

**TVDMM868A04 , Dimmer LR**

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.

**GENERAL DESCRIPTION**

Regulating the intensity (“dimming”) of all dimmable resistive (incandescent lamps, 230 V halogen lamps) and inductive (transformers) loads with the exception fluorescent light.

It can be commanded either by 4 buttons (L1, L2, L3, L4) or standard radio controls or directly through commands sent from the TVLINK. 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. The transmitter code may be inserted (stored) in the receiver by acting directly on the receiver or via radio directly from the transmitter. This last possibility enables new transmitters to be inserted on an existing installation without acting directly on the receiver and may be accomplished directly by the end user without the need of an installer and in any case thereby guaranteeing secrecy of the code.

**SAFETY SYSTEM**

**Thermal protection:** this protection will be activated if the internal temperature exceeds 120 °C. The dimmer can be operated again as soon as the temperature had dropped. **5 Ampere Fuse.**

**Soft Start:** power surges are electronically reduce.

**LIGHT CONTROL**

Light control operation with N.O. contacts (L1, L2, L3, L4) or radio controls. Press shortly and release to switch on or off. Press and hold to increase or decrease the light level. The dimming direction is reversed after each interruption ( increase->stop->decrease->stop->increase->etc.). The duration of a cycle (min-max) is 4 second. At the turn on there is a soft start to reduce power surge, its duration is 800 m-second.

**DIP SWITCH FUNCTIONS**

N	State	Description
1	On	Dimming function is enable for out CH1
1	Off	On-off function is enable for out CH1
2	On	Dimming function is enable for out CH2
2	Off	On-off function is enable for out CH2
3	On	Dimming function is enable for out CH3
3	Off	On-off function is enable for out CH3
4	On	Dimming function is enable for out CH4
4	Off	On-off function is enable for out CH4

**Loads which can be connected in the ON/OFF mode (minimum load 15W):**



Halogen lamps



Toroidal transformers



Electronic transformers



Laminated transformers



Fluorescent



Fans

**Keep attention:** before connecting a not dimming load, it is necessary to place the dip-switch involved in the ON/OFF function and give supply for at least 5 sec.; then, you can connect the load.

**Loads which can be connected in the DIMMER mode (minimum load 25W):**



Halogen lamps



Toroidal transformers



Dimming electronic transformers



Laminated transformers

**Memorising of a single channel of the transmitter from the internal buttons (P1-P2-P3-P4), to associate with a singular dimmer.**

Push buttons associate with dimmer outputs:  
 Push button P1 to associate the channel with the output L1  
 Push button P2 to associate the channel with the output L2  
 Push button P3 to associate the channel with the output L3  
 Push button P4 to associate the channel with the output L4

- 1- Press and hold down one of the push buttons P1, P2, P3, P4, the buzzer will sound continuously.
- 2- Transmit the channel which is to be memorised, the buzzer will sound intermittently when the memorizing is done.

To memorise another channel repeat the points from 1 to 2.

**Memorisation in pairs of the channels by means of the internal push buttons P1-P2-P3-P4, to associate with a singular dimmer.**

The memorisation is made in the following way: channel 1 with channel 2 and channel , 3 with channel 4 (the channels 1 and 3 have a turn on- function, the channels 2 and 4 have a turn off- function). This memorisation does **not permit the dimming**, but only the turning-on and turning-off functions.

- 1- Press two times and hold down one of the push buttons P1-P2-P3-P4, the buzzer will sound continuously.
- 2- Transmit one channel of the channel- pair that has to be memorised. Once it has been memorised the buzzer will sound intermittently.

**Memorisation general command ON/OFF**

The memorisation is made in the following way: channel 1 with channel 2 and channel 3 with channel 4 (the channels 1 and 3 have a turn on- function, the channels 2 and 4 have a turn off- function). This memorisation does not permit the dimming, but only the turning-on and turning-off functions.

Channel 1: total switching light on  
 Channel 2: total switching light off  
 Channel 3: total switching light on  
 Channel 4: total switching light off

- 1- Press and hold down the push button P5, the buzzer will sound continuously.
- 2- Transmit one channel of the channel- pair that has to be memorised. Once it has been memorised the buzzer will sound intermittently.

To memorise another channel repeat the points from 1 to 2.

