

GENERAL DESCRIPTION

TVPRT868 is an electronic device for the remote control of tubular motors for rolling shutters with mechanical and electrical travel limits incorporated in the motor. Single or centralised commands for the simultaneous control several appliances. The work cycle time is fixed at 1.5 minutes. All programming is carried out remotely using the transmitter. The receiver situated in the casement does not have to be accessed during programming or when adding ulterior transmitters.



The subject appliance must be installed only by qualified technical personnel in compliance with the standards. All connections must be rated for a single-phase power supply of 230V. 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 commands by radio; all the necessary safety devices are to be seen to separately.

The radio reception of the device can be jammed by some factors, such as:

- if there are radio-electrical jamming effects coming from other devices that transmit on the same frequency
- if the device is covered by metal components; use only plastic containers
- if the antenna wire is placed together with the feeding wires; place the antenna in such a way as it is the most possible far from electrical cables

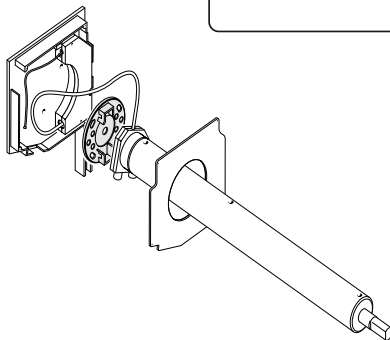
The TVPRT can receive signals either from normal radio controls or from the TVLINK system.

The specific TVLINK codes are encoded directly by the manufacturer inside an EEprom memory module that maintains the information even in case of blackouts. They are also printed on the product label so they can be inserted into the TVLINK device. These codes cannot be cancelled or modified as they are an integral part of the receiver.

Standard radio control codes can be inserted (memorized) or cancelled inside the receiver by pressing the buttons (P2) located inside the receiver itself or via radio directly from the transmitter using an indexing procedure for the specific receiver (see memorising codes via radio).



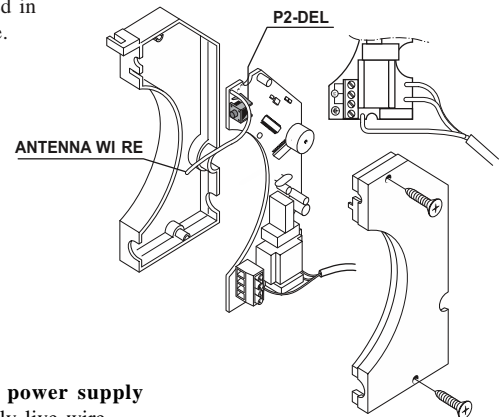
Codes to be inserted in the TVLink device.



Installing the TVPRT868 into the shutter holder

Receiver TVPRT868:

- Binding post 1: motor common
- Binding post 2: motor 1 sense of rotation
- Binding post 3: motor 2 sense of rotation
- Binding post 4: Earth wire



Wiring for a 230V~ power supply

- Brown wire: Power supply live wire
- Blue wire: Power supply neutral wire
- Yellow/green wire: Earth connection

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...

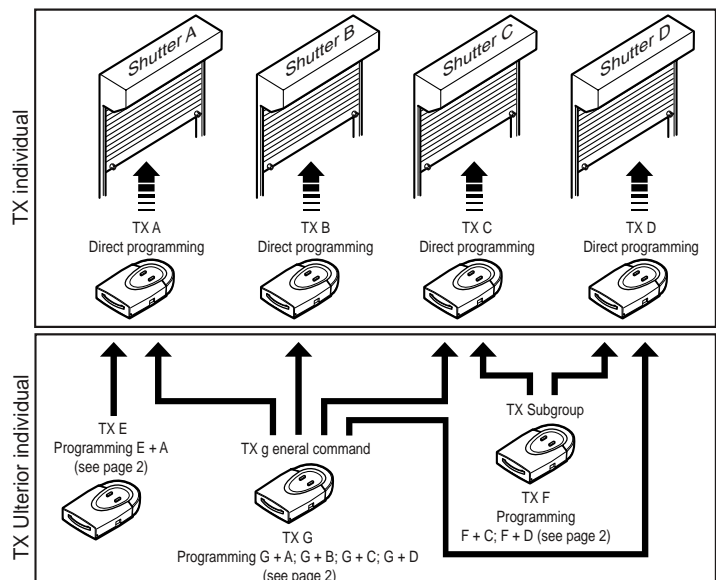
When programming ulterior transmitters it is possible to the system powered up (as long as the shutters already have an individually programmed main transmitter).

