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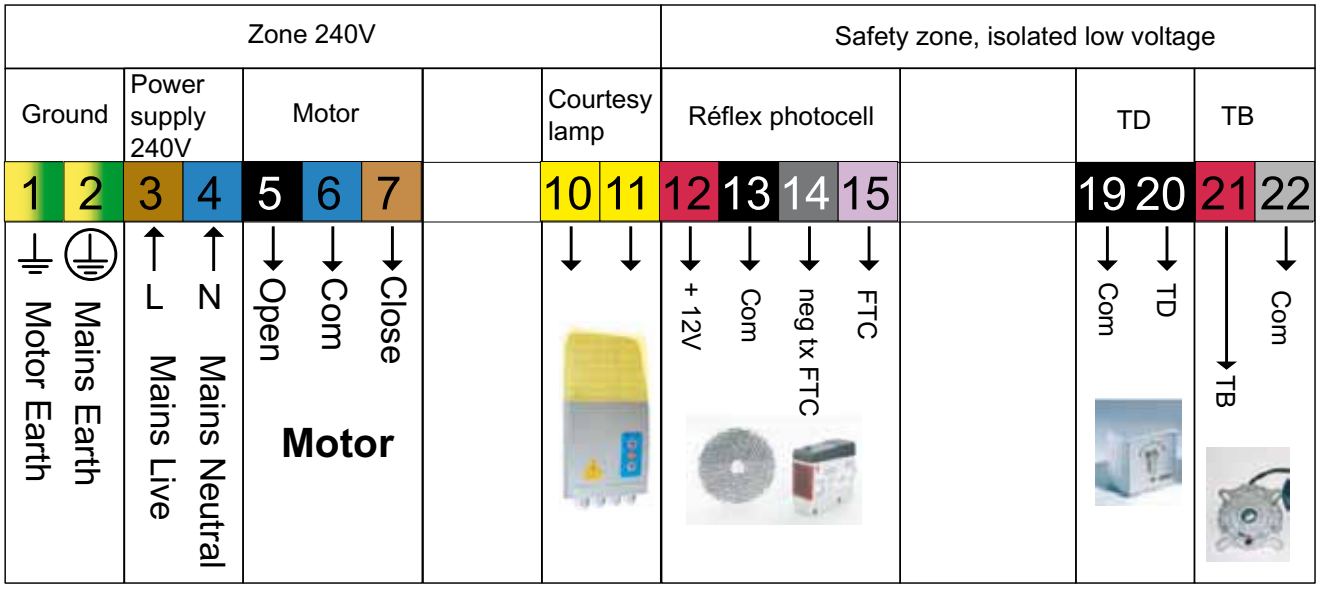
1- GENERAL DESCRIPTION

Electronic for the remote control of tubular motors for roller blinds, rolling shutters, doors with limit switch inside or outside the motor, radio receiver section with transmitter channel memorization by means of internal push button or via radio.
Possibility to connect wired with auto-test control before every closing movement.
Possibility to connect a 240 V~ courtesy lamp with variable time from 1 min. to 12 hours (default 1min.)
Plastic housing for external use equipped with clamps.
Possibility of centralized controls for simultaneous control of several appliances.
Possibility to connect external mechanical controls with dynamic push button function and blockage push button.

2- CONNECTIONS



Description of the connections:

1 Input ground general power supply
2 Input ground motor
3 Input general power supply 240 V~ phase
4 Input general power supply 240 V~ neutral
5 Opening output relay motor contact
6 Output 240 V~ neutral by means of fuse (common motor)
7 Closing output relay motor contact

10-11 Output LC 240 V~ 300 W max. for courtesy lamp (only for the version with courtesy light)
12 Positive output 12/15Vdc 80mA for photocells
13 Safety common contact
14 Negative output for photocells (autotest)
15 FTC input (NC normally closed)

19 Push buttons common for TD
20 Dynamic push-button input (NO normally open)

21 Stop push-button TB (NC normally closed)
22 Push buttons common for TB

24 Antenna ground
25 Antenna pole (wire 8.5cm)

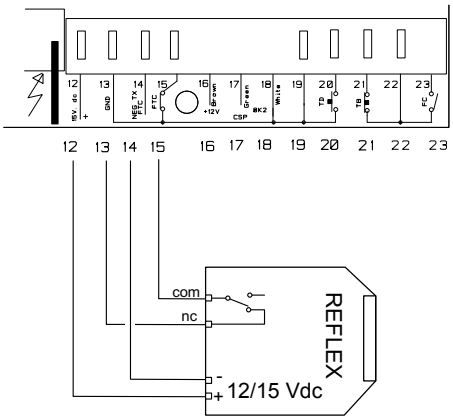
Code Number:	Series	Model number	Draft	Date
	TVLink RS868	TVPRP868F08E	T574.01	25/11/13

Warning: The installed safety device must ensure the safety of the door according to EN13241-1 (EN12453, EN12445)

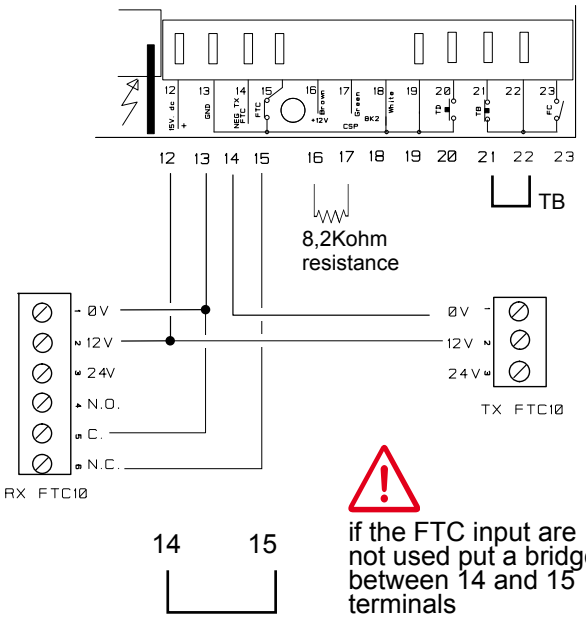
If TB stop NC contact is not used it must be jumpered.

