



Control system for garage doors

Installer's instruction manual



Product:
TVNRG868E04

Doc:
T928.01_EN

Date:
02/09/2021

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1

PRODUCT DESCRIPTION



TVNRG868E04

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

- Compact plastic case with easy fixing
- Front cover with buttons for up/stop/down commands and LED for alarms status
- 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

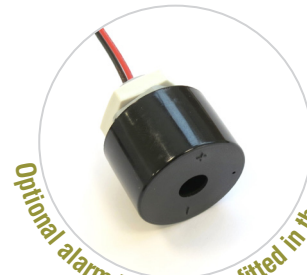
- Wired inputs for safety edge (both resistive 8K2 and infrared)
- Wired inputs for command push-button and emergency STOP push-button
- Possibility to connect an external 240Vac courtesy light
- 2 Functioning modes: semi-automatic (automatic opening + hold-to-run closing) and automatic
- Automatic closing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



Wireless system easy to connect



Front cover with up/stop/down buttons



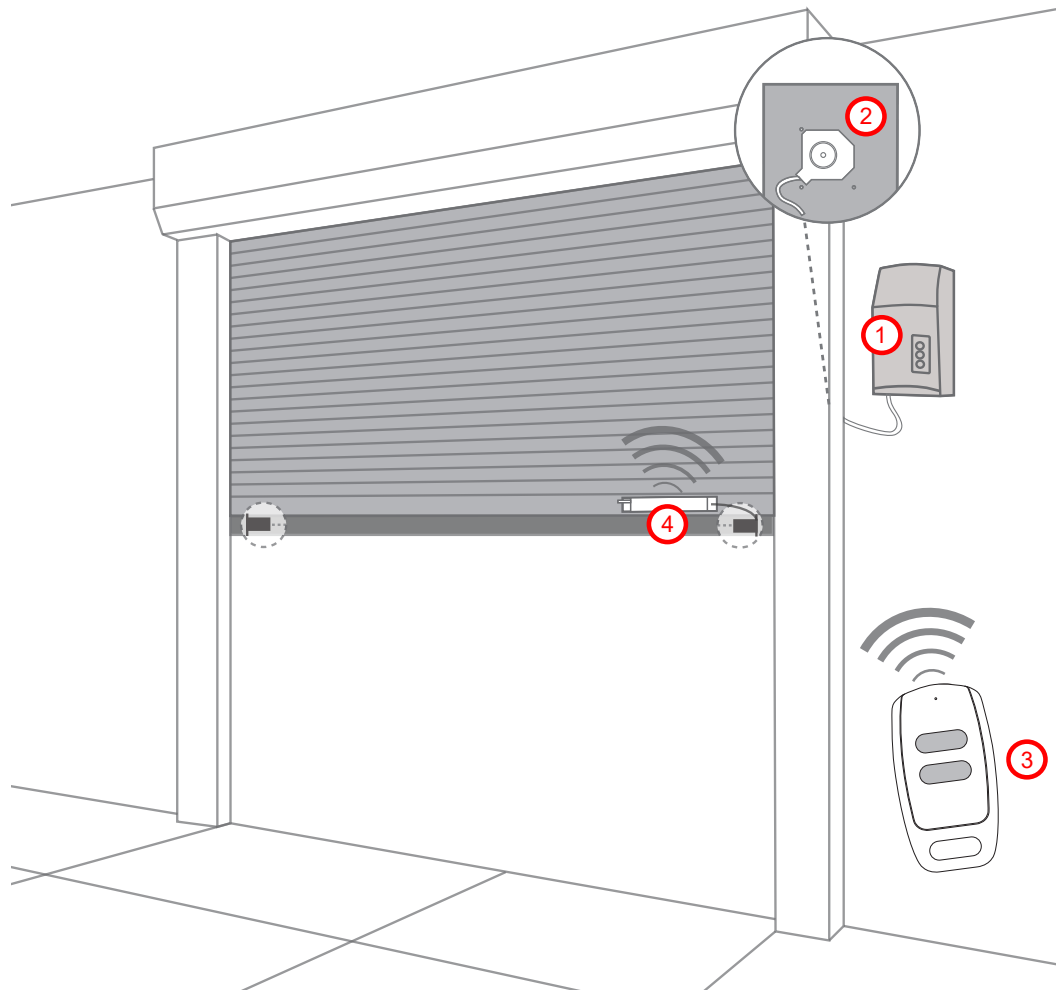
Optional alarm buzzer to be fitted in the case