**HOW TO INSERT AND ADDRESS A TRANSMITTER VIA RADIO WITHOUT ACCESSING THE RECEIVER WHEN A TRANSMITTER IS ALREADY MEMORISED**

- 1) Press the button inside the transmitter (of an already memorised transmitter) . The buzzer will sound continuously for 5 seconds.
- 2) Press the button of a channel already in the receiver memory (you have activated the memory of the desired receiver) where you want to address the new transmitter channel. The Buzzer will stop sounding for 1 second and will begin sounding for 5 seconds. Unless desired, do not use channels with the centralised function to avoid storing the code in all receiver memories.
- 3) Transmit the channel which is to be memorised within 5 seconds. Once the channel is memorised the buzzer will sound intermittently.

To insert ulterior functions repeat operations 1-2-3.

- If the receiver memory is full, buzzer will sound intermittently.

When the code has not been stored:

- 1) The code is already in memory.
- 2) The receiver memory is full (max 42 codes) the Buzzer will make 3 bip each time it is switched on end during the memorisation.

**TO CANCEL A CODE WITH THE PUSH BUTTON P1,P2,P3,P4 IN THE RECEIVER:**

- 1) Press P5 for 2 times and hold down, will sound intermittently slowly.
- 2) Transmit the code which is to be cancelled , once it has been cancelled, buzzer will sound continuously.

To cancel ulterior code repeat points 1 and 2.

**TO CANCEL VIA RADIO A CODE THROUGH A TRANSMITTER ALREADY SET IN THE MEMORY**

- 1) Press the button inside the transmitter for three times within 5 seconds, buzzer will sound intermittently slowly.
- 2) Transmit the code which is to be cancelled within 5 seconds, once the code has been cancelled buzzer will sound continuously.

To cancel ulterior codes repeat points 1 and 2

**TO CANCEL ALL MEMORISED CODES**

- 1) Press “P5” for three times and hold down, the buzzer will sound rapidly at least for 10 seconds, until the buzzer will sound continuously.

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**ANTENNA**

As Antenna serves an insulated wire, which has been specially selected for this purpose. Please, position it as far away from metallic objects as possible. Do not shorten, lengthen, or otherwise modify the wire.

**Electrical characteristics**

Supply voltage	230 V ~ 50Hz
Load maximum power	700W x 4 @ 35 °C
Load maximum power	500W x 4 @ 55 °C
Load minimum power	25 W
Duration of dimming 0/100%	4 sec.
Duration group command	200 ms.

**RADIO TECHNICAL SPECIFICATIONS  
TRANSMITTERS**

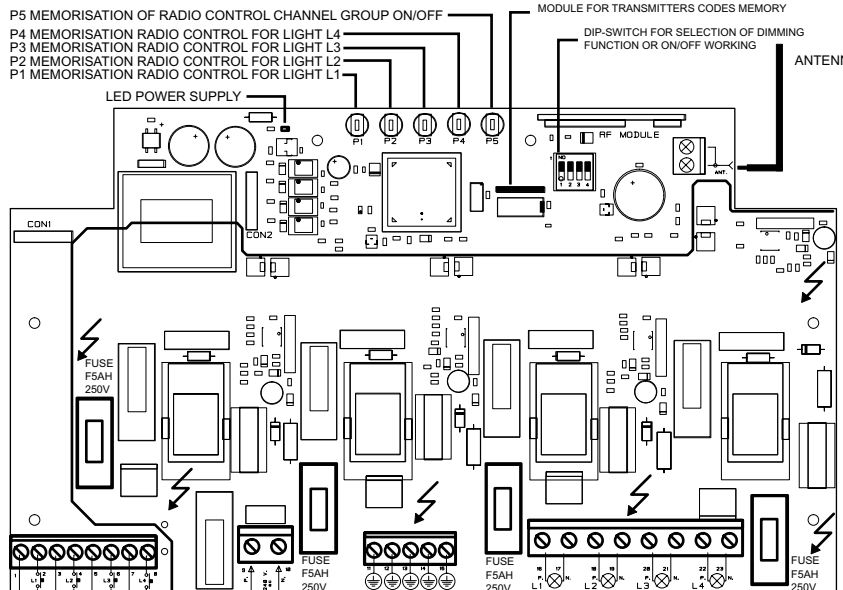
-carrier frequency	868.3 MHz
-carrier frequency tolerance	±10 ppm
-band width	>25 KHz
-apparent radiated power	-3÷-1dBm
-apparent power harmonic producedes	<-54 dBm
-modulation	FSK
-power supply	3V ± 10% (lithium battery CR2032)
-maximum power consumption	18 mA
-operating temperature range	-10° ÷ +55°C

**RECEIVERS RF Section**

-reception frequency	868.3 MHz
-intermediate frequency IF	10.7 MHz
-antenna impedance in input	50 Ohm
-sensitivity (finely tuned signal)	1 µV