If the FTC input NC is not used it must be jumpered to 14 terminal

Connections with reflex



Connections with photocells



3- Technical specifications

Reception frequency	868.3 MHz
Sensibility (finely tuned signal)	1 uV
Power supply	240 V~
Operating temperature range	-20° – +50°C
Maximum power at the motor:	
Voltage	250 V ~
Maximum power	400 W
Maximum commutable power at output courtesy lamp	240 V~ 300 W

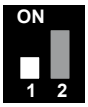
Antenna

The correct installation and connection of the antenna is fundamental in order to obtain a good action ray for the installation.
Connect the provided 8.5 cm piece of wire to the antenna pole connection on the device.
As an alternative (and for better results) use a tuned antenna connected to the receiver via coaxial cable RG58 (impedance 50ohm) with a maximum length of 15 metres (mod. ANT868)

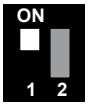
After the reset, the control unit carries out only opening commands until the door is fully opened.
After the complete opening, the functioning of the commands is standard.

4- Dip-switch function

Dip1:

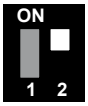


OFF The closing movement is in dead man mode, during the opening it is automatic (even if the automatic reclosing is excluded)

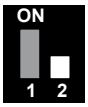


ON The opening and closing movement is automatic.

Dip2:



ON Activation of automatic reclosing **



OFF Deactivation of automatic reclosing

**The automatic reclosing is activated only if the door is fully open to the limit switch.
After passing the photocell the door closes (after 3 sec.).

5.0- To memorize the transmitters from the receiver

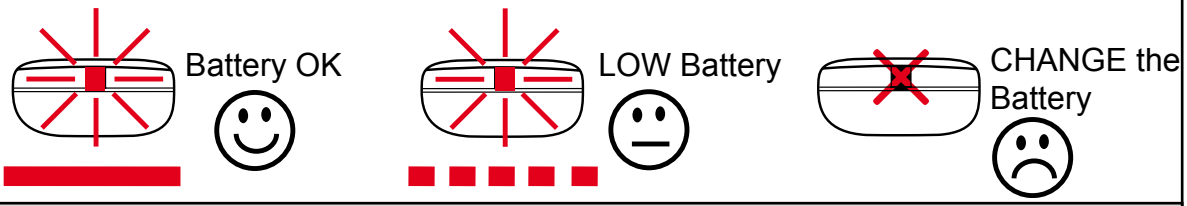
Transmitters

The transmitters are encoded in the factory and each transmitter has its own unique code.
Caution! If you keep a channel button pressed down for more than 30 seconds the transmitter will automatically turn off.
The receiver is compatible with all transmitters of the TVLink range: TVTXV, TVTXP, TVTXE, TVTXC, TVTXI, TVTXK, TVTXQ, TVTXL, TVTXS.
The transmitter code can be inserted (memorized) or deleted directly in the receiver or via radio from the transmitter. This last possibility allows to insert new transmitters into an existing installation, without acting directly on the receiver. This may be carried out easily by the end user without the help of the installer, and guaranteeing the total secrecy of the code.
- The codes transmission type is “Rolling- code”. The code is changed for every transmission through the use of an algorithm that only the receiver is able to recognize and therefore to decide if the transmitted code corresponds to the original code.
- In the receiver the user code is memorized under Eeprom, which maintains the code information even when faced with blackouts (max. 42 code-memorizations).
It is adjustable to delete the whole memory before each installation.

Errors during the memorizing

If the code is not memorized it could be due to the following conditions:
-The code already exists in memory
-The memory is full (max. 42 codes). In this case the Buzzer will make 3 beeps both during the memorization phase both after the reset of the receiver.

Transmitter le behaviour according to battery status:

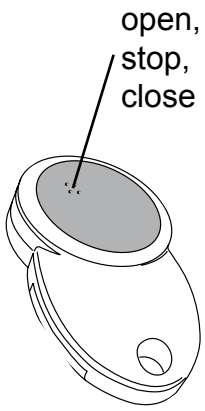


5.1- Possibility to memorize the transmitter in three ways:

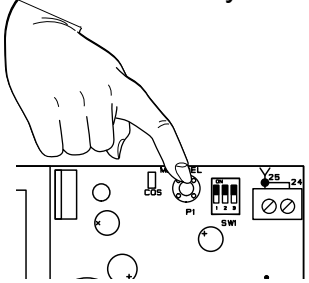
1 - **Mode 1**: Single channels with dynamic function, open, stop, close
2 - **Mode 2**: Control from two channels ch1 with ch2, ch3 with ch4 and ch5 with ch6 and ch7.
Ch1, ch3, ch5 for opening controls, ch2, ch4 and ch7 for closing controls, ch6 stop.
3- **Mode 3**: the memorised channel operates on the courtesy light in on/off mode.