Wireless safety system

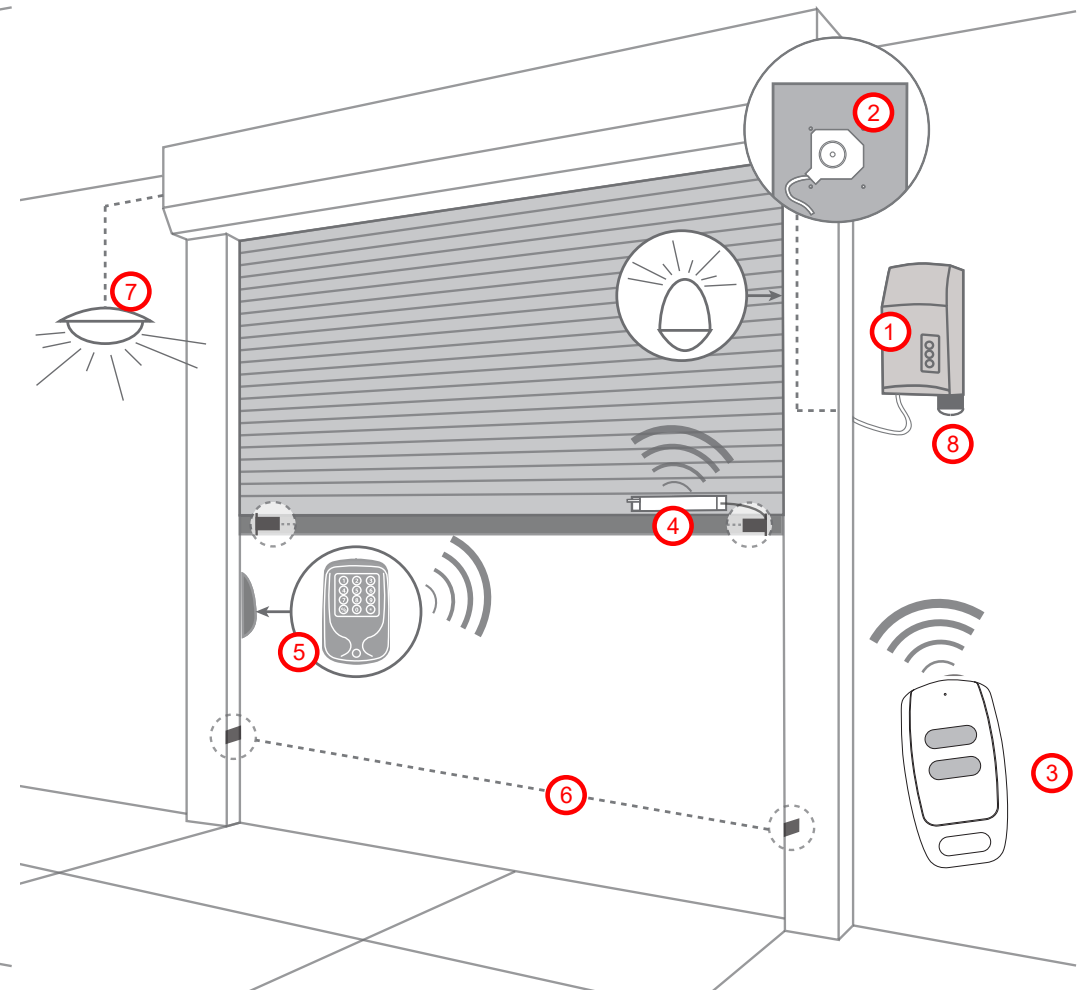


Basic installation



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

Complete installation



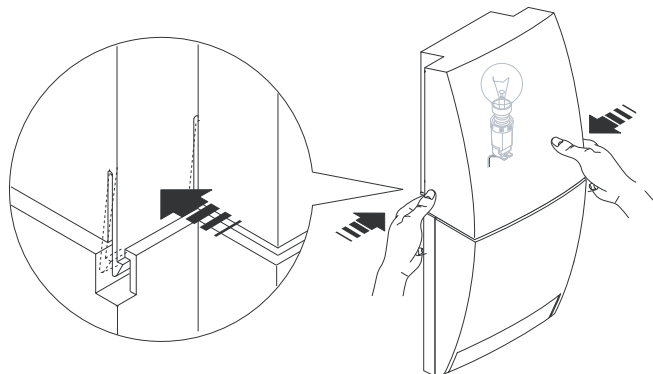
- 1 - NRG control unit
- 2 - Tubular motor (240Vac)
- 3 - Hand transmitter
- 4 - Safety edge wireless transmitter
- 5 - Wireless security keypad
- 6 - Wired photocells
- 7 - External courtesy light
- 8 - Alarm buzzer

