



## Radio timed dimmer

### Varying and timing the brightness in a lighting circuit

The Yokis radio timer dimmer can be installed quickly and easily, making it ideal for creating soft lighting zones and adjusting the light intensity of rooms to meet the needs of the occupants. It can be controlled by wire and by radio.

Fully integrated into the YokisPro configuration application for the Professional and the YnO user application, the process of installing and configuring a dimmer **has never been simpler or faster.**



# RADIO MICROMODULES

## DIMMER TIMED WITH NEUTRAL OPERATION

**MTV500ERP**

5454457

500 W radio  
timed dimmer  
with neutral wire**MTV300MRP**

5454479

300 W radio  
DIN rail  
timed dimmer  
with neutral wire

### The advantages

- ▶ It is possible to activate the timer, from 2 seconds to 4 hours, with gradual switch-off notification.
- ▶ Double timing keeps lights on (12 hours) or a unlimited duration.
- ▶ Allows the minimum brightness level to be set and a preferred value to be stored.
- ▶ Dimmer compatible with dimmable LEDs by adding the accessory **SMARTCHR** (item no. **5454089**).
- ▶ Centralisation via Radio Bus.
- ▶ Consumption is reduced according to brightness variation.
- ▶ Compatible with existing wiring: with buttons common to neutral or to live.
- ▶ "Soft start/soft stop" function: protects the light bulb by increasing its lifetime, and improves the user's perception of light.
- ▶ Application for the deaf and hearing impaired that allows a light point to be used for visual signalling (e.g. when someone rings the doorbell, the lamp flashes).
- ▶ Dimmer with children's room night light function: it is possible to select 20% lighting and set it to gradually decrease during a 1-hour period to a night light (duration: 12 hours) with seven short touches of the button. It also enables the activation of lights in corridors or other rooms for night-time movements.

Radio handbook &gt; page 64



### Radio power features:

- ▶ Radio coverage:
  - inside a house < 100 m<sup>2</sup>
  - through a load-bearing wall or slab
  - 250 m unobstructed field of view
- ▶ Frequency: 2.4 GHz
- ▶ Two-way transmission with notification LED on transmitter
- ▶ Receivers can be connected for group controls and centralised via Radio Bus

### Available as a kit!

**KITRADIOVARVVP**  
5454523

**START LIGHT KIT**  
1054/4

**SMART LIGHT KIT**  
1054/5

**SYSTEM BASE KIT**  
1054/6

## ACCESSORIES



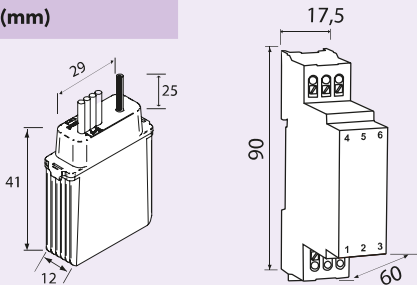
**SMARTCHR** 5454089 - **3 W resistive load for energy-saving light bulbs and LED.**  
Prevents flickering of light bulbs.

# RADIO MICROMODULES

## RADIO TIMED DIMMER WITH NEUTRAL OPERATION

### TECHNICAL FEATURES

<b>Network voltage</b>	230V ~ (+10% -15%) - 50Hz
<b>Power MTV500ERP</b>	min. 5W max. 500W / 250VA
<b>Power MTV300MRP</b>	min. 5W max. 300W / 150VA
<b>Maximum current</b>	<u>MTV500ERP</u> : 2A/1A <u>MTV300MRP</u> : 1.3A
<b>Sealed boxes other boxes</b>	1.3A / 300VA 2.2A / 500VA
<b>Ambient temp.</b>	- 20 °C + 40 °C
<b>Relative humidity</b>	<u>MTV500ERP</u> : from 0 to 90% <u>MTV300MRP</u> : from 0 to 70%
<b>Dimensions (mm)</b>	



### FUNCTIONAL FEATURES

- ▶ Variation principle through cut-off at phase start or phase end with automatic load type recognition.
- ▶ Inrush current limitation through filament pre-heating.
- ▶ Built-in automatic switch in case of short circuit on the load, with automatic reset after the fault is eliminated.
- ▶ Programming is saved in case of power failure.
- ▶ Electronic overheating protection.
- ▶ Immune to mains disturbances up to 1.5kV.