5.1.1- Mode 1: single push-button

The memorization of the channels is carried out in single mode for each channel;
the memorised channel will activate the controls in dynamic mode open, stop, close.

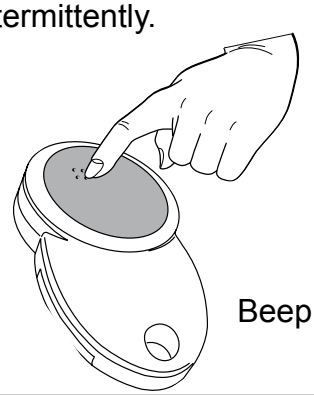


Press and hold the push button P1, the buzzer B1 will make 1 beep and sound continuously.



Beep ... Beeeeeep

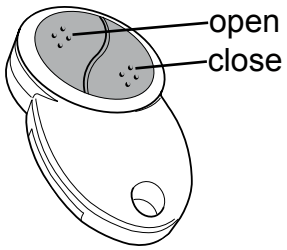
Transmit the channel which is to be memorized, the buzzer B1 will sound intermittently.



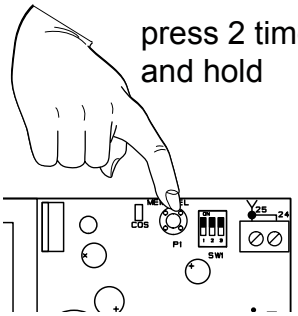
Beep Beep Beep Beep

5.1.2- Mode 2:

The memorization of the channels is done in pairs:
channel 1 with channel 2 (or vice versa) and
channel 3 with channel 4 (and vice versa) and channels 5-6-7.

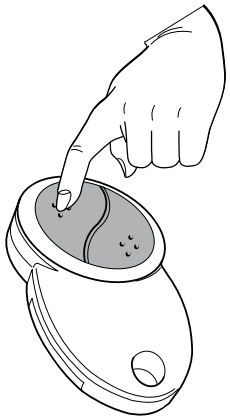


Press **twice and hold** the push button P1 down, the buzzer B1 will make two beeps and sound continuously.



Beep Beep ... Beeeeeep

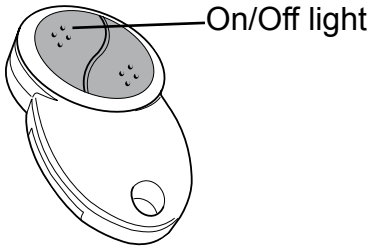
Transmit one of the channel which is to be memorized, the buzzer B1 will sound intermittently.



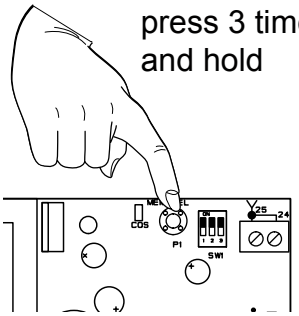
Beep Beep Beep Beep

5.1.3- Mode 3

The memorization of the channels is carried out in single mode for each channel; the memorised channel will turn on and turn off the courtesy light in dynamic mode.

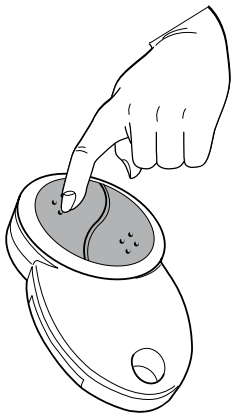


Press **three times and hold** the push button P1 down, the buzzer B1 will make three beeps and sound continuously.



Beep Beep Beep ... Beeeeeep

Transmit the channel which is to be memorized, the buzzer B1 will sound intermittently.

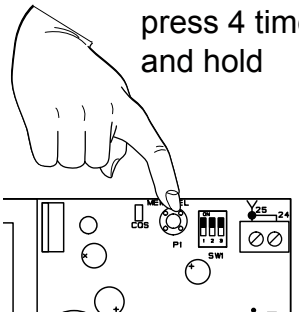


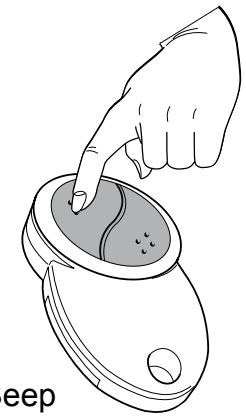
Beep Beep Beep Beep

5.2.1- To cancel a code from the receiver: the deletion in single mode or in pairs is done as in the memorization mode 1, 2 and 3:

Press **4 times and hold** the push-button P1 down, the buzzer B1 will emit an intermittent slowly sound.

Transmit the code which is to be cancelled, once the channel is cancelled the buzzer B1 will sound continuously.

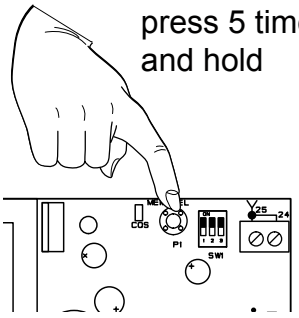




Beep Beep Beep Beep ... .Beep... . ...Beep... . ...Beep Beeeeeep

5.2.2- To cancel all memorized codes:

Press **5 times and hold** the push-button P1 down for **at least 10 s** (during this period the buzzer B1 will sound intermittently and quickly) until the buzzer B1 will sound continuously. At the end release the push-button.