2.1

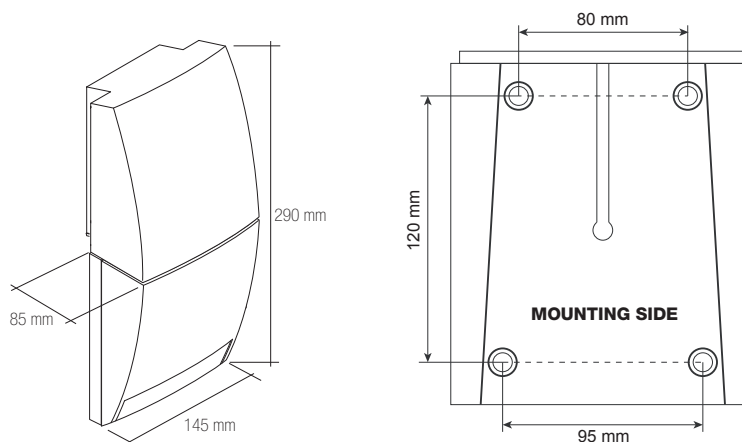
MOUNTING THE PRODUCT



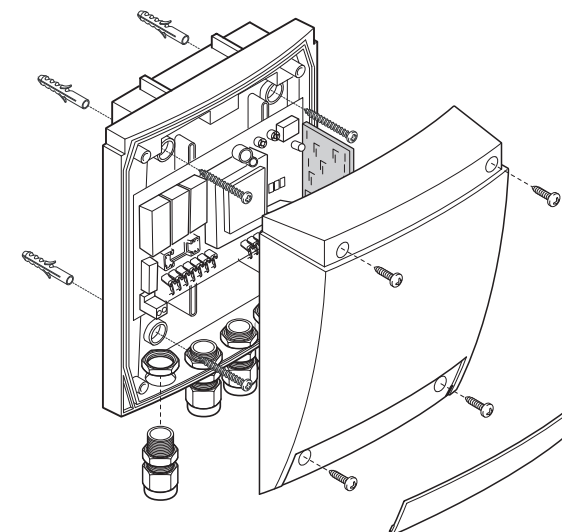
OPENING THE COVER



BOX DIMENSIONS

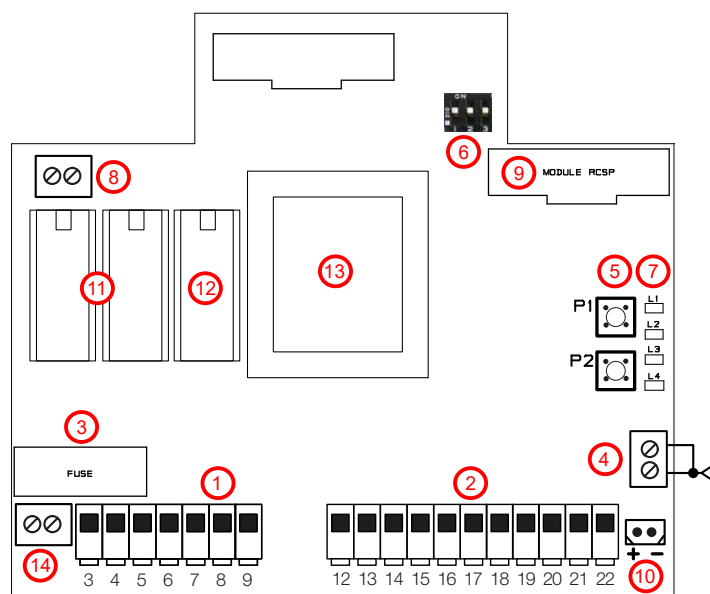


MOUNTING SIDE

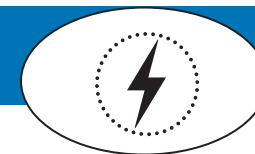


2.2

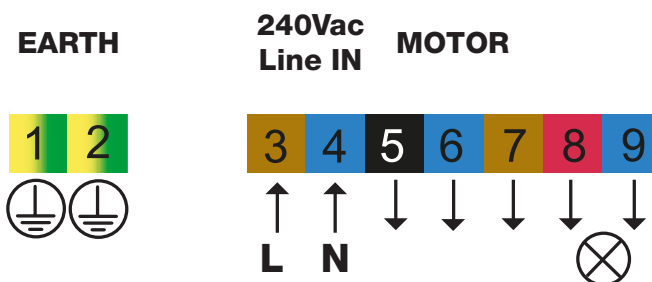
CONTROL UNIT DIAGRAM



Nr	Description	LED	Meaning
1	High voltage terminals	L1	Flashing: normal functioning
2	Low voltage terminals		ON: transmission error or drained batteries
3	3.15A fuse	L2	ON: activated safety alarm, transmission error or drained batteries
4	Aerial connection		OFF: normal functioning
5	Programming/command buttons	L3	ON: activated safety alarm, transmission error or drained batteries
6	Dip switches		OFF: normal functioning
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	Earth terminal		

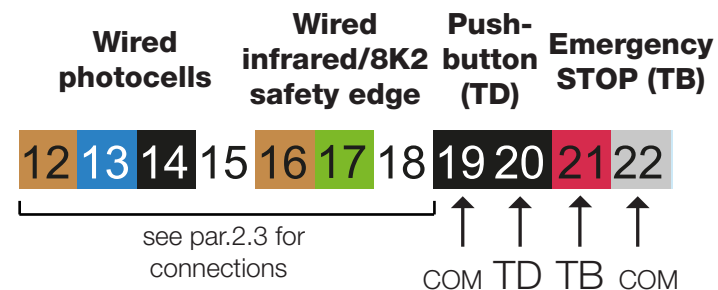


High voltage terminals



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

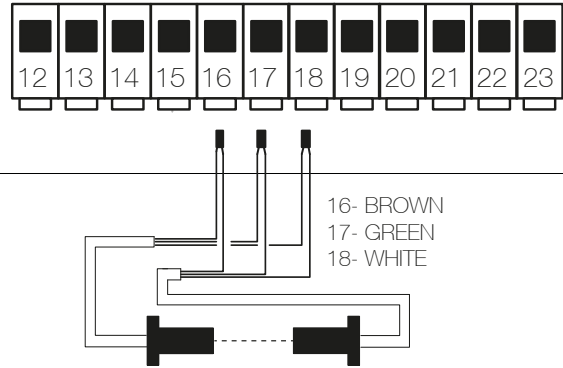
Low voltage terminals



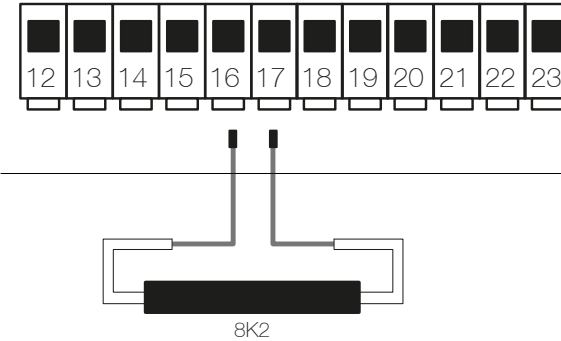
#	CONNECTION
12	Photocells power supply (+12Vdc)
13	Safety common (COM)
14	Photocells power supply (0Vdc)
15	N.C. contact FTC (photocells)
16	Infrared/8K2 safety edge input (brown)
17	Infrared/8K2 safety edge input (green)
18	Infrared/8K2 safety edge input (white)
19	Push-button common (COM)
20	Push-button (step-by-step, N.O.)
21	Emergency STOP push-button (N.C.)
22	Emergency STOP push-button common



Infrared (IR) safety edge

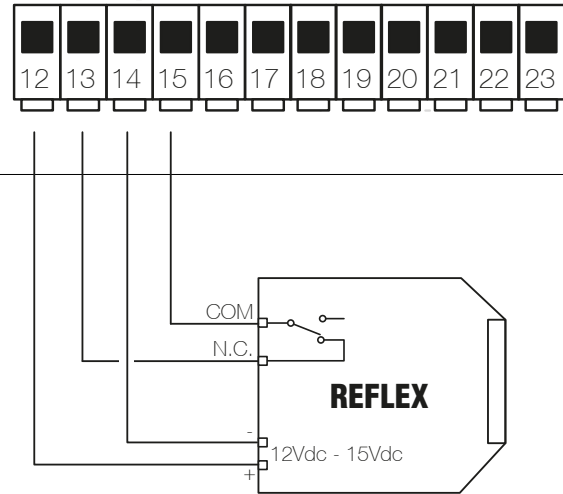


8.2Kohm resistive safety edge

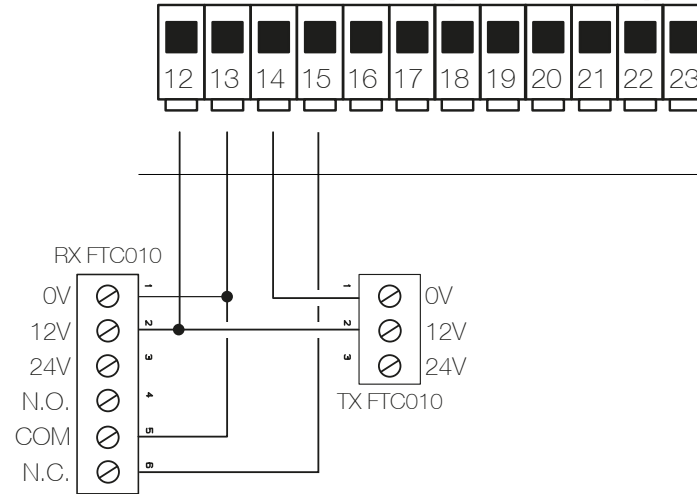


If no wired safety edge is used, connect a 8K2 resistor between terminals 16 and 17.

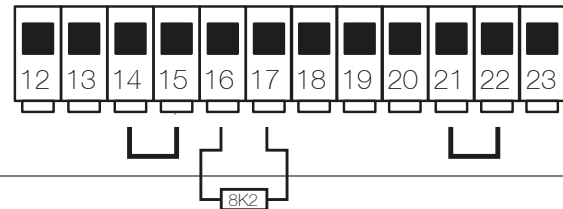
Reflex photocell



Pair of standard photocells (N.C.)