### RADIO FEATURES

- ▶ Radio coverage:
  - inside a house < 100 m<sup>2</sup>
  - through a load-bearing wall or slab
  - 250 m unobstructed field of view
- ▶ Frequency: 2.4 GHz
- ▶ Transmission: Two-way with notification LED on transmitter

### ITEM NUMBER TABLE

	Serial number	Item number	P.
<b>Timed dimmer for recessed installation</b>	MTV500ERP	5454457	35
<b>Timed dimmer on DIN rail</b>	MTV300MRP	5454479	35

### STANDARDS AND CERTIFICATIONS



### MAIN FUNCTIONS

#### 1/ Default configuration of timer duration:

The default duration is unlimited. A duration of 2 minutes up to 240 minutes can be configured through short consecutive touches (see table below). It is possible to configure the duration in seconds (from 2 to 240 seconds) with 25 short touches. It is possible to switch back to minutes with 26 touches. Configurations are saved in case of power failure.

#### 2/ Long duration:

A 12-hour long duration can be enabled with 6 short touches of the button. A new short press allows switching off: the 12-hour duration is suppressed and the previous timing configuration is reactivated.

#### 3/ Warning with gradual switch-off:

The warning with gradual switch-off is enabled by default. The warning can be disabled or re-enabled with 24 short touches: 1 minute before the end of the scheduled lighting period, the micromodule blinks once to warn of the gradual switch-off. After the blinking, it is possible to set the same lighting schedule once again with one short touch of the button.

#### 4/ Children's room night light mode:

The children's room night light can be switched on with 7 short touches of the button. In this case the lighting is set to 20% and the light gradually decreases for one hour until only a night light is left for 12 hours.

#### 5/ The operation status is saved in case of power failure:

The dimmer saves the operation status in case of power failure. If the dimmer was off at the time of the power failure, the lights will remain off; if it was on, it will be switched back on at the same brightness it was when the power was cut off. This function can be disabled with 35 short touches.

#### 6/ Relay mode:

In this way, the MTV500ERP or MTV300MRP no longer cuts off the phase. It operates as a relay contact (equivalent to a toggle relay). This function can be enabled or disabled with 20 short touches.

#### 7/ Memory:

The last variation level that was set with a long touch is saved, and is recalled at the following switch-on or with 2 short touches, depending on the configuration ( see below).

#### 8/ Memory on first press:

In certain types of applications, it may be desirable to have the value memorised with the first touch available. Touching twice will call up 100% illumination. This memory mode can be enabled or disabled with 29 short touches (by default, the 100% Memory Mode is selected with the first touch).

#### 9/ Minimum brightness configuration:

Configure the minimum desired level with a long touch of the button.

- ▶ Then, apply 27 short touches. The micromodule replies by blinking 7 times for confirmation.
- ▶ The minimum value can be restored with 28 short touches.

#### 10/ Configuration lock:

To prevent any changes from being made, the micromodule can be blocked with 21 touches (reply: 1 flash). In all cases, the MTV500MRP/MTV300MRP is automatically blocked after 6 hours.

#### 11/ Using the default brightness values:

Short touches	Lighting (by default)
1	100%
2	Stored level
3	50%
4	Minimum brightness
7	Children's room night light mode

# RADIO MICROMODULES

## RADIO TIMED DIMMER WITH NEUTRAL OPERATION

### MAIN FUNCTIONS

#### 12/ Grouping of several MTV500ERP/MTV300MRP dimmers or increase of switched power:

Each product must individually control maximum 500W / 250VA (MTV500ERP) or maximum 300W / 150VA (MTV300MRP). It will then be possible to group them together via radio. The dimmers operate simultaneously.

