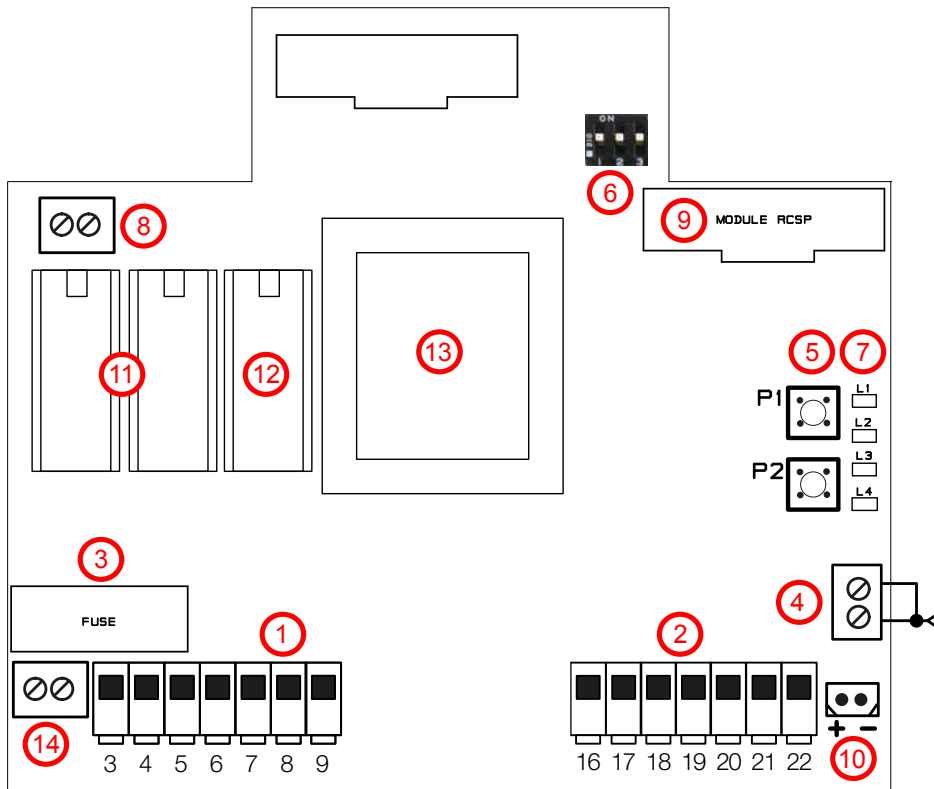


Install both the control unit and bottom slat transmitter **inside**. Make sure that there are no obstructions between devices. Check that the maximum distance between the devices is not more than **10m**.



We recommend to install at the base of the door, on both side of the safety edge, two **rigid bumpers**. In case of uneven floors, this can avoid an accidental activation of the safety edge. If it's not possible use the procedure 3.3.

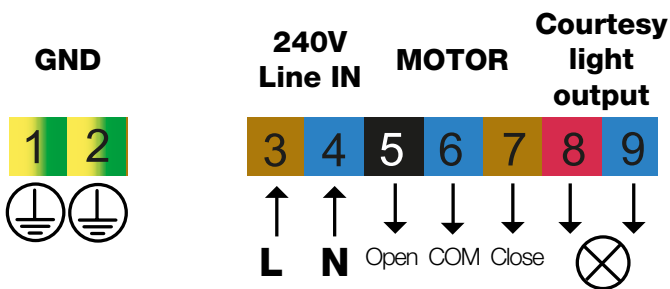
## 2.3 CONTROL UNIT DIAGRAM



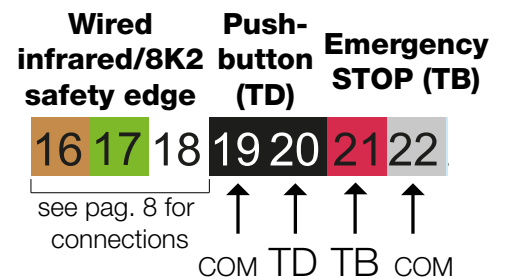
- 1 - High voltage terminals
- 2 - Low voltage terminals
- 3 - 3.15A fuse
- 4 - Aerial connection
- 5 - Programming/command buttons
- 6 - Dip switches
- 7 - Status/alarm LED
- 8 - LED courtesy light
- 9 - Socket for radio card (MASTER)
- 10 - Alarm buzzer output
- 11 - Manoeuvre relays
- 12 - Common relay
- 13 - Transformer
- 14 - Ground terminal

## 2.4 ELECTRICAL CONNECTIONS

### High voltage terminals



### Low voltage terminals

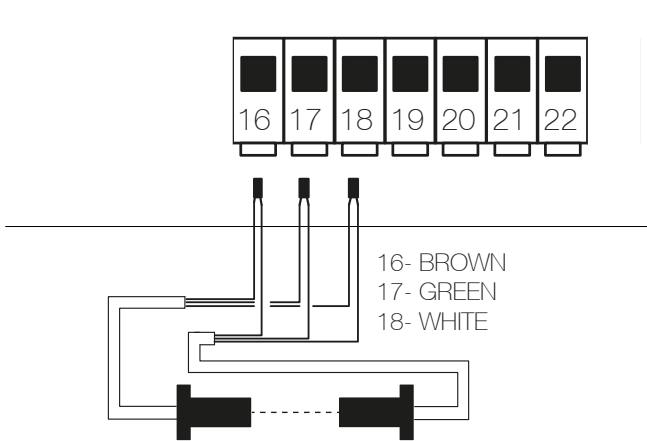


#	CONNECTION
1	Motor Ground
2	240V~ Power supply - Ground
3	240V~ Power supply IN - LIVE
4	240V~ Power supply IN - NEUTRAL
5	Motor - OPEN
6	Motor - COMMON
7	Motor - CLOSE
8	240V~ COURTESY LIGHT (300W max. lamp)
9	

