

GENERAL DESCRIPTION

PRS868 Electronics 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 memorizing and the cancellation of the channels is to be made for two channels at the same time (channel 1 with channel 2, channel 3 with channel 4); it can be made via radio from the transmitter or through an internal push-button P2.

The TVPRS 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).

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.

Functioning way

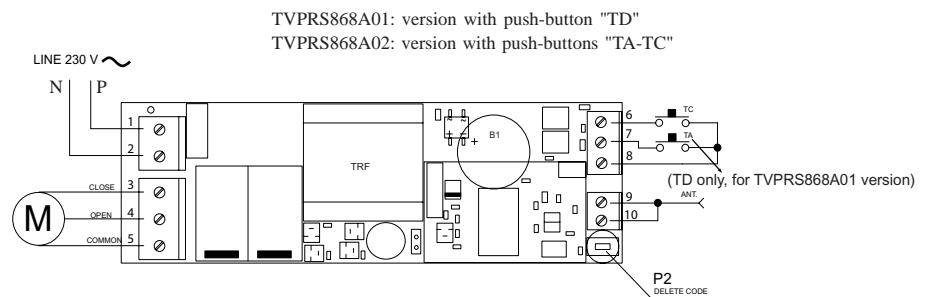
ELECTRONIC CARD



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.



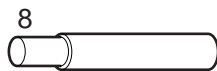
TVLINK CODE



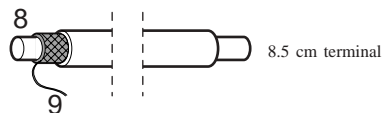
Electronic card connections:

- Terminal no.1: 230V ~ power supply phase
- Terminal no.2: 230V ~ power supply neutral motor common
- Terminal no.3: motor close command
- Terminal no.4: motor open command
- Terminal no.5: motor common
- Terminals nos.6-8: Push button connection for manual control, Close
- Terminals nos.7-8: Push button connection for manual control, Open (TD only for TVPRS868A01 version)
- Terminal no.9: Aerial signal
- Terminal no.10: Aerial earth
- P2:** Push button to memorizing or delete a single channel or the whole memory.

Aerial wire
8,5 cm



Coaxial wire



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.

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.

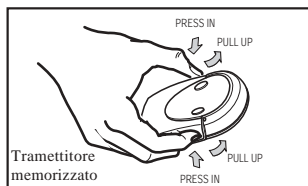
In order to cancel all the codes in the memory:

- 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.

3- PROGRAMMING AN ULTERIOR TRANSMITTER INTO THE SHUTTER

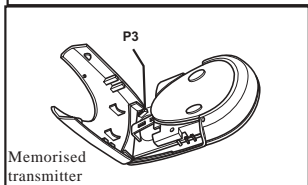
A/ You must have both the already memorised transmitter and the new to memorise.

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.

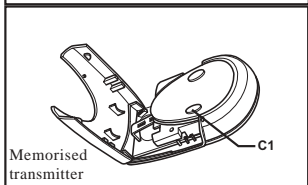
C/ Press P3 on the memorised transmitter



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)

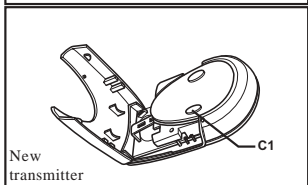
D/ Press C1 on the memorised transmitter.



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

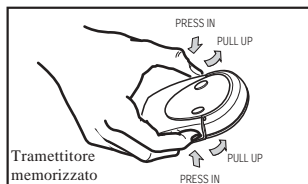
Beep, Beep, Beep, Beep,
Beep, Beep

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

4- CANCELLING A TRANSMITTER REMOTELY

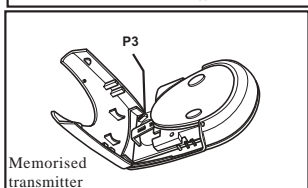
A/ You must have the transmitter that has already been memorised in the receiver

B/ Open the transmitter



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

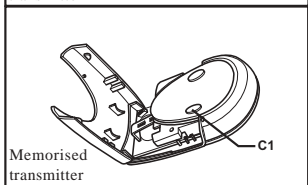
C/ Press P3 three times
(at regular intervals
of max. 5 seconds)



Move to the next stage within 5 seconds.

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

E/ 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

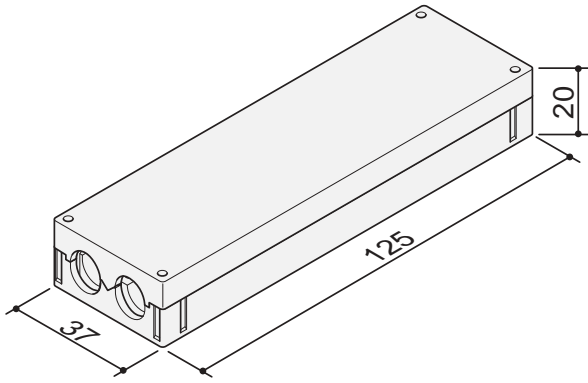
RECEIVER TVPRS868:

