

EN

# 1-channel Dimmer TVDMM868A10S

## Attention

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. All the necessary safety devices are to be seen to separately.

## 1- Description

Dimmer for the manual or radio control of devices with 0-10V or 1-10V input. Possibility of supplying loads up to 230V. by means of a 16A relay, for fluorescent lamps max800W.

Possibility of the following functions:

- Memory last level of luminosity intensity.
- Memorisation via radio of a new transmitter (without accessing the receiver).
- Delete via radio of a transmitter or a channel without accessing the receiver.
- Possibility to memorise up to 16 transmitters.
- Acoustic (buzzer) indication of memorisation and delete operation.

## 2- Connections referred to the general power supply 230V

- Input for general power supply 230 V.
- Output for 230 V ~ 800W load., 16A relay.

## 3- Low tension connections isolated by means of transformer.

- Normally opened input for manual pushbutton
- 0-10V or 1-10V Output
- Select 0-10V / 1-10V functioning by means of a jumper

## 4- Device pushbuttons:

- P1: Manual control pushbutton for load functioning test.
- P2: Pushbutton for memorisation of transmitters.
- P3: Pushbutton for deletion of transmitters.

Pushbuttons combinations:

- P1 + P3: Activation or deactivation of last setting memory function.

## 5- LED indication

- LED 1: Not use
- LED 2: Receiving of a radio signal.
- LED 3: Overload 0-10V output
- LED 4: Active memory function.

## 6- Activation-deactivation memory function (light memory)

Memory function activated: by controlling the load in ON/OFF mode, the memory function adjusts at the turning-on the luminosity on the last settled value.

Memory function deactivated: the light turn on at the maximum value.

Activation-deactivation memory function:

press at the same time the push buttons P1 + P3, the LED 1 will commutate its status. The dimmer receiver of default gets out with memory function in On.

## 7- Input manual pushbutton for light adjusting

Short impulse (< 800mS) = ON/OFF

Long impulse (> 800mS) = adjusting upgrade or downgrade.

## 8- Memorisation standard transmitter channels (memorisation from receiver)

ATTENTION: The first transmitter can only be memorized using the receiver.

### 8.1- Memorisation of particular transmitters with 7-channels

- 1- Press and hold down the pushbutton P2, the buzzer will sound continuously.
- 2- Transmit one of the channels Ch1-Ch2-Ch3-Ch4 of the transmitter which is to be memorised, once the channel is memorised, the buzzer will sound intermittently, release the pushbutton.

Repeat points 1 and 2 to memorise ulterior transmitter.

The memorised transmitter will have of default the following settings of scenes:

- Pushbutton Ch1: Luminosity at maximum
- Pushbutton Ch2: Luminosity at 75%
- Pushbutton Ch3: Luminosity at 50%
- Pushbutton Ch4: Luminosity at the minimum.
- Pushbutton Ch7: Switches off the light.

### 8.2 Memorisation of single channel transmitters with dimming function:

By memorizing in this way, the channel memorised with Dimmer function. With short impulses the light turns on and off; by holding the push button pressed the light intensity increases or decreases.

1. Press the push button P2 of the receiver twice and hold it down, the buzzer will sound continuously.

2. Transmit the channel to be memorised, the memorisation is signalised by an intermittent sound of the buzzer; release the push button.

### 8.3 Memorisation of single channel transmitters with ON function:

By memorizing in this way, the channel memorised with On function turn on the light.

1. Press the push button P2 of the receiver three times and hold it down, the buzzer will sound continuously.

2. Transmit the channel to be memorised, the memorisation is signalised by an intermittent sound of the buzzer; release the push button.

### 8.4 Memorisation of single channel transmitters with OFF function:

By memorizing in this way, the channel memorised with Off function turn off the light.

1. Press the push button P2 of the receiver four times and hold it down, the buzzer will sound continuously.

2. Transmit the channel to be memorised, the memorisation is signalised by an intermittent sound of the buzzer; release the push button.