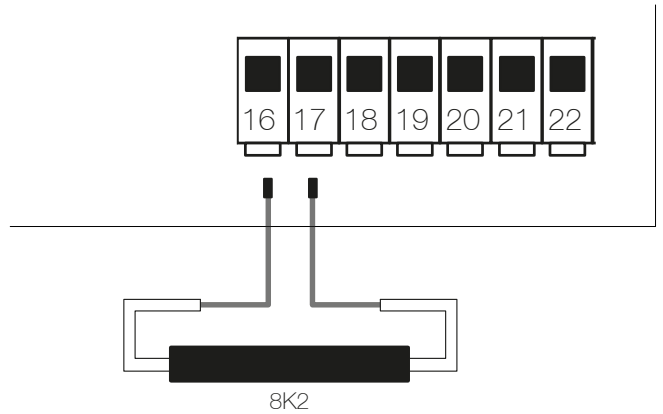
#	CONNECTION
16	Infrared/8K2 safety edge input (brown)
17	Infrared/8K2 safety edge input (green)
18	Infrared/8K2 safety edge input (white)
19	Push-button common (COM)
20	Push-button (step-by-step, N.O.)
21	Emergency STOP push-button (N.C.)
22	Emergency STOP push-button common

## 2.5 WIRED SAFETY DEVICE CONNECTIONS

### Infrared (IR) safety edge



### 8.2Kohm resistive safety edge

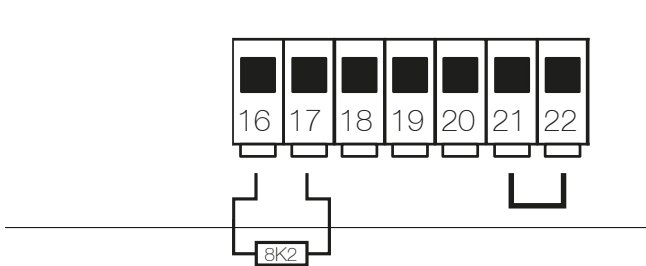


If no wired safety edge is used, connect a 8K2 resistor between terminals 16 and 17.

### NO WIRED SAFETY DEVICE CONNECTED

Connect a 8K2 resistor between terminals 16 and 17.

Terminals 21 and 22 must be closed by a jumper.





### 3. PRELIMINARY CHECK AND INITIAL START-UP

- **Step 1: motor limit switch setting**

A proper connection box should be used to set the limit switch before wiring the motor in the control unit or follow the procedure described on par. 3.1.

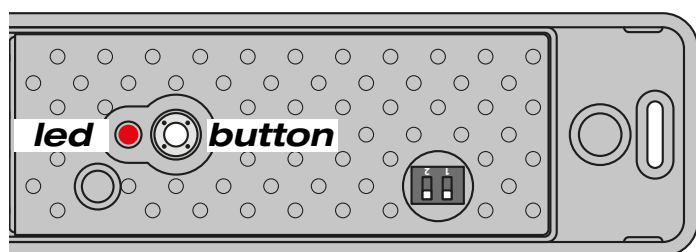
- **Step 2: motor connection and powering the board up**

Once the limit switches are set connect the motor to control unit and start the system up. The buzzer emits 3 quick sounds if the memory is empty or 1 long sound if the memory has radio codes in. After the power-on, the control unit executes **only opening commands** until the door is fully opened. Check the direction of the door; if the door is travelling in the wrong direction:

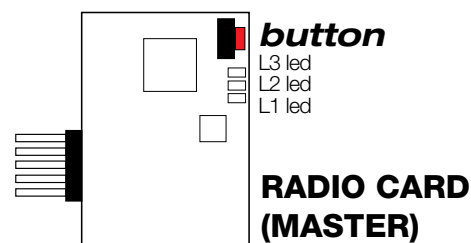
- 1- STOP the manoeuvre
- 2- Switch the control unit off
- 3- Swap BLACK and BROWN motor wires over - terminals 5 & 7
- 4- Power the board up again

- **Step 3: activation of the wireless safety device system**

Check that the bottom slat transmitter (SLAVE) is supplied by the batteries, the voltage selector is in the right position and all the connections are correctly made, as described at par. 2.2.



**BOTTOM SLAT TRANSMITTER (SLAVE)**



**button**

L3 led  
L2 led  
L1 led

**RADIO CARD (MASTER)**

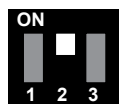
- 1- Push the button of the radio card (MASTER) for 2 seconds, L1 and L2 led will flash.
  - 2- Push the button of the bottom slat transmitter (SLAVE) for 2 seconds. Its led will flash.
- In case of correct memorization **L1 will costantly flash.**

Check the system pressing the button of the bottom slat transmitter (SLAVE) and keeping it pressed:

- **Slave led solid ON = OK**
- **Slave led flashing = No wireless communication**
- **Master L1 led must costantly flash**

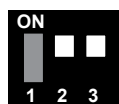
In case of problem, the system can be totally excluded with the procedure 3.2.

- **Step 4: functioning mode**



DIP2 **ON:** AUTOMATIC mode.

**OFF:** SEMI-AUTOMATIC mode. Automatic opening and hold-to-run closing. The automatic closure function is deactivated.



DIP2=DIP3 **ON:** Automatic closure function **activated**. Default time is 30 sec. This function has effect only when the door is totally open.

DIP3 **OFF:** Automatic closure function **deactivated** (default setting).

In case of any problem, refer to the paragraph "Troubleshooting" (par. 9).

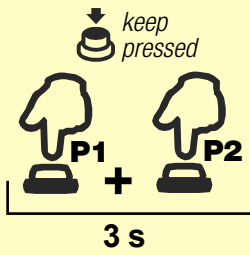
**WARNING: the control unit executes a brief inversion of the movement (1 second) if any error occurs. In case that the safety devices (except for TB input) are defective or they have been activated, it is possible to operate the door anyway, keeping pressed the command button for more than 5 seconds. The control unit will automatically switch to hold-to-run mode.**

### 3.1 Limit switches configuration

Factory setting: **ACTIVATED**

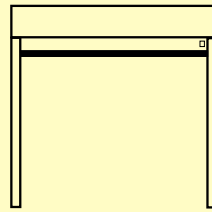
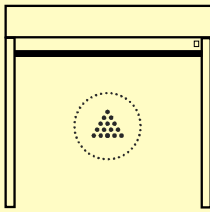
Procedure only with hold to run commands. **Warning:** The safety devices are excluded!