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

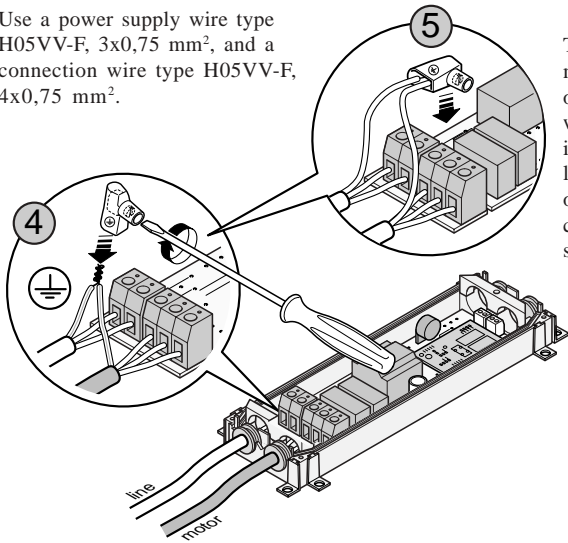
COMMUTABLE POWER:	
- Voltage	250 V _~
- Current with cos ph1 (with resistive load)	5 A
- Current with cos ph0,4 (with inductive load)	2 A

DIMENSIONS



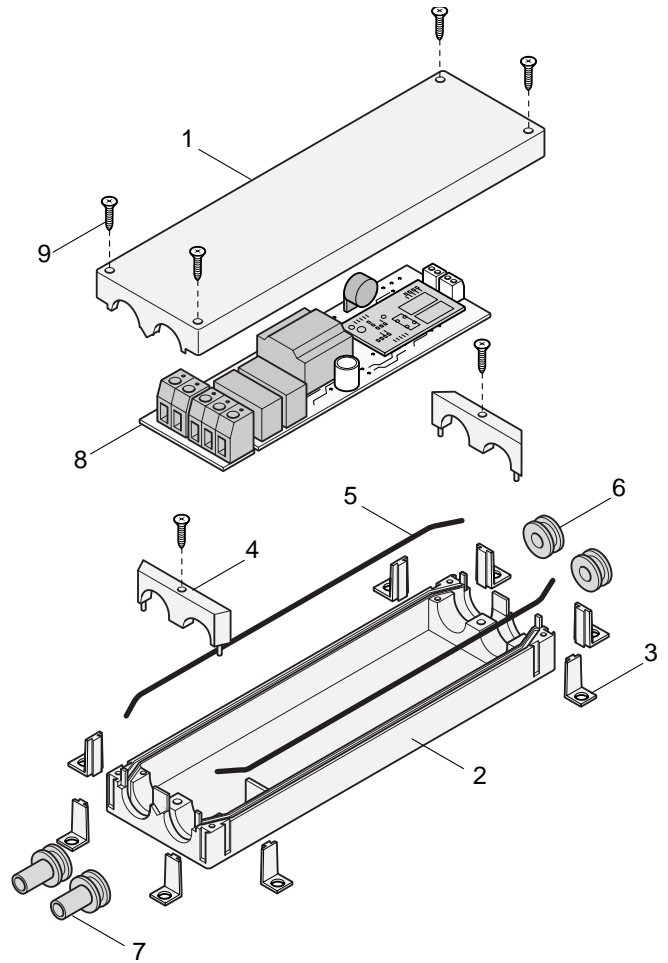
EXAMPLE FOR EARTH-MOTOR CONNECTION

Use a power supply wire type H05VV-F, 3x0,75 mm², and a connection wire type H05VV-F, 4x0,75 mm².



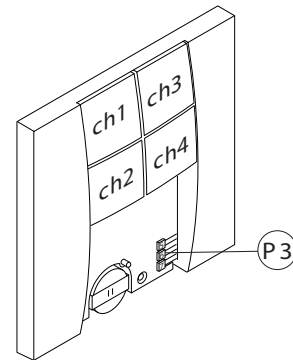
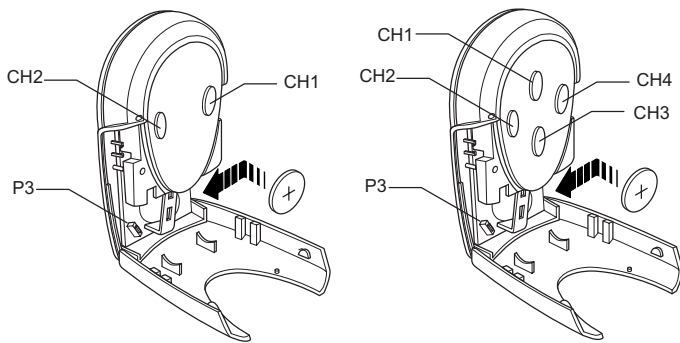
The earth wire must be longer of the other wires because it must be the last to break off if the cable clamps slacking.

CASING EXPLODED VIEW

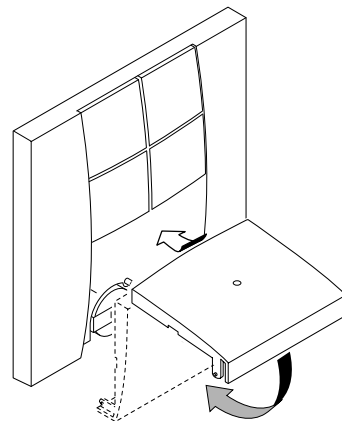
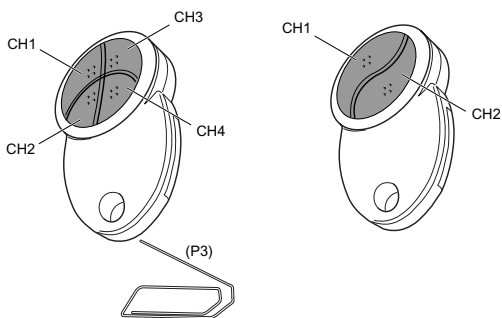


TRANSMITTER TVTXV868A02 - TVTXV868A04

TRANSMITTER TVTXC868A04



TRANSMITTER TVTXP868A02 - TVTXP868A04



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