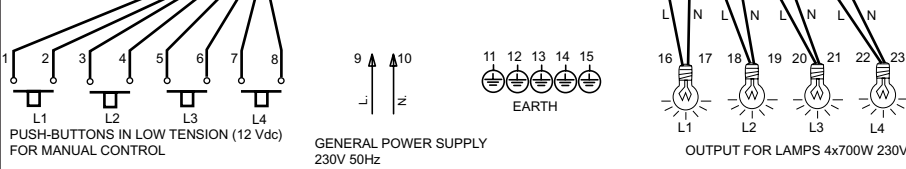


Codes to be inserted in the TVLink device.

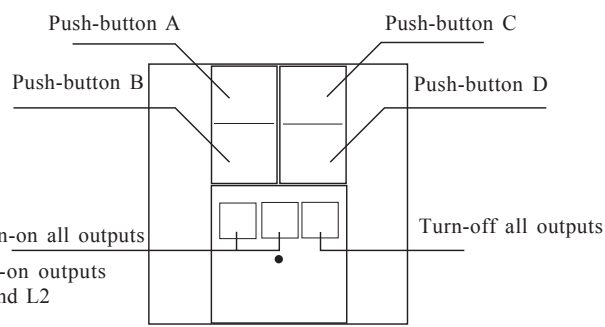


**Terminal board connections**

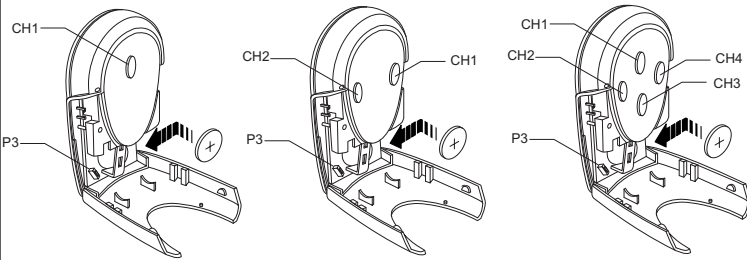
- Binding post nr.1 Common input for push-button
- Binding post nr.2 Input for push-button, manual control L1
- Binding post nr.3 Common input for push-button
- Binding post nr.4 Input for push-button, manual control L2
- Binding post nr.5 Common input for push-button
- Binding post nr.6 Input for push-button, manual control L3
- Binding post nr.7 Common input for push-button
- Binding post nr.8 Input for push-button, manual control L4
- Binding post nr.9 Power supply input 230V ~ live
- Binding post nr.10 Power supply input 230V ~ neutral
- Binding post nr.11 Earth
- Binding post nr.12 Earth
- Binding post nr.13 Earth
- Binding post nr.14 Earth
- Binding post nr.15 Earth (internal connection)
- Binding post nr.16 Output L1 (live)
- Binding post nr.17 Output L1 (neutral)
- Binding post nr.18 Output L2 (live)
- Binding post nr.19 Output L2 (neutral)
- Binding post nr.20 Output L3 (live)
- Binding post nr.21 Output L3 (neutral)
- Binding post nr.22 Output L4 (live)
- Binding post nr.23 Output L4 (neutral)



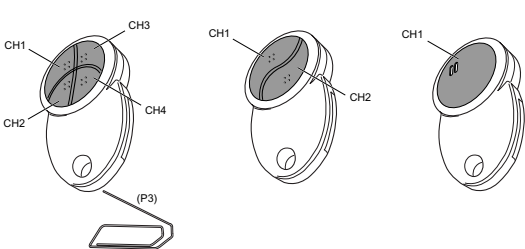
**TVTXC868A07  
(Single or multiple commands)**



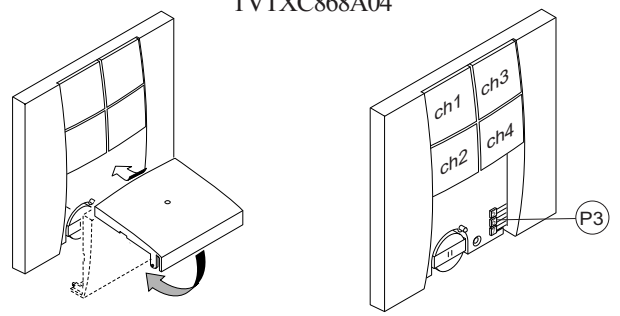
**TVT XV868A01/02/04**



**TVT XP868A01/02/04**



**TVT XC868A04**



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

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