#### ACTIVATION

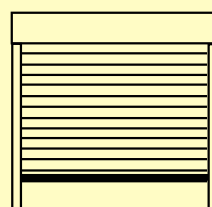
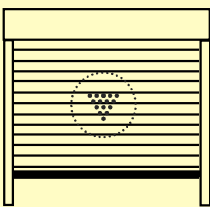
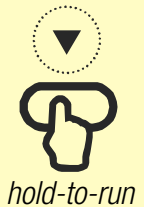


Press together **P1** and **P2** and keep them pressed for 3s. The buzzer makes one beep.

HOLD TO RUN  
L4 FLASH FAST

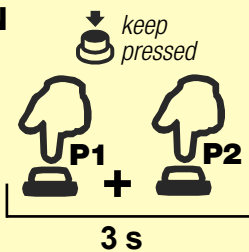


Open the door (in **hold-to-run** mode) in order to set up the upper limit switch.



Close the door (in **hold-to-run** mode) in order to set up the down limit switch.

#### DEACTIVATION

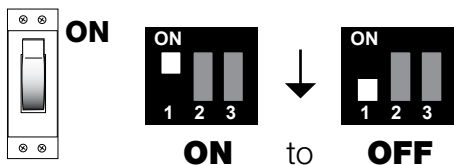


Press together **P1** and **P2** and keep them pressed for 3s or wait **time out time** of 90s from the last button pression. The buzzer makes one beep.

### 3.2 Deactivation of wireless safety system

This function is possible **ONLY** within 30 seconds from the power on of the control unit.

- **Switch the unit on and move DIP1 to OFF within 30 seconds.**



*By default DIP1 is ON (system activated).*

- **Press P1 button for 5 seconds and hold it down**

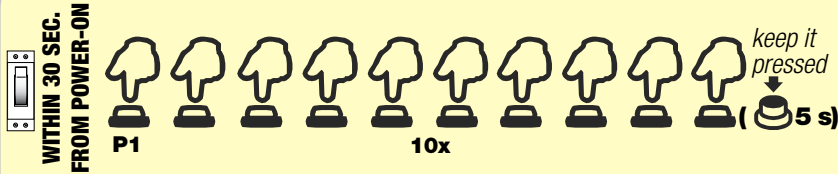
The control unit will emit **6 beeps** if the system has been correctly deactivated.

It is possible activate the safety system again, moving DIP1 from OFF to ON within 30 seconds from power-on. After keeping pressed P1 button for 5 seconds, the control unit will emit **7 beeps**.

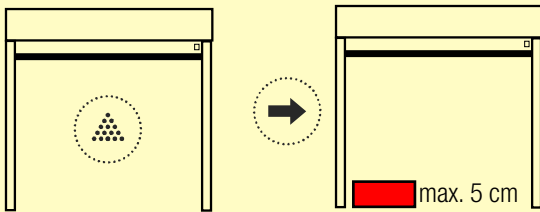
### 3.3 Exclusion of safety edge in the last 5 cm of the closure

In case of uneven floors, it could be necessary deactivating the safety edge in the last part of the closure (not more than 5 cm to comply with the standards) in order to avoid any accidental activation of the safety edge. This procedure must be performed by qualified installer only, who will take charge of its correct application.

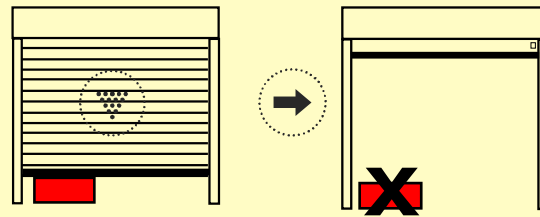
**WARNING: this procedure can be used only for doors which require more than 10 seconds each manoeuvre. The exclusion of the safety edge is applied only if the closure starts from the upper limit switch and it is not stopped.**



Press P1 button **ten times** and keep it pressed for **5 seconds**. The buzzer emits 3 beeps.



Open the door **completely** by means of a memorized transmitter. The buzzer emits a long beep when the upper limit switch is reached. Put on the floor, exactly under the door, a sturdy object not more than 5 cm high. Close the door (in **hold-to-run** mode), with **no interruption**. The door will stop at the obstacle and the control unit will make a long beep. Open the door **completely** and remove the object. Close the door to verify the correct application of the procedure.



#### DEACTIVATION



Press P1 button **eleven times** and keep it pressed for **5 seconds**. The buzzer emits 5 beeps.

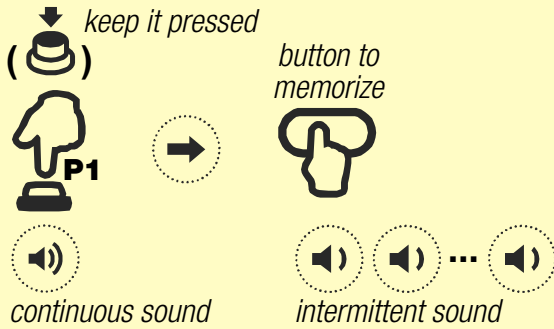
## 4. Transmitter memorization

This operation should be done using the button P1. Please refer to the schematic diagram on page 7 in order to localize the position on the board.

### 4.1 Single channel memorization

OPEN - STOP - CLOSE ► 

Memorization of a **single button** of any transmitter, with function **OPEN - STOP - CLOSE**



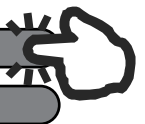

Press **P1 once** and keep it pressed.

The buzzer emits a continuous sound.