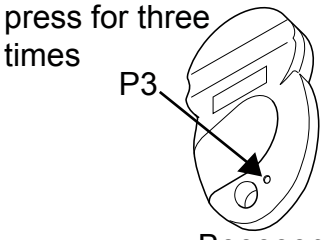
10 sec.

Beep Beep Beep Beep Beep ... Beep...Beep...Beep ... ... Beeeeeep

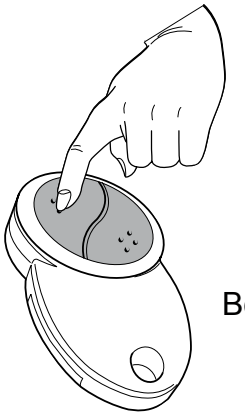
5.2.3- To cancel via radio a code by means of a transmitter already set in the memory:

Press the internal push button P3 at regular intervals for **three times** within 5 s, the buzzer B1 will emit an intermittent slowly sound.

Transmit the code which is to be cancelled within 5 s. Once the channel has been cancelled the buzzer will stop sounding.



Beeeeep ... Beep... . ...Beep... . ...Beep



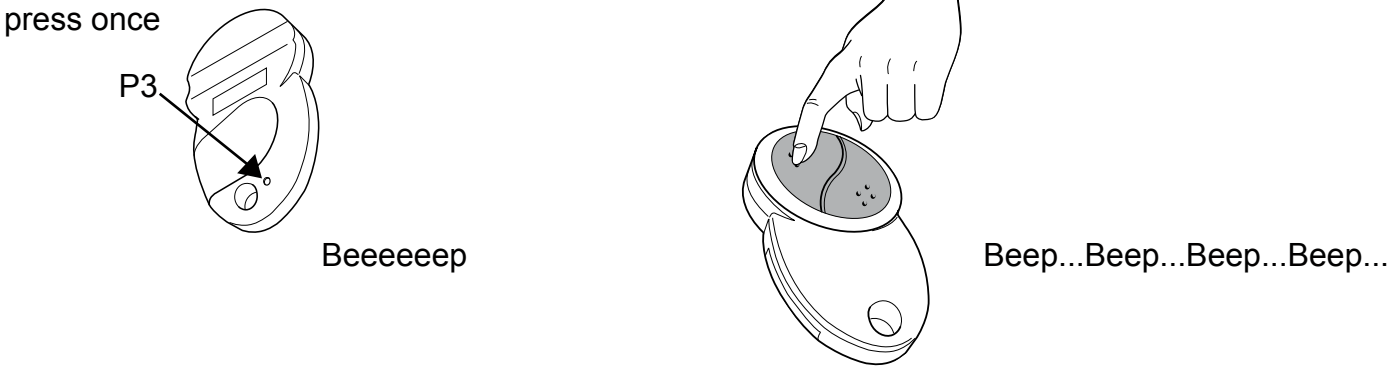
Beeeeeep

5.3- How to insert a transmitter via radio without accessing the receiver when the memory is empty (first installation), in this mode the channels function of the transmitter will be in mode 2.

The transmitter to be inserted will become the master transmitter for inserting other transmitters.

Press the internal push-button P3 of the transmitter, the receiver will be activated for the memorization and the buzzer will sound continuously for 5 s.

Transmit the channel which is to be memorized within 5 s. Once the channel is memorized the buzzer will sound intermittently.



Warning: when the memory is empty do not give power to more than one receiver at the same time, because the above mentioned procedure activates all receivers.

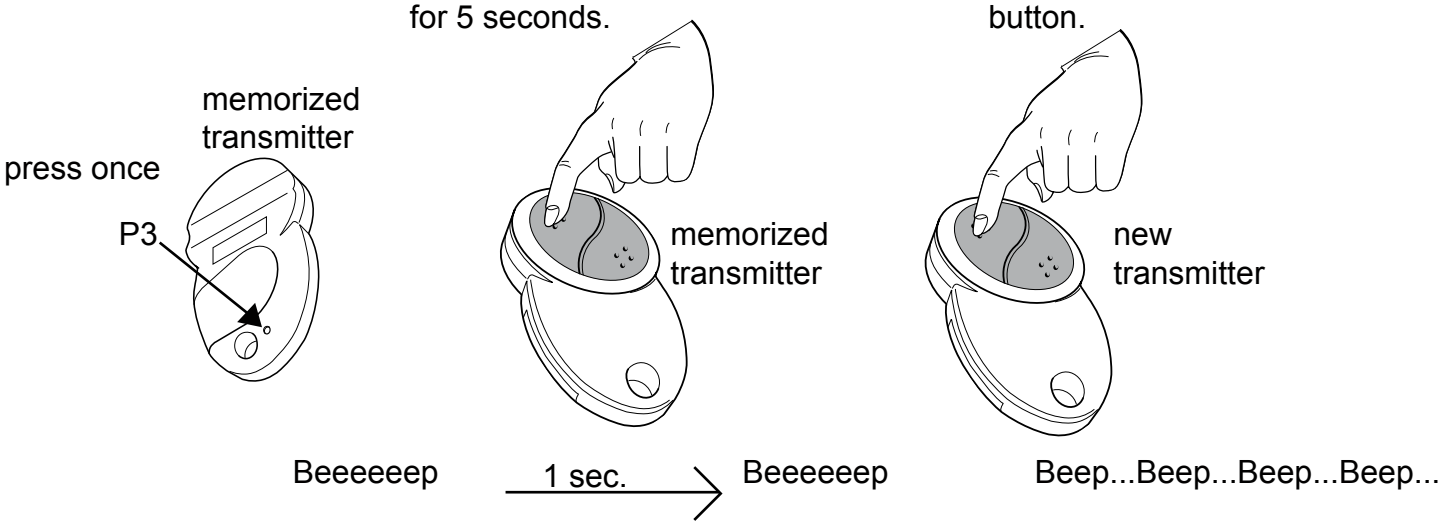
5.4- Memorization of channels from the transmitter (additional transmitters)

The type of memorization of the channels (single or in pairs) depends on how the channel, which is used in point 2, has been memorized.