## 9- Change the level of light intensity of the scenes

### 9.1 Case 1:

- press the pushbutton of the scene which is to be modified, the load will turn on at its value;
- adjust the new value with the two pushbuttons Ch5 Ch6;
- hold down the OFF pushbutton for 5 sec., during this time the load will turn off;
- after 5 sec. the buzzer of the receiver will sound for 5 sec. and the load will turn on at the new value.

### 9.2 Case 2: (more receivers have memorised the same 7-channel transmitter)

In the case that several receivers have the same 7-channel transmitter memorised, and each receiver must have a different scene value, proceed with the programming of the identification number of the receiver. Once the identification number is programmed it is possible to select the desired receiver by means of the push buttons.

### 9.3 To set an identification number of a receiver:

The identification of the number which has been associated to the dimmer is displayed by means of the leds L4 and L3: the flashings of the led 4 represent the tens and the flashings of the led 3 represent the ones.

1. Press the push buttons P1 and P2 of the receiver at the same time; the led L2 turns on.
  2. After approx. one second the leds L4 and L3 start flashing in order to indicate the identification number which has been associated. For example: if the associated number is 13, the led L4 flashes one time and the led L3 flashes 3 time.
  3. Press the push button P3 until the number to be associated to the dimmer. Max. 20 identification number. Each time the push button P3 is pressed, the led L2 turns off. After having reached twentieth number the led 2 flashes. In the case of error, reset the counting by pressing P2.
  4. Memorise the set identification number and exit the procedure by pressing P1. The buzzer will sound for 5 sec.
- This operation has to be done in each receiver which has the 7 channel transmitter in common.

### 9.4 Scenes changing procedure:

1. Press and hold one of the 4 channels (Ch1, Ch2, Ch3, Ch4) of the transmitter concerned for 5 seconds down.
  2. After these 5 seconds, the turning-off, the turning-on of the lights and the sound of the buzzer signalise the entering in the procedure of the scenes changing.
  3. Press the pushbutton Ch5 of the transmitter (III dimmer UP) or the push button Ch6 of the transmitter (II dimmer DOWN) in order to select a dimmer. The selected dimmer will be the one with the turned-off light; if the light intensity of the selected dimmer is above 50%, the light will turn off, otherwise if the light is lower than 50% the light turns on and then turns off.
- In each dimmer is set an identification number which corresponds to the number of pressings of the push button Ch5 (see "set the identification number of a receiver")
4. Once the dimmer is selected, press the channel of the scene which is to be modified. The dimmer turns on at the maximum value, whilst the others remain turned-on and blocked.
  5. Set with the push buttons Ch5 and Ch6 the new light value. In this procedure it is possible to dim from the minimum to the maximum value. In order to memorise the OFF scene, press another time the channel of the scene which has just been selected.
  6. Press the push button Ch7 OFF to exit and memorise the new scene. The memorisation is signalised by the turning-off and turning-on of the charge at the memorised value.
- With this operation all the other dimmers will be unblocked and will return to the state in point 3. In order to modify the scene of another dimmer, repeat the points 3-6.
7. Press the push button OFF to exit the procedure; all lights will turn off.

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# 10. Memorisation transmitter channels (ulterior transmitter, memorised with addressing)

By memorising a 7 channel transmitter, the transmitter acquires the same functions and the same scenes of the 7 channel transmitter used for the addressing in point 2.

- 1- Press the pushbutton P3 of the transmitter, the buzzer will sound continuously.
- 2- Press within 5 seconds a channel present in the memory of the receiver (addressing), the buzzer will stop sounding for 1 sec. and then carry on for 5 sec.
- 3- Transmit the channel which is to be memorised, once the channel is memorised, the buzzer will sound intermittently, release the pushbutton.

Repeat points 1-2 and 3 to memorise ulterior channels.

## 11. Delete of a single channel or transmitter from receiver

- 1- Press and hold down P3, the buzzer will sound with slow intervals.
- 2- Transmit the channel or transmitter which is to be cancelled, once it is cancelled the buzzer will sound continuously.

Repeat points 1 and 2 to cancel ulterior transmitter.

### 11.1. Delete of all memorised codes from receiver

- 1- Press two times and hold down P3, the buzzer will sound with quick intervals.
- 2- Hold down the pushbutton, once it is cancelled after 10 sec. the buzzer will sound continuously.