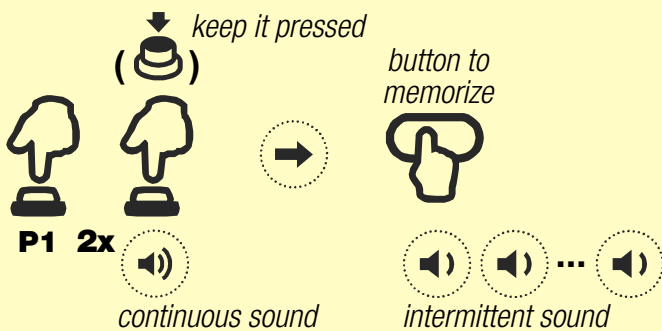
Press **any button** to memorize.

Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

### 4.2 Double channel memorization

OPEN (STOP) ►   
CLOSE (STOP) ► 

Memorization of **two buttons** of any transmitter in one step, with function **OPEN (STOP) - CLOSE (STOP)**






Press **P1 twice** and keep it pressed.

The buzzer emits a continuous sound.

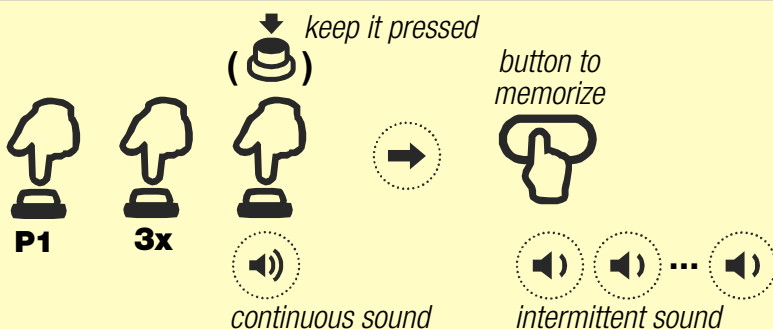
Press **any button of the pair** to memorize.

Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

### 4.3 Single channel: courtesy light ON/OFF

LIGHT ON - LIGHT OFF ►   
 

Memorization of a **single button** of any transmitter, with function **LIGHT ON - LIGHT OFF**



Press **P1 three times** and keep it pressed.

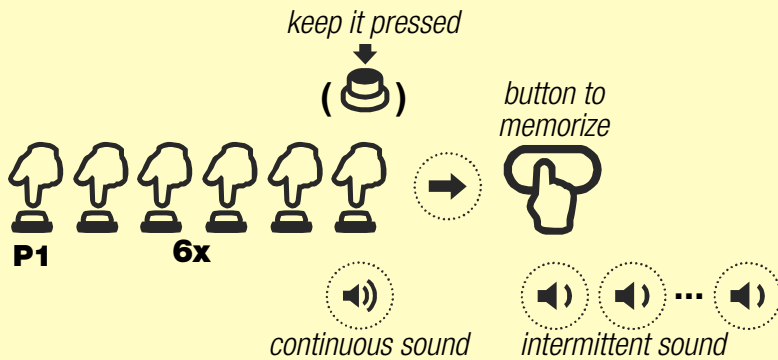
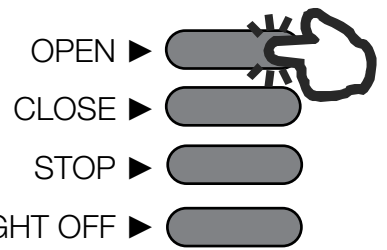
The buzzer emits a continuous sound.

Press **any button of the pair** to memorize.

Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

#### 4.4 Four channels memorization

Memorization of **four button transmitter** in one step.



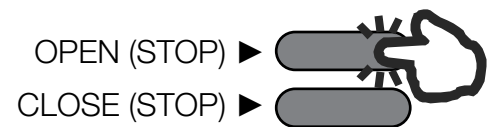
Press **P1 six times** and keep it pressed.

The buzzer emits a continuous sound.

Press **any button** of the transmitter to memorize.

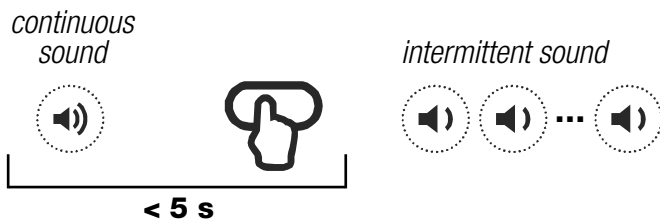
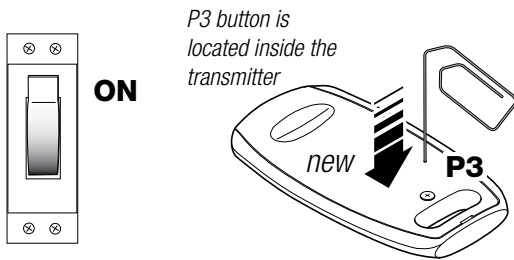
Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

#### 4.5 Remote memorization of the first transmitter



**Warning: The memory must be empty in order to perform this procedure.**

The added transmitter will have the double-channel function.

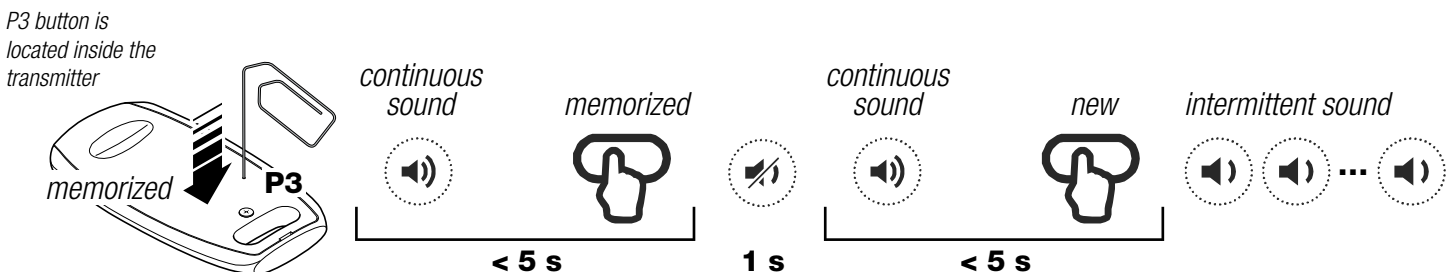


Press **once P3** button of a transmitter for 2 sec. **within 30 seconds** from power on. The buzzer emits a continuous sound.