1- Press the button P3 of the transmitter, the buzzer will sound continuously.

2- Press within 5 seconds a channel which is already present in the memory of the receiver, the buzzer will interrupt the sound for 1 sec, and then carry on for 5 seconds.

3- Transmit the channel to be memorized. Once memorized the buzzer will sound intermittently, release the push button.



6.0- Time settings

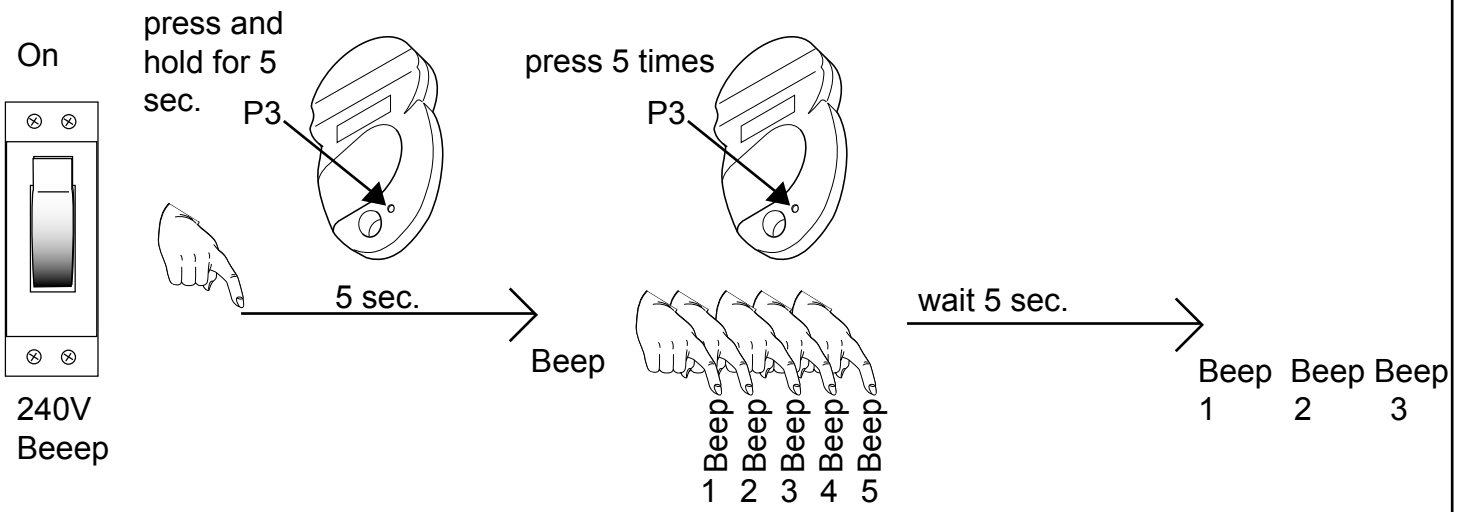
6.1- Procedure for the courtesy light time setting (from 1min max 12h)

This procedure can be done within 30 seconds after the reset.
Sum 1min to the set time.

1- Press for 5 sec. the push button P3 of the transmitter; the buzzer will sound 1 beep,

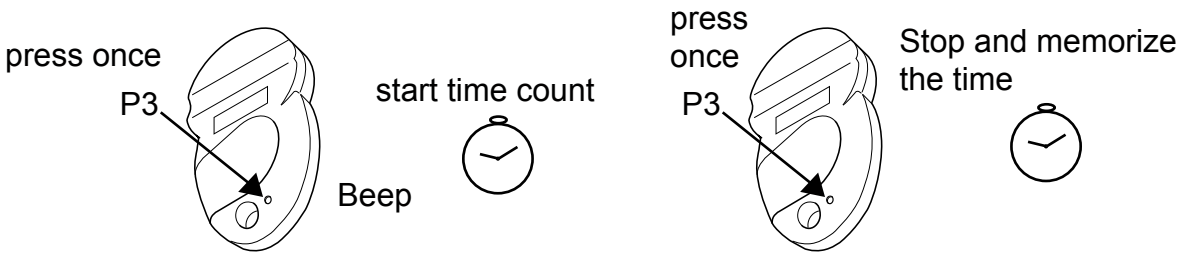
release and re-press within 5 sec. the push button P3 of the transmitter 5 times, the buzzer will sound 1 beep at each pressure and at the end it will sound 3 beeps

(if after 5 sec. the push button P3 will not be pressed the buzzer will sound 4 beeps and exit from the procedure).



2- Press the push button P3 of the transmitter, the buzzer will sound one beep and the courtesy light turns on, the time to be memorised starts.

