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GENERAL DESCRIPTION

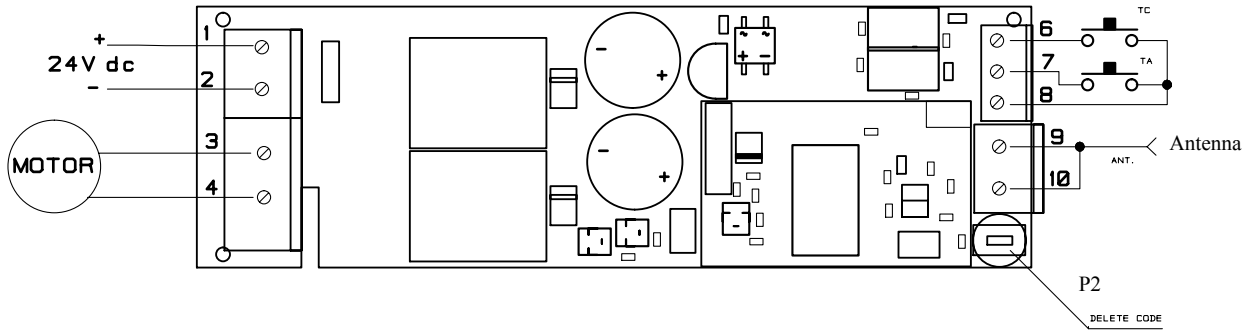
PRV868 Electonics for the remote control of tubular motors for rolling shutters with mechanical or electronic stop incorporated in the motor.
Made with an ABS V0 plastic casing.
Possibility for single or centralised commands for simultaneously controlling several shutters.
Working time is fixed at 90 sec.
Programming is all remotely done by means of transmitters. You do not have to do anything on the receiver.
The code 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.

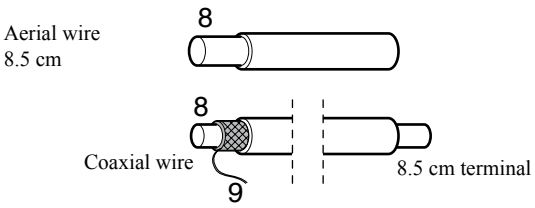
Functions:
There are two operating ways;
- the first one permits, with short impulses (from 50 to 300 ms.), the inclination of the position of the venetian blind both in the opening and in the closing direction;
- the second one allows the complete movement of the venetian blind in the opening and in the closing direction, the movement is automatic through impulses given via radio or by push-buttons higher than 300 ms.

ELECTRONIC CARD

The subject appliance must be installed only by qualified technical personnel in compliance with the standards.

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 commands by radio; all the necessary safety devices are to be seen to separately.





There can be interference with the device’s radio reception caused by several factors like, for instance:
-radioelectric interference from other appliances in the room that transmit on the same frequency
-if its casing is metal; use a plastic casing only or pass the aerial outside the casing by connecting a coaxial cable
-if the aerial wire is laid with the power supply wires; the aerial must be positioned so it is as far away as possible from the electrical cables.

MEMORISATION

Memorizing
1)push and keep pushed the push-button P2, after 0,8 sec. the buzzer will sound continuously
2)transmit the channel to be memorized, the buzzer will sound intermittently

In order to introduce a new code repeat the operations 1 and 2.
If the code has not been memorized, the causes can be the following:
-the code already exists in the memory
-the memory is full (max 83 different codes); in this case the buzzer sounds intermittently for 3 sec. at each switching on

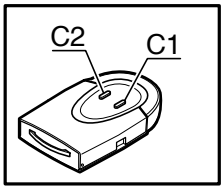
In order to cancel a code:
1)push twice at intervals of 0,8 sec. and keep pushed the push-button P2, after 0,8 sec. the buzzer will sound intermittently slowly
2)transmit the code that has to be cancelled;
In order to cancel another code repeat the operations 1 and 2.