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).

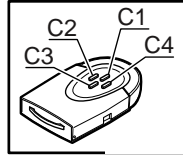
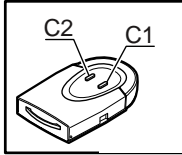
If all the receivers are powered up they will all memorise the same signal during programming. It will then be impossible to individually select the shutters.



PROGRAMMING 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.**

1-PROGRAMMING FROM RECEIVER

Functions of the push-button P2

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; when it has been cancelled, the buzzer will sound continuously

In order to cancel another code repeat the operations 1 and 2.

In order to cancel all the codes in the memory:

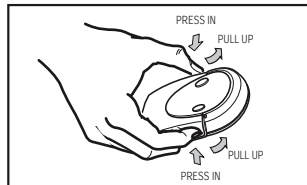
- 1) push three times at intervals of 0,8 sec. and keep pushed the push-button P2, the buzzer will sound intermittently fastly. Keep pushed it for at least 10 sec. until the buzzer will sound continuously. Now release the push-button.

2-PROGRAMMING THE FIRST INDIVIDUAL TRANSMITTER (EMPTY RECEIVER)



DURING THIS STAGE ONLY POWER UP THE FIRST SHUTTER!!

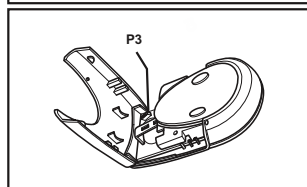
Open the transmitter



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.

B/ Press P3

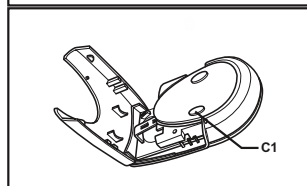


The receiver will sound several rapid Beeps to confirm that channel 1 has been memorised. CHANNEL 1 HAS BEEN MEMORISED.

THE TRANSMITTER HAS NOW BECOME THE MAIN TRANSMITTER AND CAN BE USED TO MEMORISE OTHER CHANNELS FOR THIS SHUTTER.

Beep Beep Beep Beep Beep Beep (5 sec. max)

C/ Press C1



Beep, Beep, Beep, Beep, Beep, Beep

FOR SUCCESSIVE SHUTTERS



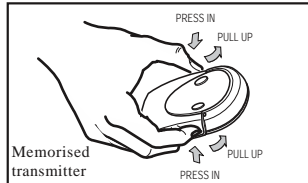
- POWER UP THE NEXT SHUTTER;
- CARRY OUT STAGES A TO F WITH THE SUCCESSIVE SHUTTERS;
- PROCEED IN THIS WAY WITH ALL SUCCESSIVE SHUTTERS;-
- IN THIS WAY EACH SHUTTER HAS MEMORISED ITS OWN INDIVIDUAL TRANSMITTER.

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

3- PROGRAMMING AN ULTERIOR TRANSMITTER INTO THE SHUTTER

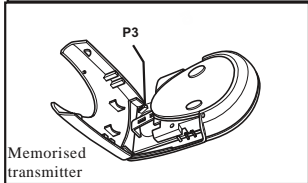
A/ You must have both the already memorised transmitter and the new to memorise.

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.

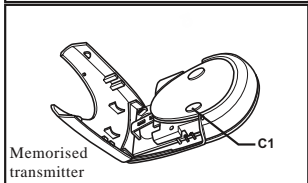
C/ Press P3 on the memorised transmitter



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.

BeeeeeeeeeeP
(5 sec. max)

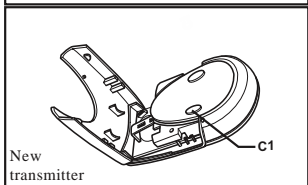
D/ Press C1 on the memorised transmitter.



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.**

BeeeeP, BeeeeP
(5 sec. max)

E/ Press C1 on the new transmitter.