If no photocells are used, terminals 14 and 15 must be closed by a jumper.

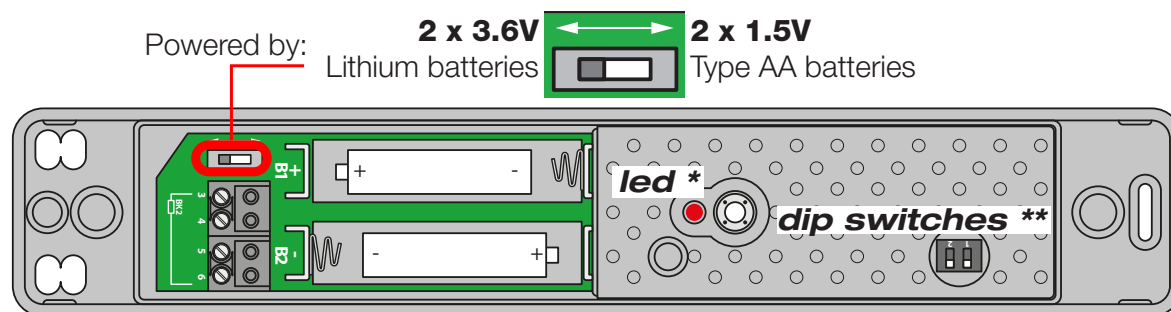


NO WIRED SAFETY DEVICE CONNECTED

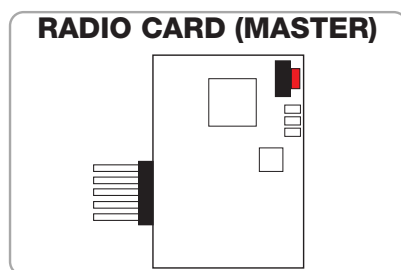
Connect a 8K2 resistor between terminals 16 and 17.
Terminals 14 and 15 must be closed by a jumper.
Terminals 21 and 22 must be closed by a jumper.



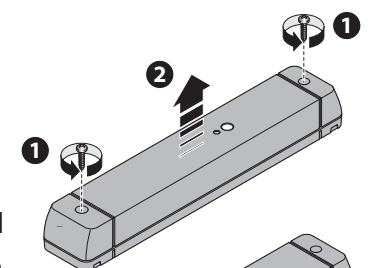
The system is composed by a radio card (MASTER), plugged in the control unit, and a wireless transmitter (SLAVE) mounted on the door, usually close to the bottom slat, connected to the safety device. The device has got infrared low-consumption barrier (both safety systems), or 8,2KOhm resistive barrier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



BOTTOM SLAT TRANSMITTER (SLAVE)

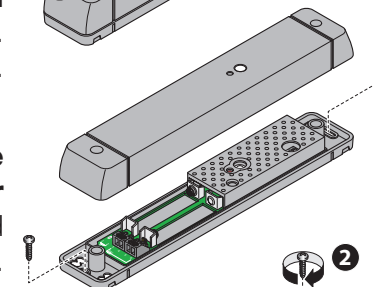


RADIO CARD (MASTER)



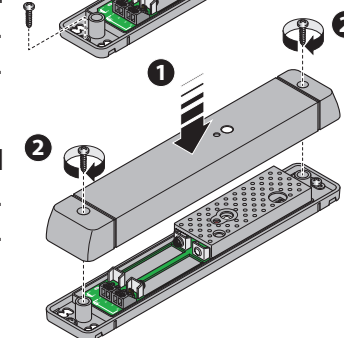
Opening the lid

1. Remove the screws.
2. Lift the lid up.



Fixing the transmitter

Use the screws and the holes in the picture. Insert batteries and check polarity.

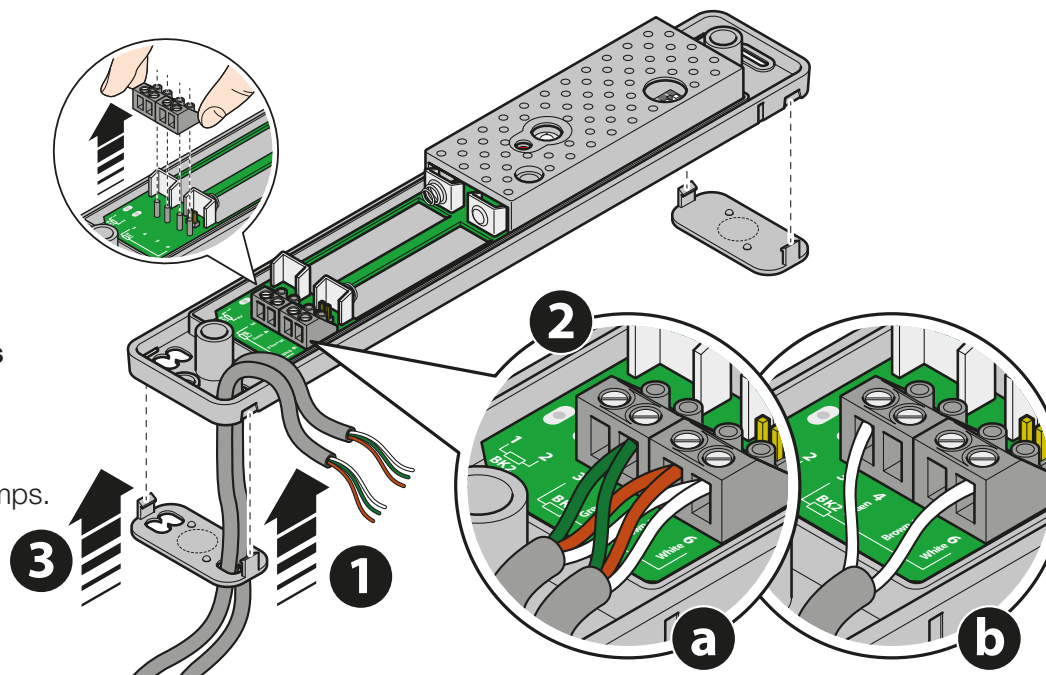


Closing the lid

1. Place the lid.
2. Tighten the screws.

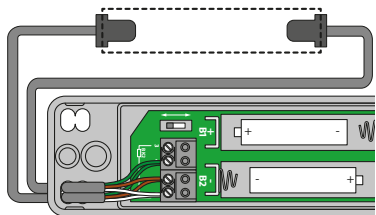
Installation&Connections

- 1 Insert the cables.
- 2 Connect the wires to the clamps.
- 3 Secure the cable ties



a INFRARED SAFETY EDGE

BST24 / BST25



DIP1=ON

ON 1 2

DIP2=ON

ON 1 2

Infrared test activated for 30 s. Any beam interruption turns the led ON .