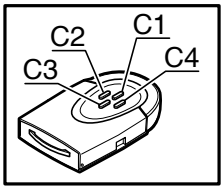
In order to cancel all the codes in the memory:
1)push three times at intervals of 0,8 sec. and keep pushed the push-button P2, the buzzer will sound intermittently fastly. Keep pushed it for at least 10 sec. until the buzzer will sound continuously. Now release the push-button.

PROGRAMMING START:

Once the transmitters have been memorised the functions are as follows:

Transmitter TVTXV868A02: Channel 1: opening
Channel 2: closing
Transmitter TVTXV868A04: Channel 1: opening
Channel 2: closing
Channel 3: opening
Channel 4: closing





The function of the transmitters is as follows:
Pressing a command button will rotate the motor in the desired direction. To stop the motor in an intermediate position press the button which corresponds to the opposite sense of rotation. For example: during the opening stage, press the closing button to stop the motor. Press the opening or closing button to close or open the shutters.

Program each shutter one at a time !!

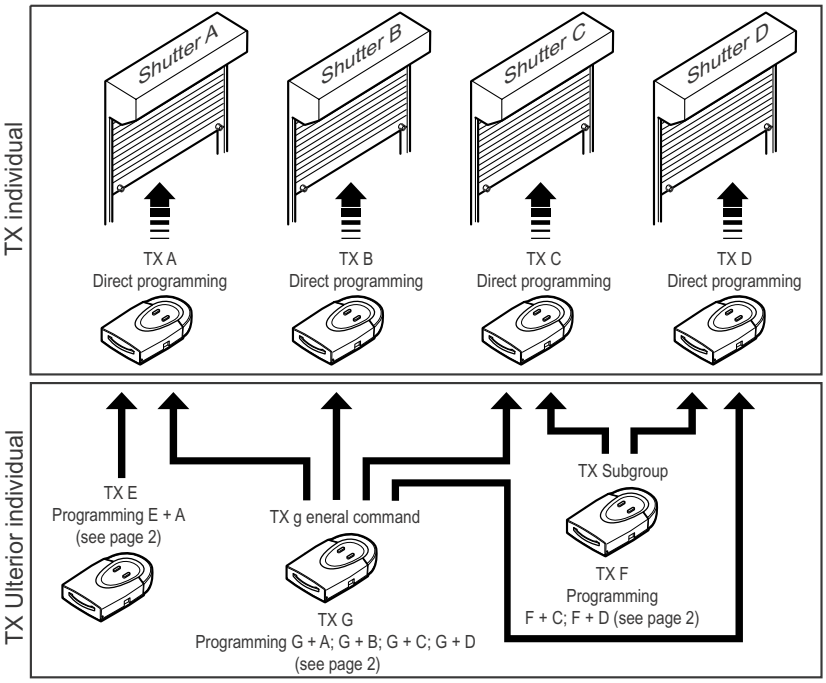
Power up the first shutter and carry out programming then proceed with the other shutters one at a time. Once all the shutters have been programmed turn on the power to the entire system. If all receivers are powered and the memory is empty, they will register all codes sent by the transmitters and it will be impossible to program the commands individually.

PROGRAMMING METHOD

Before starting programming and in order to avoid making mistakes it is necessary that you are familiar with the logic that the receivers use to memorise the channels.
Installation example for four shutters
In this stage
-Power up the shutter A is to be programmed.
-Disconnect shutter A.
-Power up shutter B, etc...
When programming ulterior transmitters it is possible to the system powered up (as long as the shutters already have an individually programmed main transmitter).
It is also possible to program shutter for shutter while you are programming individual transmitters.

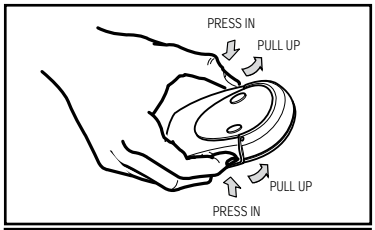
Power up the shutters one at a time during the program stages for each individual transmitter (from A to D).

If all the receivers are powered up they will all memorise the same signal during programming. It will then be impossible to individually select the shutters.