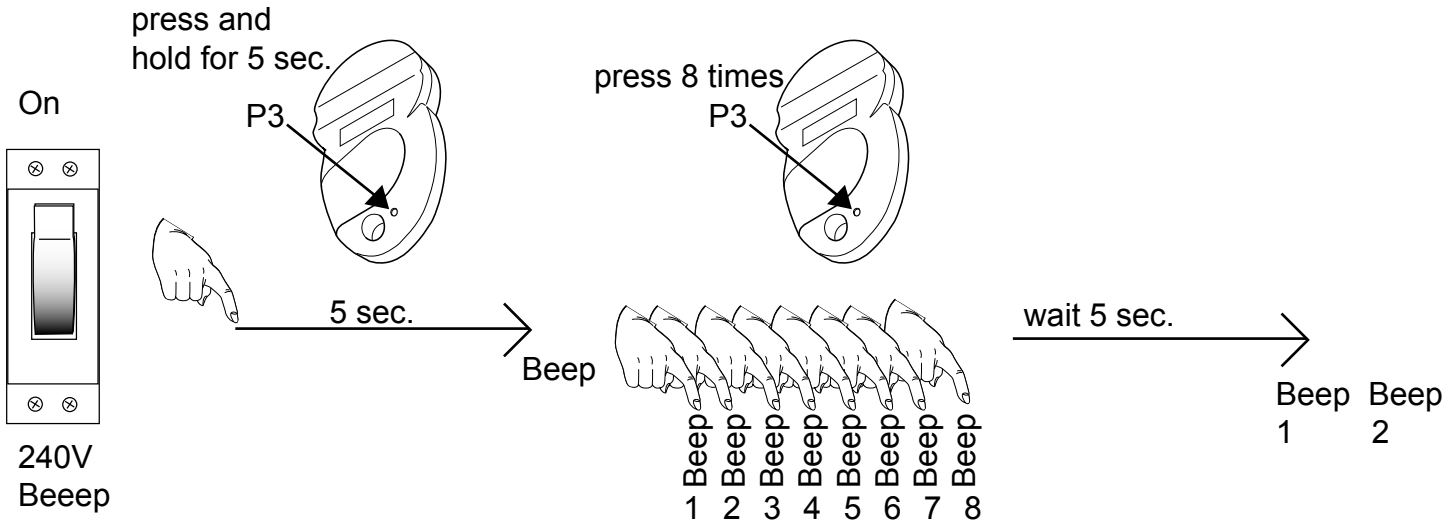
3- After the desired time press again the push button P3 of the transmitter in order to exit and memorise the courtesy light time, the light turns off.



6.2- Procedure for the automatic re-closing time setting (from 5s max 90s) (default 5sec.)

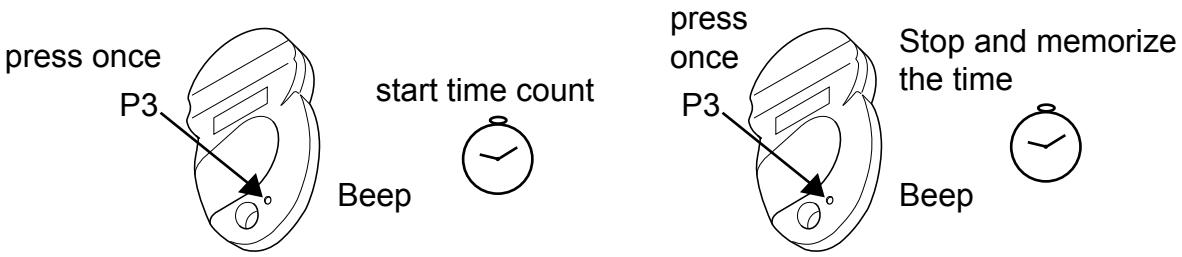
This procedure can be done within 30 seconds after the reset.
Sum 5s to the set time.

1- Press for 5 sec. the push button P3 of the transmitter; the buzzer will sound 1 beep, release and re-press within 5 sec. the push button P3 of the transmitter 8 times, the buzzer will sound 1 beep at each pressure and at the end it will sound 2 beeps (if after 5 sec. the push button P3 will not be pressed the buzzer will sound 4 beeps and exit from the procedure).



2- Press the push button P3 of the transmitter, the buzzer will sound one beep, the time to be memorised starts.

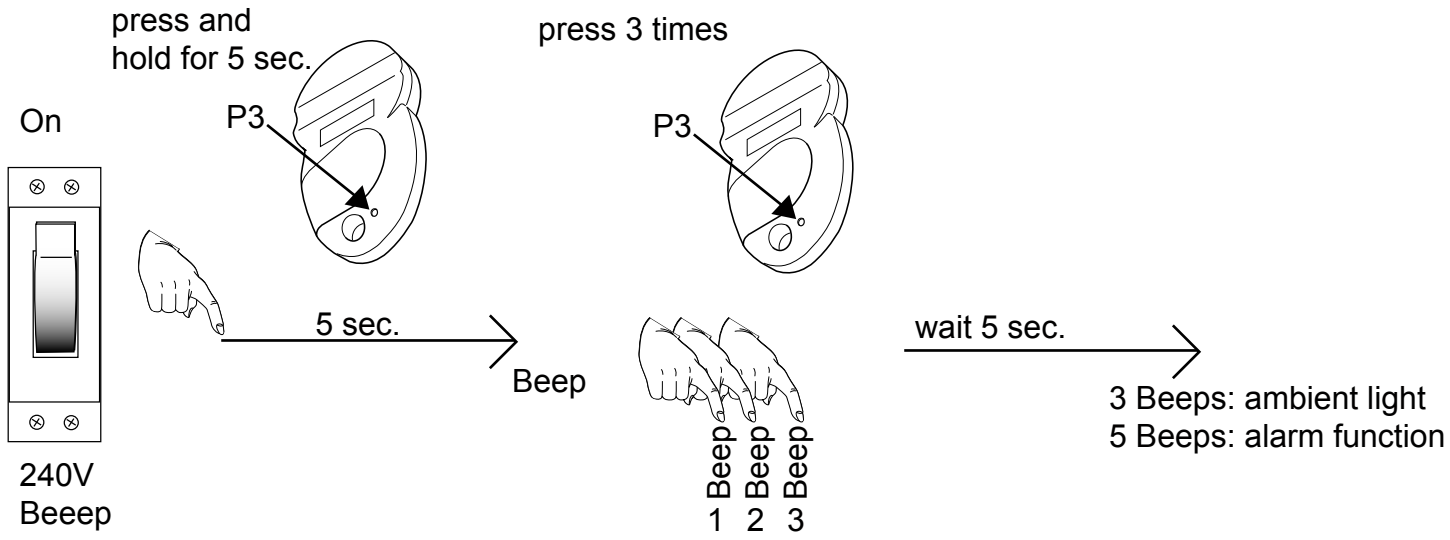
3- After the desired time press again the push button P3 of the transmitter in order to exit and memorise the re-closing time.
The buzzer will sound one beep.