Press any button of the pair to memorize. Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

#### 4.6 Remote memorization of further transmitters

The added transmitter will have the same functions of the transmitter used for the memorization. This procedure is compatible with any type of transmitter.



Press **once P3** button (twice if within 30 seconds from power on) of a memorized transmitter for 2 sec. The buzzer emits a continuous sound.

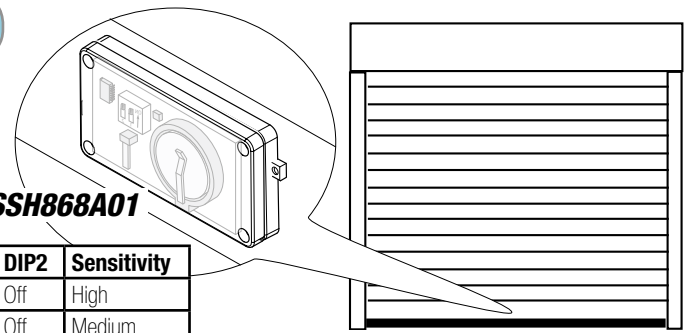
Press the button of a transmitter already memorized. The buzzer stops for 1 second, then sound continuously again.

Press the button of a new transmitter to memorize with the same functions. Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

## 4.7 Alarm function: shock sensor memorization

**Only for TVSSH868A01** (with BST25S is not necessary the shock sensor memorization).

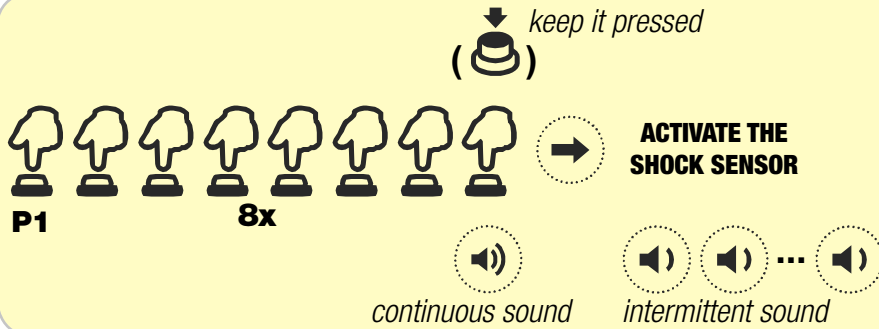
The wireless shock sensor (optional) detects any attempt of breaking or entering and send a signal to the control unit that will activate the speaker (optional) for 1 minute. It is possible to set the sensor sensitivity by means of the dip switches (see at side). Sending any opening or closing door command will stop the alarm.



DIP1	DIP2	Sensitivity
Off	Off	High
On	Off	Medium
Off	On	Low
On	On	Extra-low

**The garage door must be completely close.**

**Warning:** optional speaker must be connected!



Press **P1 eight times** and keep it pressed.

The buzzer emits a continuous sound.

**Activate the shock sensor.**

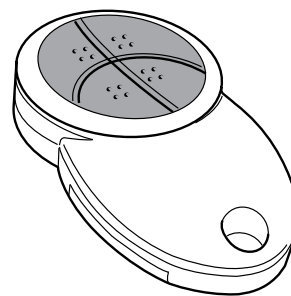
Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

## 4.8 Single channel: door status request ("ASK")

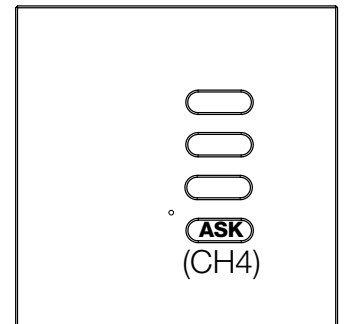
In case of using **bidirectional transmitters** it's possible to receive a feedback about the door status, shown by means of the transmitter's LED:

- Red led: **open door**
- Blue led: **closed door**
- Flashing led: **missing feedback**

DOOR STATUS REQUEST ("ASK")

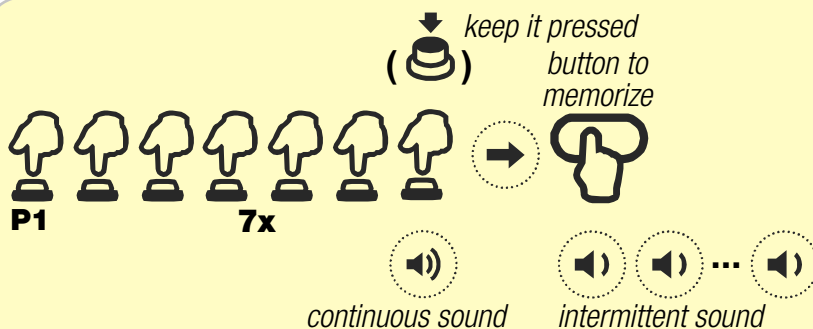


**TRTXP868x04**



**TRTXI868xx04**

**Warning:** the remaining free buttons of the transmitter should be memorized using the procedures **4.1**, **4.2** or **4.3**.



Press **P1 seven times** and keep it pressed.

The buzzer emits a continuous sound.

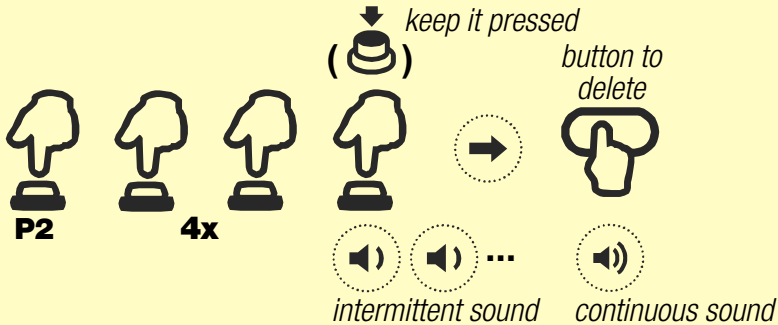
Press **any button** of **TRTXP** or **CH4** of **TRTXI**.

Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

## 5. TRANSMITTERS DELETION

This operation should be done using the button P2. Please refer to the schematic diagram on page 7 in order to localize the position on the board.

### 5.1 Deleting a single transmitter



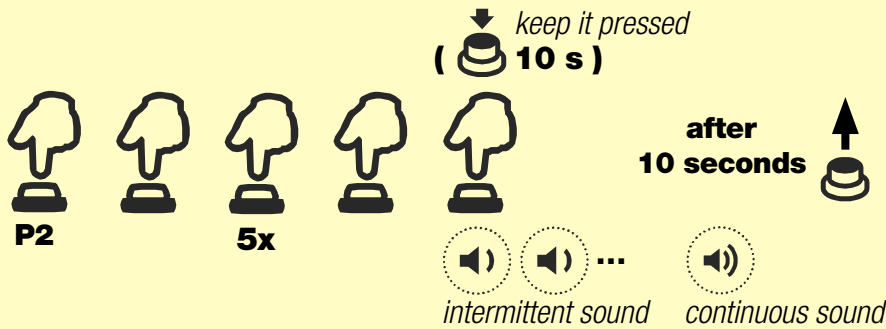
Press **P2 four times** and keep it pressed.

The buzzer emits an intermittent sound.

Press **the button** of the transmitter to delete.

Once the deletion is successfully completed, the buzzer emits a continuous sound.

### 5.2 Deleting all the transmitters



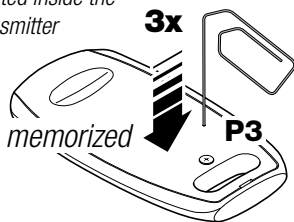
Press **P2 five times** and keep it pressed for at least **10 seconds**.

The buzzer emits an intermittent sound.

Release the button once the sound becomes continuous.

### 5.3 Remote deletion of a transmitter

P3 button is located inside the transmitter



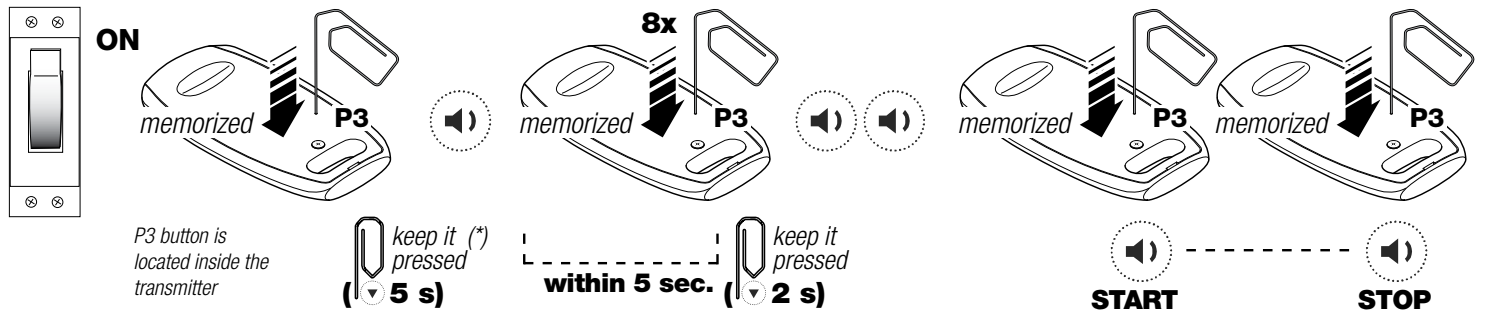
Press **3 times P3** button of a memorized transmitter and keep it pressed for 2 sec. The buzzer emits a slow intermittent sound.

Press the button of the transmitter to delete within 5 sec.

Once the deletion is successfully completed, the buzzer emits a continuous sound.

## 6.1 Auto close time setting

This procedure configures the time lapse between complete opening and the automatic closure (if enabled). The default time is **30 seconds**. It is possible to set the time from 5 seconds to 180 seconds.



(\*)The procedure can be executed only **within 30 seconds from power on**.

Press **P3** button of a memorized transmitter and keep it pressed for **5 seconds**. The buzzer will emit one beep.

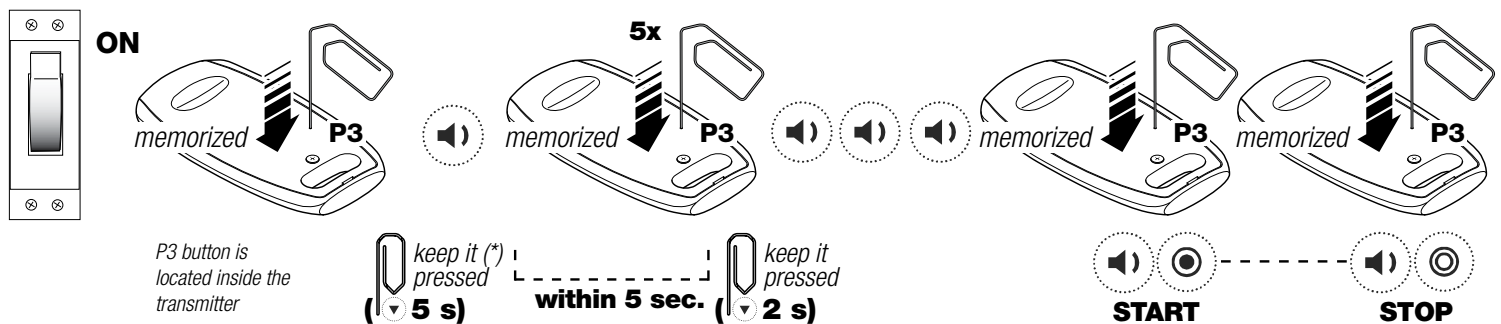
Release and press it again **eight times within 5 seconds** and keep it pressed for **2 seconds**. The buzzer will make **two** beeps at the end. In case of time-out, the control unit will sound four beeps and exit the procedure automatically.