BST25S

DIP1 = ON

ON 1 2

shock sensor disabled

DIP1 = OFF

ON 1 2

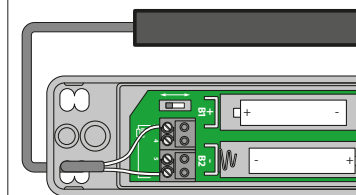
shock sensor enabled

DIP2 = ON

ON 1 2

Infrared test activated for 30 s. Any beam interruption turns the led ON .

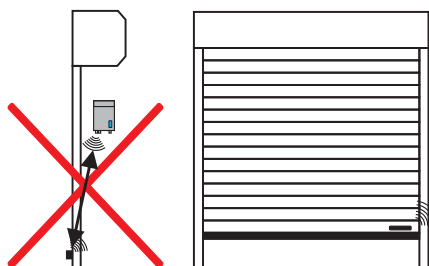
b RESISTIVE SAFETY EDGE



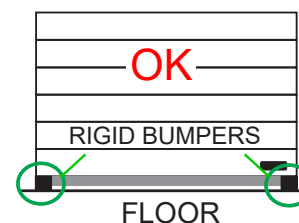
8K2

ON 1 2

DIP1 = OFF



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 no more than **10m**.



We recommend installing 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. Use the exclusion of the 5cm in case the floor is not flat (par. 3.4).



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. 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. In case of any problem, refer to the paragraph "Troubleshooting" (par. 8).








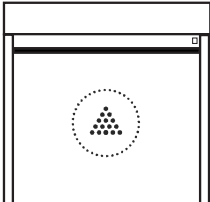



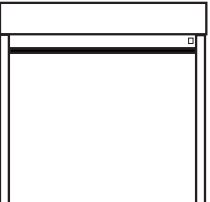


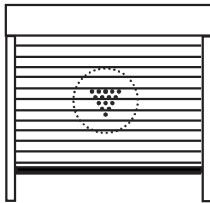



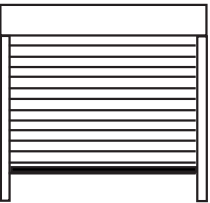





WARNING: the control unit executes an inversion of the movement until a complete opening if any error occurs. In case that the safety devices (except for TB input) are defective or they have been activated, it is possible to operate the door anyway, keeping pressed the command button for more than 5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

3.1 LIMIT SWITCHES CONFIGURATION AND DIRECTION CHECK

Factory setting
ACTIVATED



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

ACTIVATION						
X1	<div><div>P1P2</div><div></div><div><div>keep it pressed for 3s</div></div></div>			<div></div>		
	Press P1 and P2 1 time and keep it pressed for 3s			The buzzer emits 1 beep		
HOLD TO RUN L4 FLASH FAST	<div><div></div><div></div><div>hold-to-run</div></div>	<div><div></div></div>	<div><div></div></div>	<div></div>	Open the door (in hold-to-run mode) in order to set up the upper limit switch.	If the door is moving 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
	<div><div></div><div></div><div>hold-to-run</div></div>	<div><div></div></div>	<div><div></div></div>	<div></div>	Close the door (in hold-to-run mode) in order to set up the down limit switch.	
DEACTIVATION						
X1	<div><div>P1P2</div><div></div><div><div>keep it pressed for 3s</div></div></div>			<div></div>		
	Press P1 and P2 1 time and keep it pressed for 3s.			The buzzer emits 1 beep		

3.2

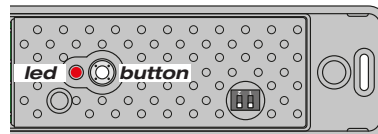
MATCHING OF THE WIRELESS SAFETY DEVICE SYSTEM & ACTIVATION/DEACTIVATION

- **Matching of the wireless safety device system:** check that the bottom slot 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. 2.5.

1- Push the button of the radio card (MASTER) for 2 seconds, L1 and L2 led will flash and the buzzer emits a sound.

2- Push the button of the bottom slot transmitter (SLAVE) for 2 seconds. Its led will flash and the buzzer emits a sound. In case of correct memorization **L1 will constantly flash** and **L2 led off**.

BOTTOM SLAT TRANSMITTER (SLAVE)

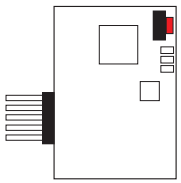


Check the system pressing the button of the bottom slot transmitter (SLAVE) and keeping it pressed:

- **Slave led solid ON = matching MASTER/SLAVE OK**

- **Slave led flashing = matching MASTER/SLAVE not performed**

- **Master L1 led must constantly flash**



button

L3 led
L2 led
L1 led


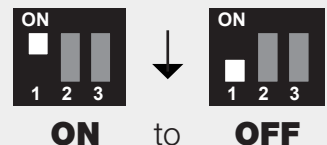


RADIO CARD (MASTER)

L1 led Flashing: normal functioning.
ON: transmission error or drained batteries.


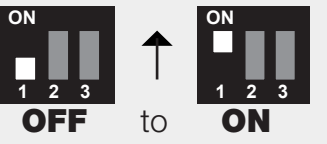


L2 led ON: activated safety alarm, transmission error or drained batteries.
OFF: normal functioning.

L3 led Not used.