7.0- Courtesy light operation mode as the ambient light or alarm

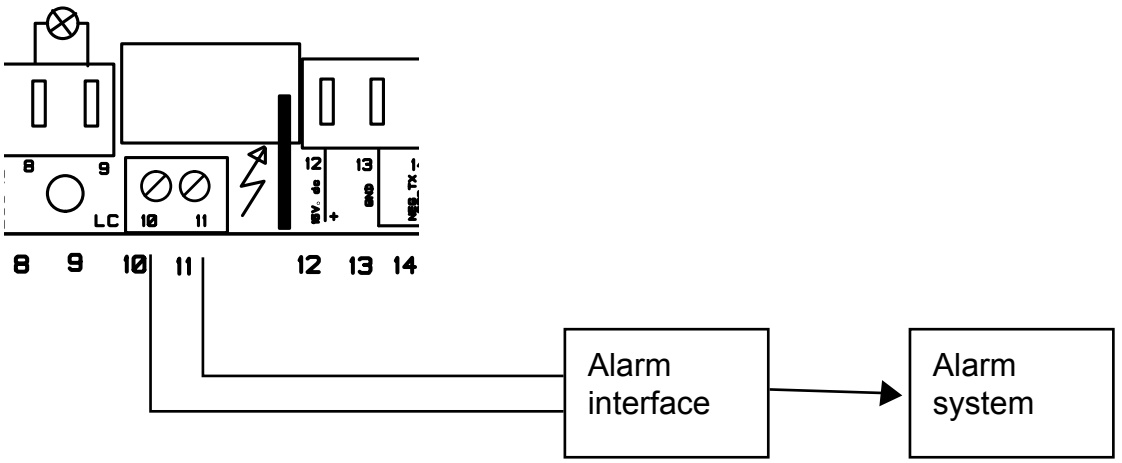
This procedure can be done within 30 seconds after the reset.

1- Press for 5 sec. the push button P3 of the transmitter; the buzzer will sound 1 beep, release and re-press within 5 sec. the push button P3 of the transmitter 3 times, the buzzer will sound 1 beep at each pressure and at the end it will sound:
3 beeps to indicate ambient light mode and
5 beeps to indicate alarm function.

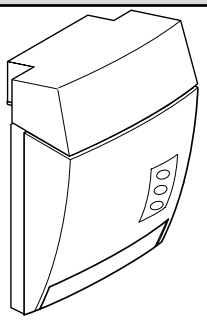


7.1- Courtesy light function as alarm

It is possible to use the output of the courtesy light, to interface the control unit to an alarm system, memorizing a radio alarm transmitter (code: TVSSH or TVTCTM) with mode 3 memorization and activating the “courtesy light as alarm” function (see 7.1).
If the control unit receives an alarm signal from the radio alarm transmitter, the courtesy light output is activated for 1 minute.
Warning: the courtesy light output provides 240Vac. The interface of the alarm system must be arranged according to the specifications of the installed alarm system.



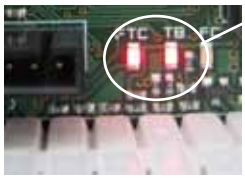
8.0- Acoustic signals emitted by the control unit



Beep ...

1 beep: reset
2 beeps: motor is not connected
3 beeps: error on FTC input (FTC is activated)
5 beeps: error on safeties test (safeties test failed)
8 beeps: Limit switch error

It is possible to close the door also with a not working CSP or with a negative safety test (forced closing), by pressing and holding down the closing push button; after 5 s the control unit closes in dead man mode.



TB Led and FTC Led:

ON: TB and FTC input alarm not activated, OK
the inputs work normally.

OFF: input alarm activated, security alarmed

The LED switches off every time that the autotest is done.