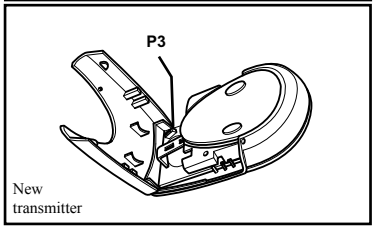


PROGRAMMING THE FIRST INDIVIDUAL TRANSMITTER (EMPTY RECEIVER)

A/ Open the transmitter

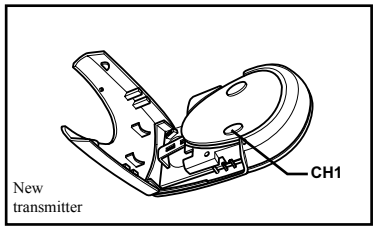


B/ Press P3



BiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiP
(5 sec.máx)

C/ Press C1



BiP, BiP, BiP, BiP, BiP, BiP

DURING THIS STAGE ONLY POWER UP THE FIRST SHUTTER!!

If there is more than one shutter in the installation you will have to connect them one by one and program the relative transmitter individually (see bottom of the page).

The receiver will sound a Beep for a maximum of 5 seconds. Pass to stage C before the 5 seconds has expired. If the receiver has stopped beeping, repeat this stage.

The receiver will sound several rapid Beeps to confirm that channel 1 has been memorised.
CHANNEL 1 HAS BEEN MEMORISED.
THE TRANSMITTER HAS NOW BECOME THE MAIN TRANSMITTER AND CAN BE USED TO MEMORISE OTHER CHANNELS FOR THIS SHUTTER.

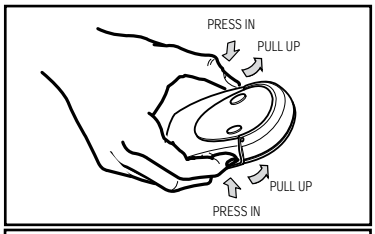
FOR SUCCESSIVE SHUTTERS
- **POWER UP THE NEXT SHUTTER;**
- **CARRY OUT STAGES A TO F WITH THE SUCCESSIVE SHUTTERS;**
- **PROCEED IN THIS WAY WITH ALL SUCCESSIVE SHUTTERS;**
- **IN THIS WAY EACH SHUTTER HAS MEMORISED ITS OWN INDIVIDUAL TRANSMITTER.**

You must keep the transmitter button pressed for at least 2 seconds to give the receiver time to decode the signal it is receiving.

PROGRAMMING AN ULTERIOR TRANSMITTER INTO THE SHUTTER

A/ You must have both the already memorised transmitter and the new to memorise.

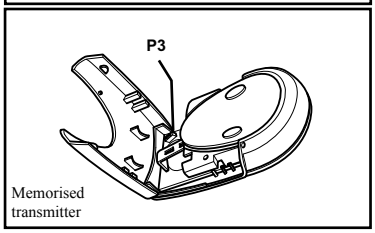
B/ Open the already memorised transmitter.



This procedure can be carried out either during the first installation when you are programming the shutters one at a time or successively when the entire system is powered up.

C/ Press P3 on the memorised transmitter

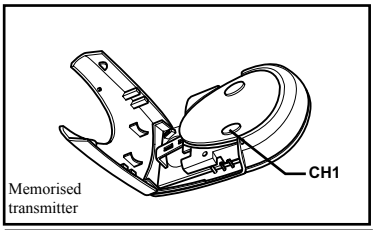
BiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiP
(5 sec.max)



The receiver will sound a continuous Beep for a maximum of 5 seconds. Pass to stage D before the 5 seconds has expired. If the receiver has stopped beeping, repeat this stage.

D/ Press C1 on the memorised transmitter.

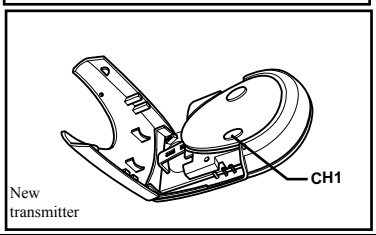
BiiiiiiiiiiiP,
BiiiiiiiiiiiP
(5 sec.max)



The receiver will stop beeping for 1 second and will then continuously Beep again for a maximum of 5 seconds. This means it has recognised your code (memorised during stage C) and is ready to memorise another channel. Pass to stage E before the 5 seconds has expired.