DEACTIVATION




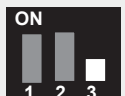
30 SECONDS TIMEOUT			
 ON	 ON to OFF	X1  (5 s) <i>keep it pressed for 5s</i>	
Switch the unit on	Move DIP1 from ON to OFF position By default DIP1 is ON (system activated)	Press P1 button 1 time and keep it pressed for 5s	The buzzer emits 6 beep

ACTIVATION

30 SECONDS TIMEOUT			
 ON	 OFF to ON	X1  (5 s) <i>keep it pressed for 5s</i>	
Switch the unit on	Move DIP1 from OFF to ON position	Press P1 button 1 time and keep it pressed for 5s	The buzzer emits 7 beep

3.3

FUNCTIONING MODE

	DIP2 ON: AUTOMATIC mode.		DIP2 OFF: SEMI-AUTOMATIC mode. Automatic opening and hold-to-run closing. The automatic closure function is deactivated.
	DIP2 + DIP3 ON: Automatic closure function activated (only if DIP2=ON). Default time is 30 sec. This function has effect only when the door is totally open		DIP3 OFF: Automatic closure function deactivated (default setting)

3.4




EXCLUSION OF SAFETY EDGE IN THE LAST 5 CM OF THE CLOSURE


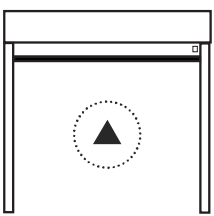

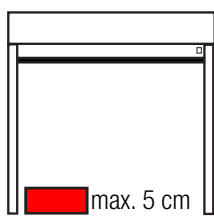

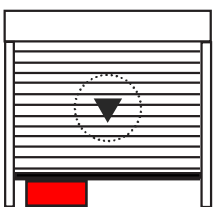

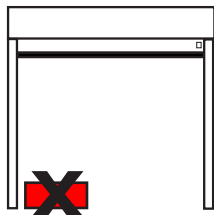





In case of uneven floors, it could be necessary deactivating the safety edge in the last part of the closure (not more than 5 cm to comply with the standards) in order to avoid any accidental activation of the safety edge.

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.

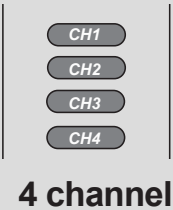
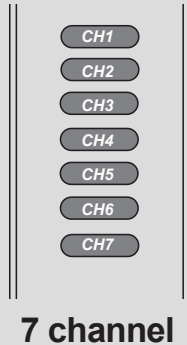
ACTIVATION		
30 SECONDS TIMEOUT		
 ON	X10  keep it pressed for 5s	
Within 30s from power ON	Press P1 button 10 times and keep it pressed for 5s	The buzzer emits 3 beep

1. 			2.  max. 5 cm	1. Open the door completely by means of a memorized transmitter. The buzzer emits a long beep when the upper limit switch is reached.
3.  hold-to-run			4. 	2. Put on the floor, exactly under the door, a sturdy object not more than 5 cm high. 3. 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. 4. Open the door completely and remove the object. Close the door to verify the correct application of the procedure.

DEACTIVATION		
30 SECONDS TIMEOUT		
 ON	X11  keep it pressed for 5s	
Within 30s from power ON	Press P1 button 11 times and keep it pressed for 5s	The buzzer emits 5 beep

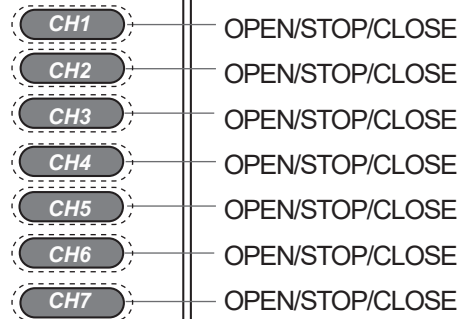


TRANSMITTERS

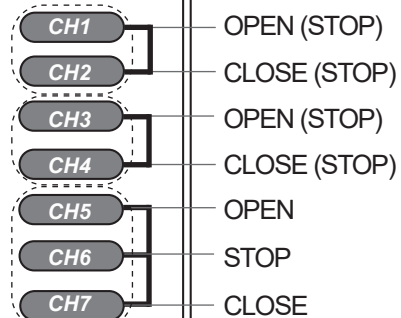


MEMORIZATION

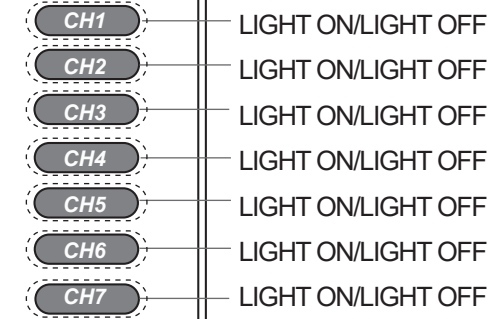
TYPE "A"
for MOTOR



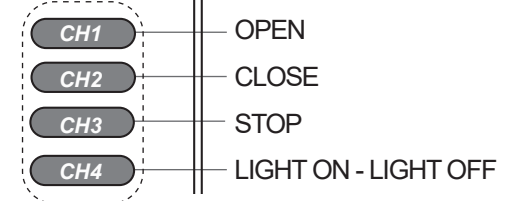
TYPE "B"
for MOTOR



TYPE "C"
for LIGHT
























TYPE "D"
for MOTOR/
LIGHT



Only for a 7-CH and 4-CH transmitter



TYPE OF MEMORIZATION		P1	  continuous sound keep it pressed	
A	Open-Stop-Close	* x1	 → 	Press the button of the transmitter relative to the code to memorize.   ...  <i>intermittent sound</i>
B	Open (Stop)/Close (Stop)	* x2	  → 	
C	Light On-Light Off	* x3	   → 	
D	Open/Close/Stop/ Light On-Off	* x6	      → 	

* The buzzer will make a beep each time the button is pressed. No more than a second should pass between one press to another one.

4.2 SINGLE CHANNEL: DOOR STATUS REQUEST (ASK)

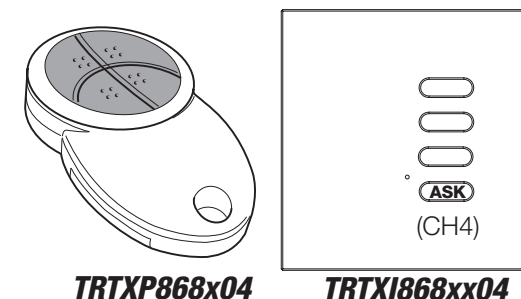







In case of using **bidirectional transmitters** it's possible to receive a feedback about the door status, shown by means of the transmitter's LED:

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

Warning: the remaining free buttons of the transmitter should be memorized using the procedure **4.1**.