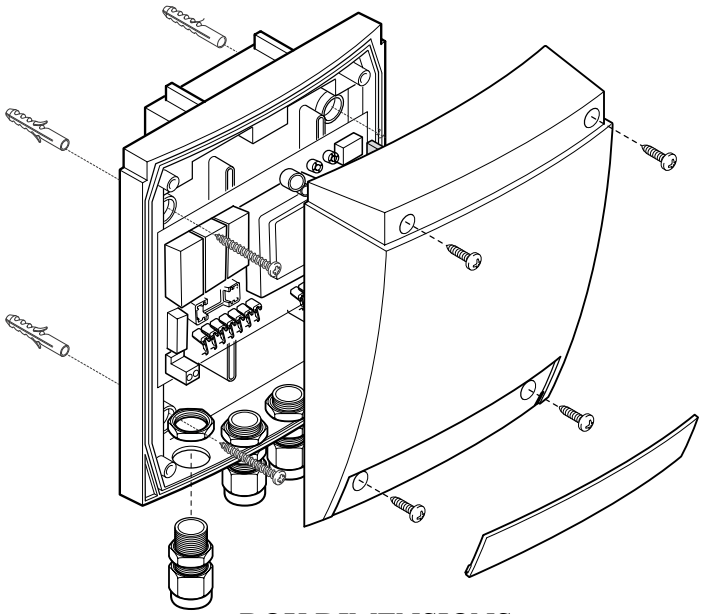
9.0- Safety inputs function

-TB: Normally closed input, stop-push-button stops the movement in each condition. (It is not possible the forced closing)
- Traditional photocell input (inputs 12-13-14-15); if not used jumper the inputs 14-15 (it only works in closure).
WARNING: all the devices invert the movement for 2 sec.
If the safety is broken it is possible to close the door with a maintained closing command; press the command for >5sec.; after this time the movement is in dead man mode.

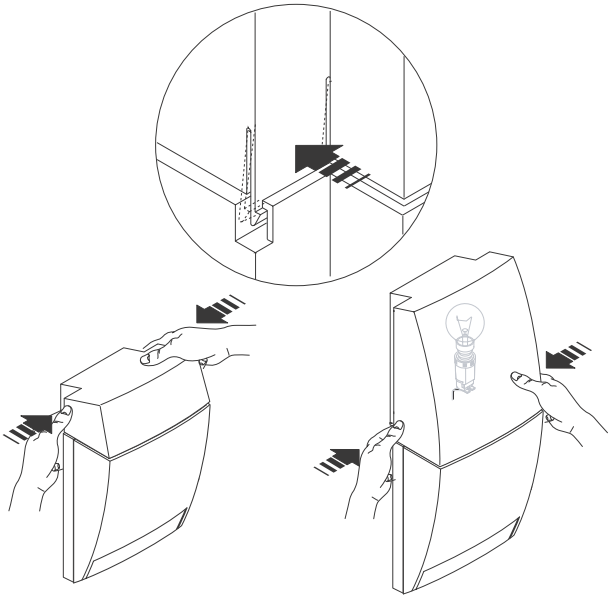
WARNING

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 3,5mm. Only suitable materials for the connections must be used to guarantee insulation that complies with current standards on the subject of electrical safety. The programmer carries out movement controls; 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 working of the product must be checked once a year.
Keep the 240V wires from the low voltage safety wires separately. The earth-wires must be fixed by means of an additional fastening nearby 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 clamps downwards.
The programmer 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.

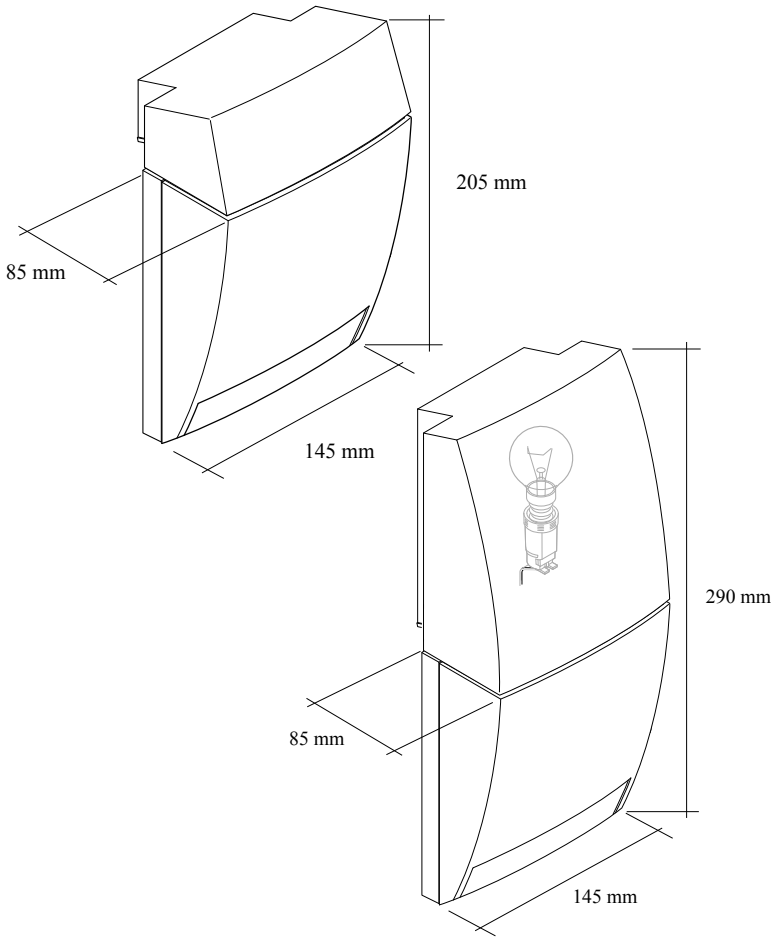
EXPLOSION VIEW



DISASSEMBLY



BOX DIMENSIONS



ASSEMBLY