To group together via radio 2 or more MTV500ERP/ MTV300MRP:

- ▶ Apply 4 short touches to the "connect" tab of a MTV500ERP/ MTV300MRP. A series of four flashes is made by the MTV500ERP/MTV300MRP LED.
- ▶ Then shortly press once the tab on the other MTV500ERP/MTV300MRP. The lighting responds with 4 flashes.

To disable the connection, press for over 4 seconds the tabs on each MTV500ERP/ MTV300ERP.

#### 13/ Use with energy-saving light bulbs or LED dimmers:

When the level of variation is low (load less than 11 VA), and the light flickers, it is necessary to increase the minimum brightness level of the dimmer (see §9) or connect one or more SMARTCHR accessories in parallel between the lamp return and the neutral operation.

**! Check that it switches on at the set minimum variation. If this is not the case, adjust the minimum brightness.**

#### Application for the deaf and hearing impaired

This application enables the operation of one or more blinking lights to warn persons with hearing impairments instead of an acoustic signal. A transmitter (E2BPP for example) must be connected to the doorbell button. To download the application sheet, visit [www.yokis.com](http://www.yokis.com)

### CONFIGURATION TABLE

**! Before setting any configuration, unlock the module with 23 short touches on the button. It locks automatically after 6 hours.**

**Configuration principle:** SHORT consecutive TOUCHES of the button (maximum interval of 0.8 s) CONFIRMATION reply with blinking after touches.

Touches	Duration	Replies	Touches	Duration	Replies
11	2 minutes	1 blink	22	Blinking mode	2 blinks
12	4 minutes	2 blinks	23	Unlocking	3 blinks
13	8 minutes	3 blinks	24	ON/OFF notification	4 blinks
14	15 minutes	4 blinks	25	Duration in seconds	5 blinks
15	30 minutes	5 blinks	26	Duration in minutes	6 blinks
16	60 minutes (1 hour)	6 blinks	27	Minimum brightness setting	7 blinks
17	120 minutes (2 hours)	7 blinks	28	Minimum brightness	8 blinks
18	240 minutes (4 hours)	8 blinks	29	100% mode or memory upon first touch	9 blinks
19	Unlimited timing	9 blinks	30	Full reset to default values	2 blinks
20	Relay mode	10 blinks	35	Status is saved in case of power failure	5 blinks

**Configuration in seconds**  
All durations set in minutes can be changed into seconds with **25 short touches** (reply: 5 flashes).  
**It is possible to switch back to minutes** with 26 short touches (reply: 6 flashes).

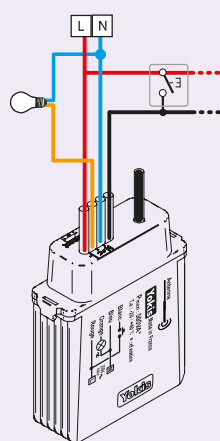
**Example:**  
Configuration of a 15-second duration:  
1 - 25 touches (reply: 5 blinks) to select the seconds.  
2 - 14 touches (reply: 4 blinks) to set a 15-second duration.

# WIRING DIAGRAMS

## RADIO TIMED DIMMER WITH NEUTRAL OPERATION

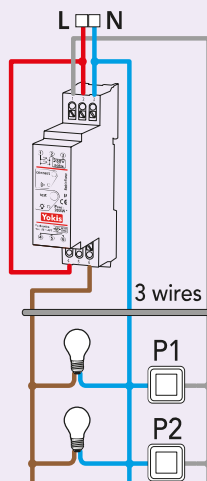
### SD 019 WIRING PRINCIPLE

Version for recessed installation



### SD 020 WIRING PRINCIPLE

DIN rail version



- ▶ Works with radio and wired controls
- ▶ Compatible with all dimmable loads, up to 500 W (MTV500ERP) or up to 300 W (MTV300MRP).
- ▶ Variable LED max 250VA (MTV500ERP) or 150VA (MTV300MRP).



### SD542 6052 USE OF ENERGY SAVING BULBS (CFL) OR LED BULBS WITH MTV500ERP