Press once **P3** to start the counting of time. The buzzer will make one beep.

Press again **P3** to stop the counting after the desired lapse. The value will be memorized by the control unit.

## 6.2 Courtesy light time setting

This procedure configures the time of activation of the courtesy light (internal and external, if present). The default time is **90 seconds**. It is possible to set the time from 60 seconds to 12 hours.



(\*)The procedure can be executed only **within 30 seconds from power on**.

Press **P3** button of a memorized transmitter and keep it pressed for **5 seconds**. The buzzer will emit one beep.

Release and press it again **five times within 5 seconds** and keep it pressed for **2 seconds**. The buzzer will make **three** beeps at the end. In case of time-out, the control unit will sound four beeps and exit the procedure automatically.

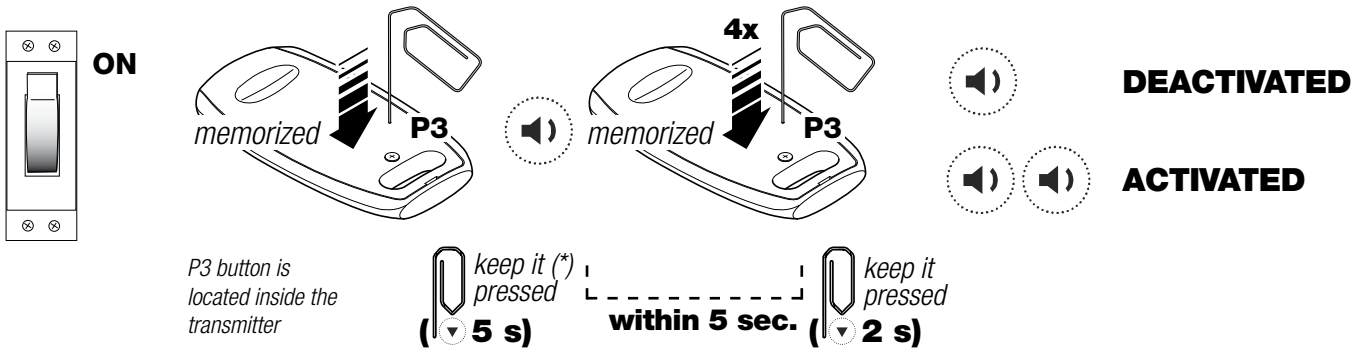
Press once **P3** to start the counting of time. The buzzer will make one beep.

Press again **P3** to stop the counting after the desired lapse. The value will be memorized by the control unit.



## 7.1 Motor torque control

This procedure activates or deactivates the motor torque control. The control unit will constantly check the level of current required by the motor during the movement in order to detect any anomaly in the normal operation of the door. In case of excessive effort, the control unit will stop and reverse the manoeuvre.



(\*)The procedure can be executed only **within 30 seconds from power on**.

Press the **P3** button of a memorized transmitter and keep it pressed for **5 seconds**. The buzzer will emit one beep.

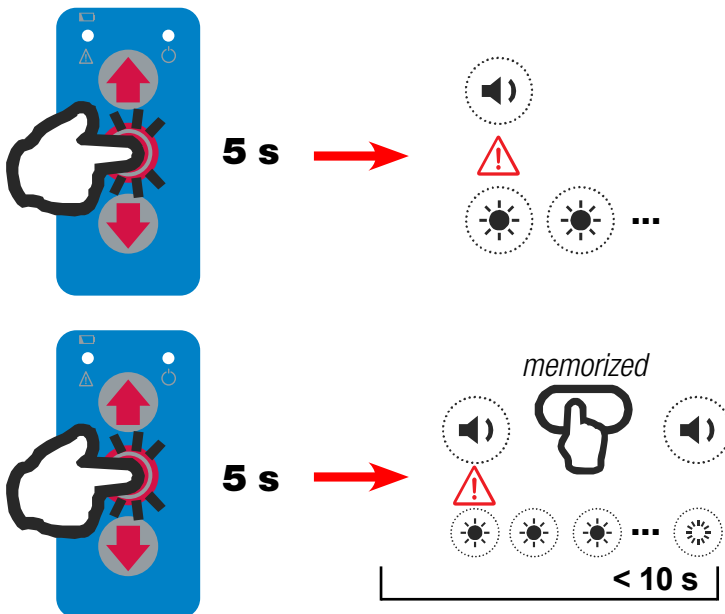
Release and press it again **four times within 5 seconds** and keep it pressed for **2 seconds**.

The buzzer will make **one beep** if the function is not active or **two beeps** if it is activated.

## 7.2 "Holiday mode"

The "Holiday mode" allows the user to temporarily lock the front cover buttons.

**Note:** when the mode is activated, wireless and wired input commands are still enabled.




### ACTIVATION


Press the **STOP** button in the front cover and keep it pressed for **5 seconds**.

The buzzer makes one beep.

### DEACTIVATION

Press **STOP** button in the front cover and keep it pressed for 5 seconds.

The buzzer makes one beep and LED  starts to flash faster.

Press any button of any memorized transmitter within 10 seconds. The buzzer makes one beep and LED  turns off.

## 8. TECHNICAL SPECIFICATIONS

Power supply	240V~ ÷ 50Hz
Operating temperature range	-20°C ÷ +50°C
IP rating	IP20
Motor characteristics:	
Voltage	240V~
Maximum power	450W
Maximum output power for flashing light	300W - resistive load (240V~)
Reception frequency	868.3MHz
Radio memory capability (transmitters)	32

### Wireless safety system BST25

Functioning range	10m
Answering time in manoeuvre	< 100ms
Carrier frequency	2.4GHz
Power supply	2 x 1.5V AA or 2 x 3.6V lithium batteries
Consumption when transmitting	13mA

The manufacturer, Teleco Automation s.r.l, declares that the type of radio equipment is compliant with Directive 2014/53/EU. The full text of the EU compliance declaration is available at the following Internet address: [www.telecoautomation.com/ce](http://www.telecoautomation.com/ce).