DOOR STATUS REQUEST ("ASK")



TYPE OF MEMORIZATION	P1			
			 <i>continuous sound</i>	
ASK function	* x7			Press any button of TRTXP or CH4 of TRTXI transmitter to memorize.  <i>intermittent sound</i>

4.3 ALARM FUNCTION: SHOCK SENSOR MEMORIZATION



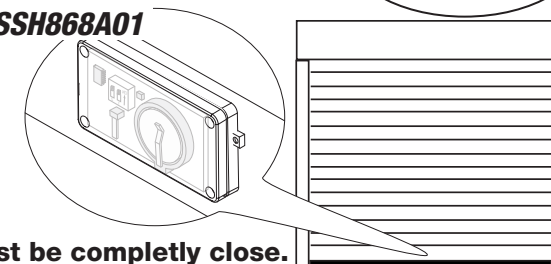
Only for TVSSH868A01 NOTE: It is not necessary if you use BST25S (with its DIP1=OFF)

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. L6 flashes. 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.






Warning: optional speaker must be connected!

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

TVSSH868A01



The garage door must be completely close.

TYPE OF MEMORIZATION	P1			
			 <i>continuous sound</i>	
Shock sensor	* x8		 ACTIVATE THE SHOCK SENSOR	Activate the shock sensor to memorize.  <i>intermittent sound</i>


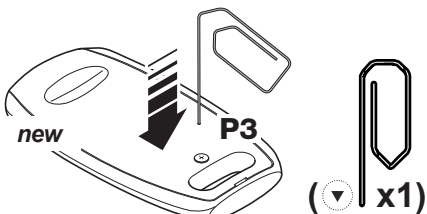



4.4

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 (TYPE B).

30 SECONDS TIMEOUT		5 SECONDS TIMEOUT		
 ON				
	Press 1 time P3 button for 2s	The buzzer emits a continuous sound.	Press any button of the pair to memorize	The buzzer emits a fast intermittent sound

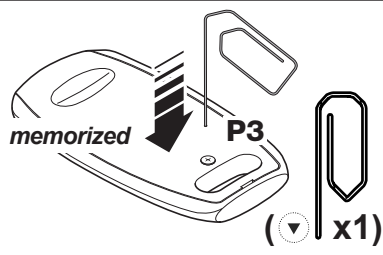






4.5

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.

5 SECONDS TIMEOUT				5 SECONDS TIMEOUT		
			 1 s			
Press 1 time 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 1s	The buzzer emits a continuous sound.	Press the button of a new transmitter to memorize with the same functions.	The buzzer emits a fast intermittent sound








* P3 button is located inside the transmitter. Every time P3 is pressed the lights switch ON.



Press **P2 4 times** and hold it. 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.

TYPE OF DELETION	P2			
		 <i>keep it pressed</i>	  ... <i>intermittent sound</i>	
SINGLE RADIO CODE	* x4		 → 	Press the button of the transmitter relative to the code to memorize.  <i>continuous sound</i>

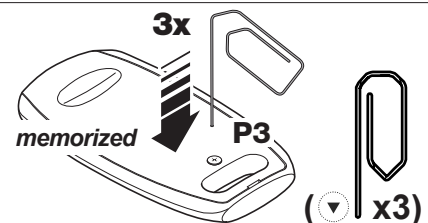




Press **P2 five times** and keep it pressed for at least **10 seconds**. The buzzer emits an intermittent sound. Release the button once the sound becomes continuous.

ALL THE RADIO CODES	* x5		  (10 s)    ... <i>intermittent sound</i>	 <i>continuous sound</i>
---------------------	---------	--	--	---

5.1

REMOTE DELETION OF A TRANSMITTER




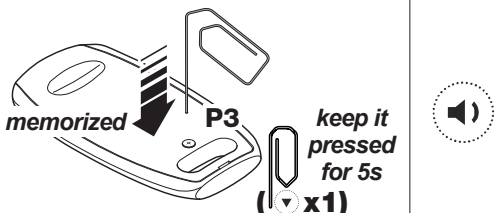
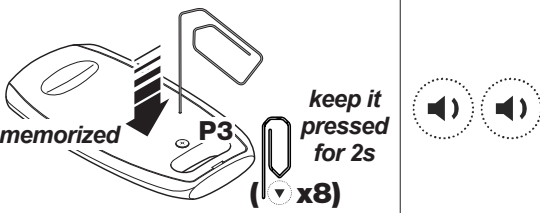
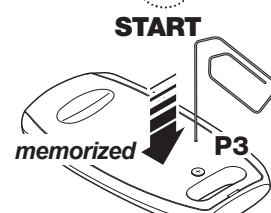
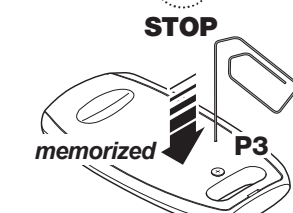
	5 SECONDS TIMEOUT		
	  ...	<i>to delete</i> 	
Press 3 time P3 button of a memorized transmitter and hold it for 2s	The buzzer emits an intermittent sound	Press the button of the transmitter to delete within 5 sec.	The buzzer emits a continuous sound

* P3 button is located inside the transmitter. Every time P3 is pressed the lights switch ON.

6.1 AUTO - CLOSE TIME SETTING




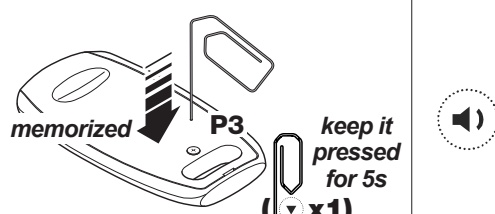
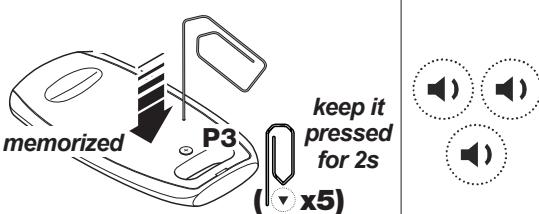
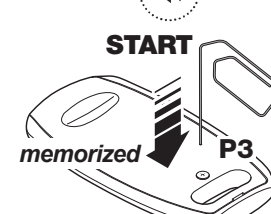
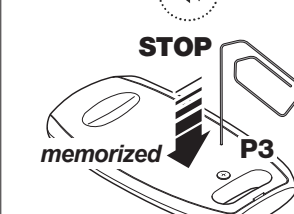
This procedure configures the time lapse between complete opening and the automatic closure (if enabled). The default time is **30 seconds**. It is possible to set the time from 5 seconds to 180 seconds.

30 seconds timeout		5 seconds timeout					
							
Press P3 button of a memorized transmitter and hold it for 5s, the buzzer sounds 1 beep		Release and press it again 8 times within 5 seconds and hold it for 2s, the buzzer sounds 2 beeps		Press once P3 to start the counting of time. The buzzer sounds 1 beep.		Press again P3 to stop the counting after the desired lapse. The value will be memorized by the control unit	
In case of time-out, the control unit will sound four beeps and exit the procedure automatically.							