### 11.2- To cancel via radio a code through a transmitter already set in the memory

- 1) Press P3 of the transmitter for three times at regular intervals 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

## 12. TVLINK compatibility

The dimmer will be memorised on the TVLINK like a normal receiver, in each device you can find the TVLINK code which is to be inserted.

The commands are sent in the following way:

- Close: works as control of turning off.
- Open: works as ON/OFF command if used in impulsive function, or in dimming command if hold down for longer time.

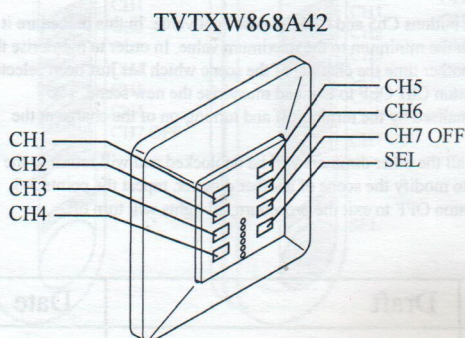
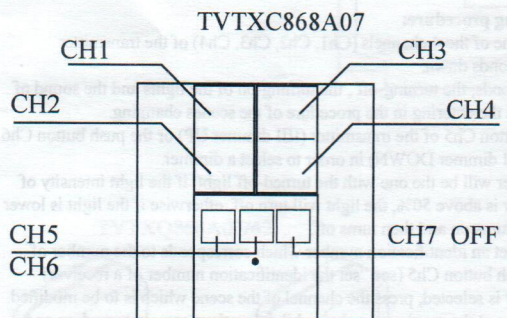
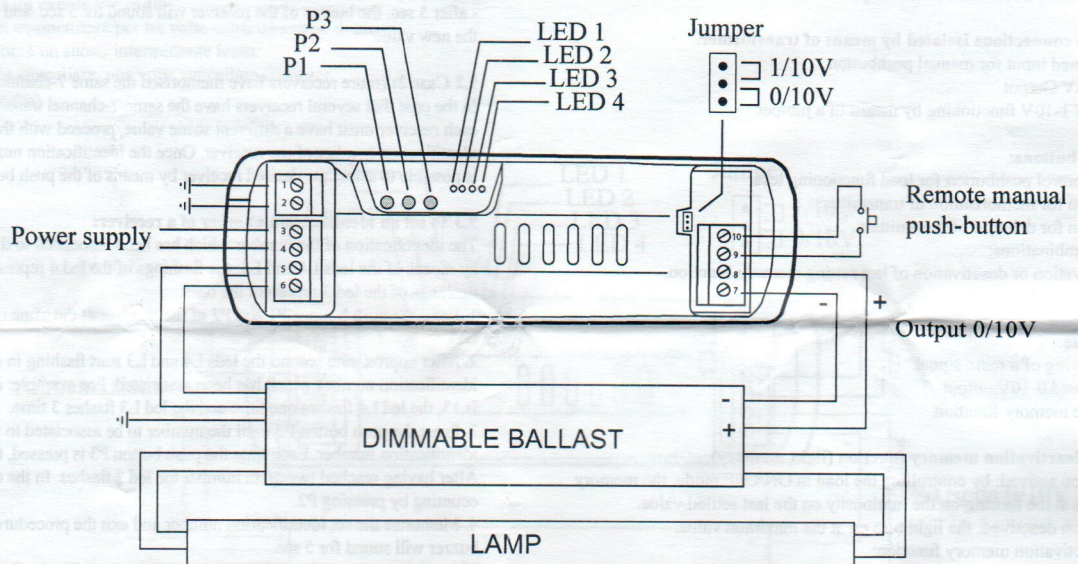
Attention: in the TVLINK parameters of code memorisation, put on OFF the sending time of the signal.

The receiver works with all transmitters of the TVLINK series.

## 13. Technical specifications

- Power supply	230 V 50 Hz +/- 10%
- Frequency radio part	868.3 MHz
- Modulation	FSK
- Case material	V0
- Led transformer control	0-10V
- Control of the dimmer fluorescent lamp	1-10V
- Load control (16A relay)	800W

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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