## 8.1 WARNINGS

The above mentioned product must be installed only by qualified technical personnel in compliance with the standards of automatic openings. All connections must be rated for a single-phase power supply of 240V. For the disconnection from the power line, use an all-pole switch with contact with an opening of at least 3.5 mm. Only suitable materials for the connections must be used to guarantee insulation that complies with current standards on the subject of electrical safety. All the necessary safety devices are to be seen separately. Incorrect wiring will cause incorrect functioning impairing the safety purpose for which the product has been designed so that people injuries could occur; failure to follow instructions can cause personal injury and/or property damage. The correct functioning of the product must be checked once a year. Keep the 240V wires separately from the low voltage safety wires. The earth-wires must be fixed with an additional fastening on the terminals; this fastening has to be done by qualified technical personnel during the installation phase. The appliance has been tested with a power supply wire type H05VV-F; the power supply wires for outdoor use have not to be lighter than the ordinary wires type H05RN-F. The safety devices have to be in conformity with EN12978. The installation of the control unit has to be done by fixing the box vertically with the cable glands downwards. The product is in conformity with the RAEE and RoHS directive. The earth wire must be longer than the other wires because it must be the last to break off if the cable clamps are slack. Remember that there are specific standards that must be complied with both as regarding the safety of the electrical systems and as regarding the remote control of tubular motors for roller blind.

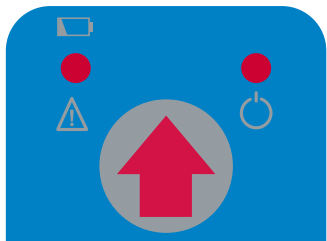
In the view of a constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice.

## 9. TROUBLESHOOTING (What to do if...)

### Acoustic signals from the control unit

Sequence	Meaning	Solution
1 constant beep (continuous or intermittent)	Faulty control unit	Replace the control unit
2 beeps	Motor problem	<ul style="list-style-type: none"> <li>- Set the limit switches</li> <li>- The thermal protection could be activated. Wait while the motor cools down.</li> <li>- Check the motor connection</li> <li>- Test the motor separately by means of a proper tool</li> </ul>
3 beeps at startup	Radio receiver is empty	Memorize at least one transmitter
4 beeps	Radio receiver is full	Max. number of transmitters exceeded
5 beeps (L2 = ON)	Safety test failure: wired safety edge	<ul style="list-style-type: none"> <li>- Check the rubber profile general condition</li> <li>- Check photocells alignment and the connections</li> </ul>
5 beeps (see also the  led on the front cover)	Safety test failure: wireless safety edge system	<p><b>Control unit checks</b></p> <ul style="list-style-type: none"> <li>- The radio card (master) must be correctly inserted in the plug: check all the pins</li> <li>- The radio card (master) must be paired with the bottom slat transmitter (slave)</li> </ul> <p><b>Bottom slat transmitter checks</b></p> <ul style="list-style-type: none"> <li>- Check type, polarity and charge level of the batteries</li> <li>- Check functionality by pressing the button</li> <li>- Check the DIP1 position (at par. 2.2)</li> <li>- Check wiring between bottom slat transmitter and sensitive edge (terminals and wire colour)</li> </ul> <p><b>Sensitive edge checks</b></p> <ul style="list-style-type: none"> <li>- Check the rubber profile general condition</li> <li>- Check the functionality by means of the testing procedure with DIP2 (at par. 2.2)</li> </ul>
5 quick beeps every 5 seconds	Low batteries in the bottom slat transmitter	Replace the batteries as soon as possible. Pay attention to the polarity.
6 beeps (L3 = ON)	Safety test failure: emergency STOP (TB)	Check the safety device connected and the connections
8 beeps	Limit switch error: the manoeuvre exceeded the working time.	Check the limit switches and, in case, set them again
9/10 beeps	One of the relay is defective (see the diagram at page 7)	Replace the control unit

## Led in the front cover



Led 

**ON:** safety alarm activate (see the specific alarm).

**OFF:** normal functioning.

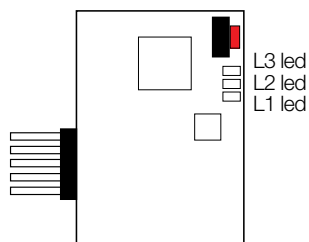
**1 flash - pause:** keypad locked (holiday mode).

**Flashing slowly:** low batteries in the bottom slat transmitter (TCSP)

Led 

**ON:** The control unit is powered.

## Radio card (MASTER)



**L1** led

**Flashing:** normal functioning.

**ON:** transmission error or drained batteries.

**L2** led


**ON:** activated safety alarm, transmission error or drained batteries.

**OFF:** normal functioning.

**L3** led

Not used.

## Other possible issues

Problem	Solution
None of the previous signals, but the door doesn't move downward	Command an opening manoeuvre until the top limit has reached.
In the closure, the door hits the floor and opens again	- The bottom limit could be too low, adjust it upwards - In case of uneven floor use the procedure 3.2 to deactivate the safety edge in the last part of the closure. It is necessary to command the closure starting from the upper limit switch in order to be effective.
The door can be operated but the safety systems don't activate	Check the motor direction. If wrong, swap brown and black motor wires over (terminals 5 & 7)
The control units responds to the commands sent by transmitters, but the front cover is not functioning	- Check if the connection flat cable is correctly inserted in the board plug - If the  led is flashing once per second, the "holiday mode" is activated (see page 15)
The fuse blows while operating the door	Check again the wirings

**WARNING:** in case that the safety devices (except for TB input) are defective or they have been activated, it is possible to operate the door anyway, keeping pressed the command button for more than 5 seconds. The control unit will automatically switch to hold-to-run mode.



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