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.


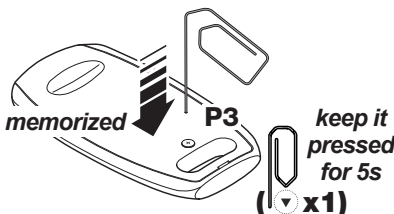

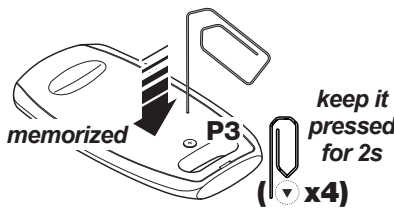


30 seconds timeout		5 seconds timeout						
								
Press P3 button of a memorized transmitter and hold it for 5 s. The buzzer sounds 1 beep.		Release and press it again 5 times within 5 seconds and hold it for 2s. The buzzer sounds 3 beeps		Press once P3 to start the counting of time. The buzzer sounds 1 beep		Press again P3 to stop the counting after the desired lapse. The value will be memorized by the control unit		
In case of time-out, the control unit will sound four beeps and exit the procedure automatically.								

* P3 button is located inside the transmitter. Every time P3 is pressed the lights switch ON.

7.1 MOTOR TORQUE CONTROL



The 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.

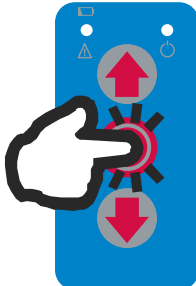
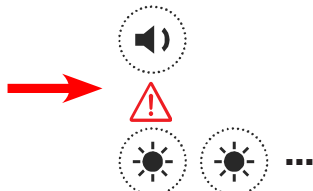
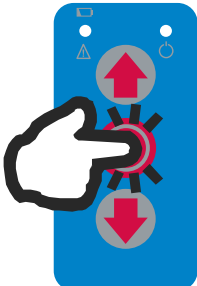
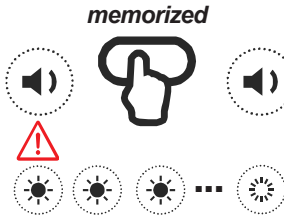
30 seconds timeout				
 ON				 DEACTIVATED
			5 seconds timeout	 ACTIVATED
			Press P3 button of a memorized transmitter and hold it for 5 s. The buzzer sounds 1 beep.	
Release and press it again 4 times within 5 seconds and hold it for 2s.		The buzzer will sounds 1 beep if the function is not active or 2 beeps if it is activated.		

* P3 button is located inside the transmitter. Every time P3 is pressed the lights switch ON.


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		DEACTIVATION	
 10 s		 5 s	 10 seconds timeout
Press the STOP button in the front cover and keep it pressed for 10 seconds. The buzzer makes one beep		Press STOP button in the front cover and keep it pressed for 5 seconds. In case of any transmitters have been not memorized the deactivation is automatic. In case of at least one transmitter has been memorized 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.	

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"> - Set the limit switches - The thermal protection could be activated. Wait while the motor cools down. - Check the motor connection - Test the motor separately by means of a proper tool
3 beeps at startup	Radio receiver is empty	Memorize at least one transmitter
3 beeps (L1 = ON)	Safety test failure: photocells (FTC input)	Check photocells alignment and the connections
4 beeps	Radio receiver is full	Max. number of transmitter exceeded
5 beeps (L2 = ON)	Safety test failure: wired safety edge	<ul style="list-style-type: none"> - Check the rubber profile general condition - Check photocells alignment and the connections
5 beeps (see also  led on the front cover)	Safety test failure: wireless safety edge system	<p>Control unit checks</p> <ul style="list-style-type: none"> - The radio card (master) must be correctly inserted in the plug: check all the pins - The radio card (master) must be paired with the bottom slot transmitter (slave) <p>Bottom slot transmitter checks</p> <ul style="list-style-type: none"> - Check type, polarity and charge level of the batteries - Check functionality by pressing the button - Check the DIP1 position (at par. 2.5) - Check wiring between bottom slot transmitter and sensitive edge (terminals and wire colour) <p>Sensitive edge checks</p> <ul style="list-style-type: none"> - Check the rubber profile general condition - Check the functionality by means of the testing procedure with DIP2 (at par. 2.5)
5 quick beeps every 5 seconds	Low batteries in the bottom slot 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 par 2.2)	Replace the control unit

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	<ul style="list-style-type: none"> - The bottom limit could be too low, adjust it upwards - In case of uneven floor use the procedure 3.4 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	<ul style="list-style-type: none"> - Check if the connection flat cable is correctly inserted in the board plug - If the  led flashes, the "holiday mode" is activated
The fuse blows while operating the door	Check again the wirings

TECHNICAL SPECIFICATIONS

Power supply	240Vac ÷ 50Hz
Operating temperature range	-20°C ÷ +50°C
IP rating	IP20
Reception frequency	868.3MHz
Radio memory capability (transmitters)	32
Maximum output power for light output	300W - resistive load (240Vac)
Motor characteristics:	
Voltage	240Vac
Maximum power	450W
Wireless safety system:	
Functioning range	10m
Answering time in manoeuvre	< 100ms
Carrier frequency	2.4GHz
Power supply	2 x 3.6V lithium batteries
Consumption when transmitting	13mA



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 240Vac. 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 240Vac 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.

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.

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



The connection between the control unit and the auxiliary device must be done using double insulated cables. The auxiliary device connected must be a Class II device. In case of an external aerial is connected the connections must be done using double insulated cables.

TELECO AUTOMATION S.R.L.

ITALY

Tel. +39.0438.388511
info@telecoautomation.com

TELECO AUTOMATION FRANCE

FRANCE

Tel. +33.(0)472.145080
info@telecofrance.com

TELECO AUTOMATION GMBH

GERMANY

Tel. +49.(0)8122.9563024
info.de@telecoautomation.com

TELECO AUTOMATION BENELUX SPRL

BELGIUM

Tel. +32.67561967
info@telecoautomation.be

TELECO AUTOMATION OCEANIA PTY LTD

AUSTRALIA

Tel. +61.(07)5502.7801
info@telecoautomation.com.au

TELECO AUTOMATION IBÉRICA S.L.

SPAIN

Tel. +34.966.16.82.24
jv.lopez@telecoautomation.com