E/ Press C1 on the new transmitter.

BiP, BiP, BiP, BiP, BiP, BiP



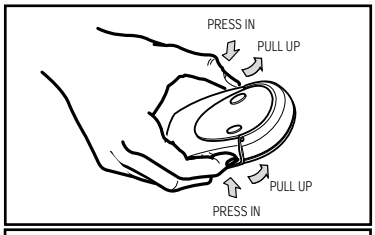
The receiver will sound rapid Beeps to confirm that channel 1and 2 has been memorised

CHANNEL 1 AND CHANNEL 2 ON YOUR RECEIVER HAS NOW BEEN MEMORISED

CANCELLING A TRANSMITTER REMOTELY

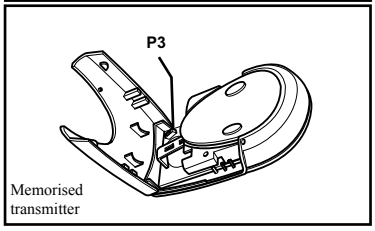
A/ You must have the transmitter that has already been memorised in the receiver

B/ Open the transmitter



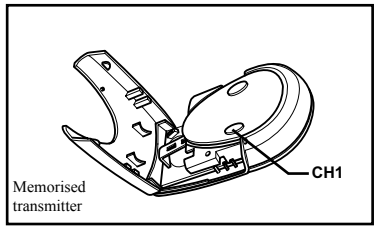
C/ Press P3 three times (at regular intervals of max. 5 seconds)

BiP.....BiP.....BiP
(5 sec.max)



The receiver will sound several slow Beeps to confirm that the code has been cancelled.
Move to the next stage within 5 seconds.

D/ Transmit the channel that you wish to cancel.



The receiver will sound a continuous Beep.
The channel 1 and 2 in your transmitter has been cancelled.
Repeat from point A to cancel successive channels.

TECHNICAL SPECIFICATIONS

Transmitter TVTXV868:

- Carrier frequency:	868.3 MHz
- Carrier frequency tolerance	± 10 ppM
- Modulation	FSK
- Power supply	3 V (CR2032)
- Available functions	2 o 4
- Average o power consumption	15 mA
- Operating temperature	-10 – +55 °C

Receiver TVPRV868:
RF stage:

- Reception frequency:	868.3 MHz
- Sensitivity grade (optimum)	1µV
- Intermediate frequency IF	10.7MHz
- Antenna impedance (in input)	50 Ohm

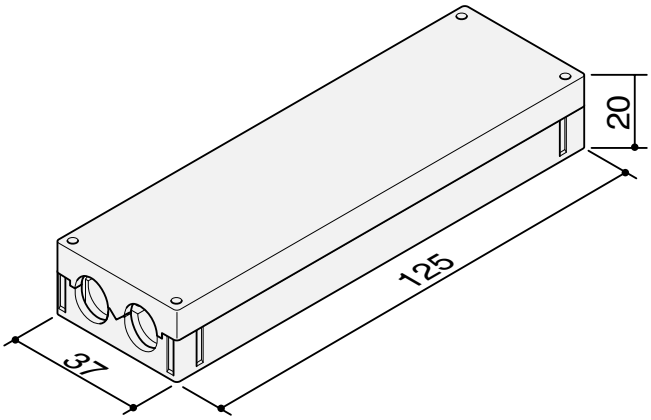
Decoder part:

- Power supply	24V
- Power consumption at rest	14 mA
- Channel excitation delay	150 ms
- Channel drop out delay	150 ms