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

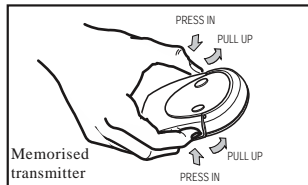
Beep, Beep, Beep, Beep,
Beep, Beep

CHANNEL 1 AND CHANNEL 2 ON YOUR RECEIVER HAS NOW BEEN MEMO-RISED

4- CANCELLING A TRANSMITTER REMOTELY

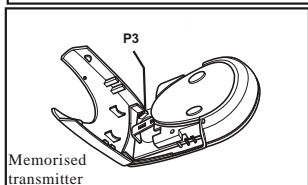
A/ You must have the transmitter that has already been memorised in the receiver

B/ Open the transmitter



The receiver will sound several slow Beeps to confirm that the code has been cancelled.

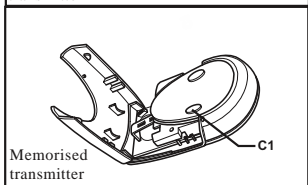
C/ Press P3 three times
(at regular intervals
of max. 5 seconds)



Move to the next stage within 5 seconds.

Beep.....Beep.....Beep
(5 sec. max)

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.

BeeeeeeeeP

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 TVPRT868:

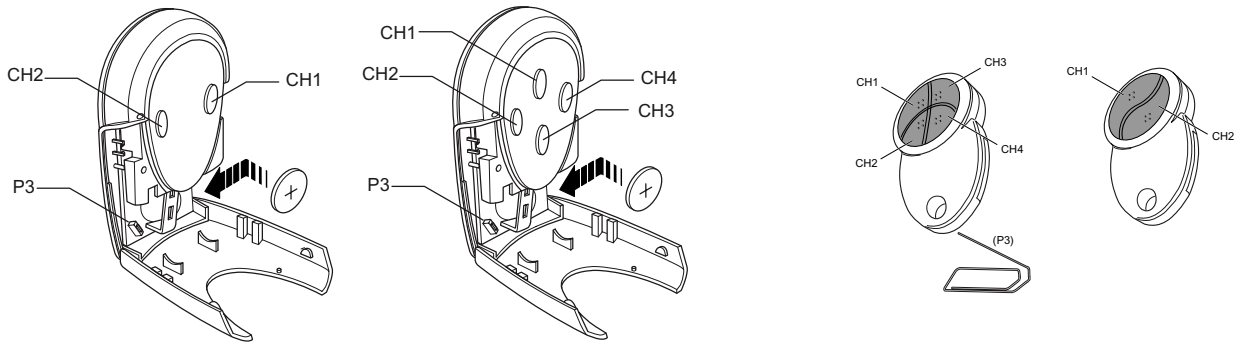
- RF stage:
- Reception frequency: 868.3 MHz
 - Local oscillation frequency: PLL
 - Sensitivity grade (optimum): 1µV
 - Intermediate frequency IF: 10.7Mhz
 - Antenna impedance (in input): 50 Ohm
- Decoder part:
- Power supply: 230 V~
 - Power consumption at rest: 14 mA
 - Channel excitation delay: 50 ms
 - Channel drop out delay: 50 ms

RELAY MAXIMUM

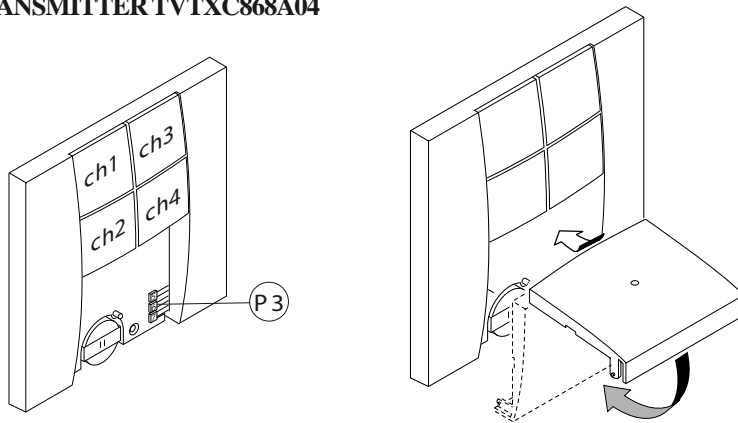
- COMMUTABLE POWER:
- Voltage: 250 V~
 - Current with cos φ1 (with resistive load): 5 A
 - Current with cos φ0,4 (with inductive load): 2 A

TVTXV868A02 - TVTXV868A04

TVTXP868A02 - TVTXP868A04



TRANSMITTER TVTXC868A04



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