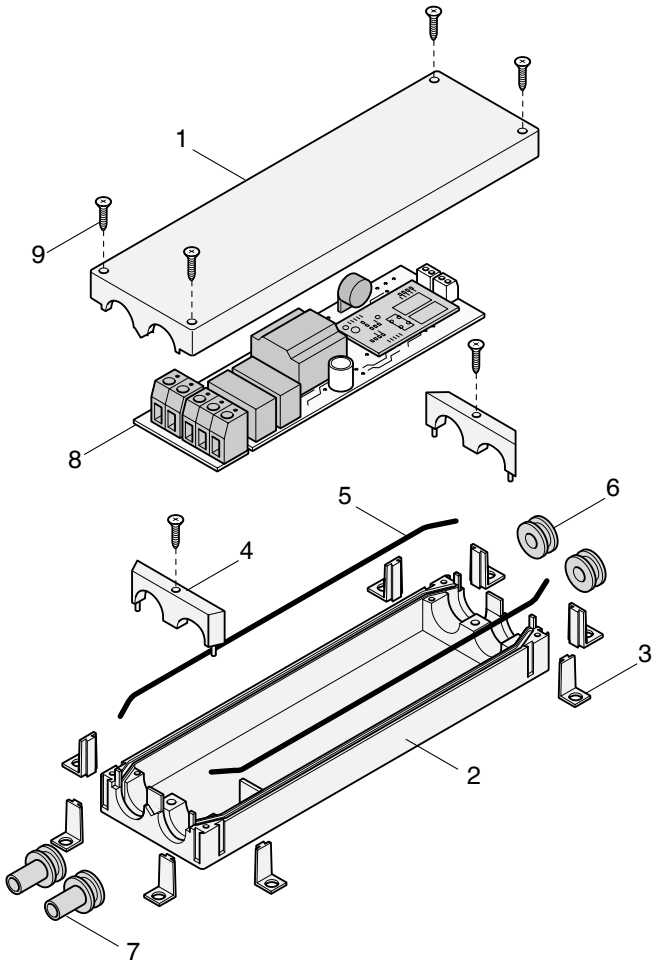
Relay maximum commutable power:

- Voltage	48 V
- Current with cos ph1 (with resistive load)	10A

DIMENSIONS

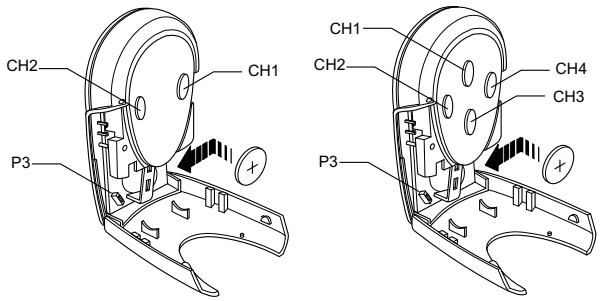


EXPLODED VIEW



ÈMETTEUR

TVTXV868A02-04



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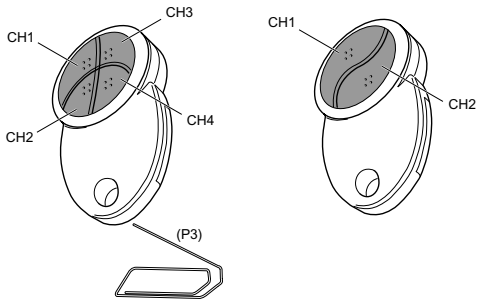

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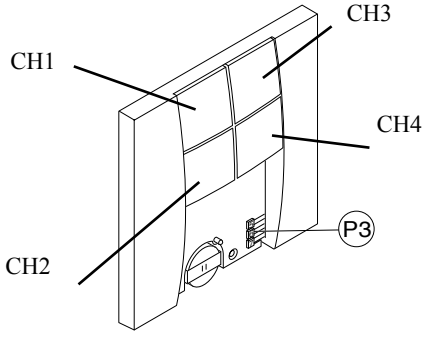

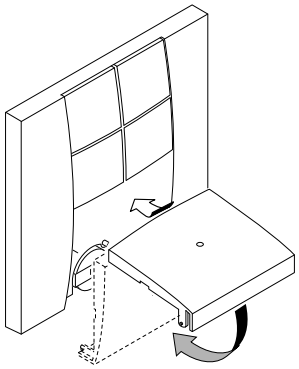

In the view of a constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice.