



Zakład Mechaniki i Elektroniki  
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## DESCRIPTION

The DIP-01, DIP-02 dimmers are designed for incandescent lights intensity adjustment. It is possible to control light intensity by means of a single pole push button. If needed, it is possible to connect the push buttons in parallel. The devices are capable of switching ON and OFF the light, and fluent brightening up and dimming. The dimmers are designed for mounting in a junction box. By means of the dimmers it is possible to control lighting systems in a comfortable, convenient and economical way. Additionally, the DIP-02 model is capable of storing light intensity level.

## FEATURES

- ☞ Incandescent lights intensity control,
- ☞ Easy applicable together with any existing electrical system,
- ☞ Applicable together with single pole push buttons, illuminated,
- ☞ Maximum output power: 350 W,
- ☞ Model with the light intensity storage available (DIP-02),
- ☞ Device triggering by means of the L wire,
- ☞ Series connection with a light source,
- ☞ Casing designed for mounting in a junction box.



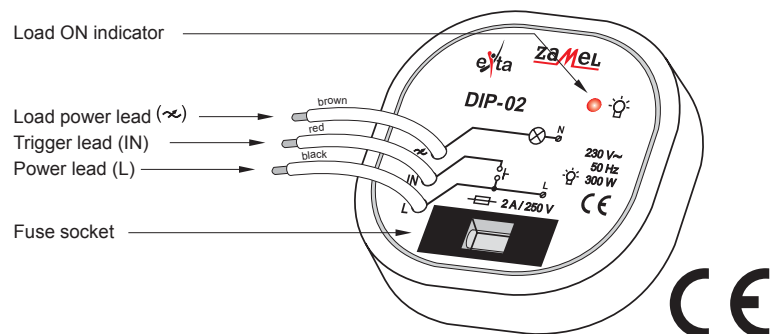
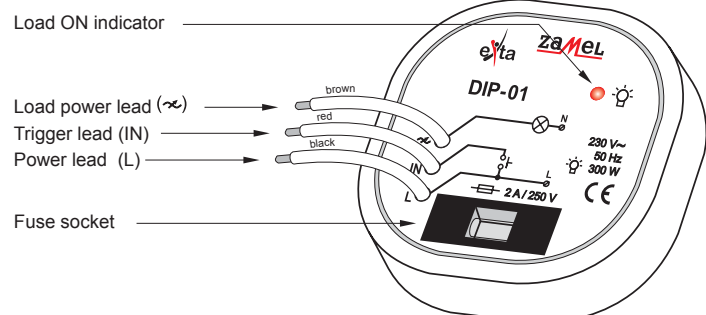
## CAUTION

The device should be connected to a single-phase system accordingly to current standards. The device connection will be described in this manual. Only qualified electricians are allowed to connect, assembly and adjust the timer. It is necessary to read this manual before the timer mounting. Do not disassembly the timer casing or you will lose any warranty rights and expose yourself to the electric shock hazard. Before mounting operation make sure of disconnecting the connection wires from the electric network. Use a cross-head screwdriver of 3.5 mm diameter to mount the device. The timer should be carried, stored and used in an appropriate way. Do not mount the timer in case of any device parts lack, damage or deformation. In case of malfunction please notify the manufacturer.

## TECHNICAL DATA

	DIP - 01	DIP - 02
Power terminals:	L(black), $\infty$ brown - in series with load	
Rated voltage:	230 V~	
Rated voltage tolerance:	-15 ÷ +10 %	
Rated frequency:	50 / 60 Hz	
Rated current:	10 mA	
Trigger terminals:	IN(red)	
Light intensity storage:	-	yes
Light control:	single pole push button	
Load supply indicator:	red LED	
Permissible load:	30 ÷ 300 W	
Fuse technical specification:	5 x 20 mm, ultra-fast, 2 A / 250 V	
Control:	triac	
Connection terminals quantity:	3	
Connection wire section:	1 mm <sup>2</sup>	
Operating temperature:	-20 ÷ +45 °C	
Operating position:	optional	
Casing fastening:	for 60 mm junction box	
Casing IP:	IP40 (PN-EN 60529)	
Protection class:	II	
Overvoltage category:	II	
Pollution level:	2	
Dimensions:	50 x 50 x 15 mm	
Weight:	28 g	
Standard conformity:	PN-EN 60669-1; PN-EN 60669-2-1 PN-EN 61000-4-2,3,4,5,6,11	

## APPEARANCE

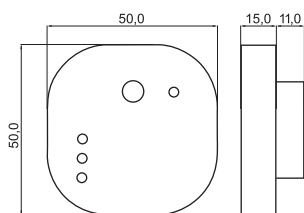


## ASSEMBLY, OPERATION

1. Disconnect the electric network by means of an appropriate cut-off, current-limiting circuit-breaker or separator.
2. Check if there is no any voltage between power leads by means of an appropriate gauge.
3. Mount the DIP-0X device in the 60 mm junction box.
4. Connect wires accordingly to the electrical diagram.
5. Connect power supply circuit.

The device is capable of controlling the light of up to 350 W. It is possible to adjust the light level by means of a single pole push button. If needed, it is possible to connect the push buttons in parallel and control the lights from various places. Short-pressing of the button (approximately 0.8 s) switches the light ON / OFF alternately. When the light is OFF, short-pressing of the button switches the light ON with maximum brightness or switches the light OFF completely from any brightness level. Holding the push button for a long time (>0.8 s) allows alternate fluent brightening up / dimming. Only the DIP-02 model is capable of storing the light intensity level.

## CASING DIMENSIONS



## PRODUCT FAMILY

The DIP-01, DIP-02 are member of the DIX products family.

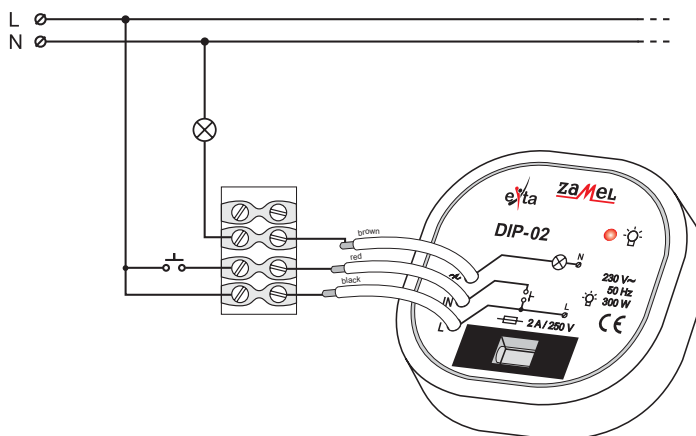
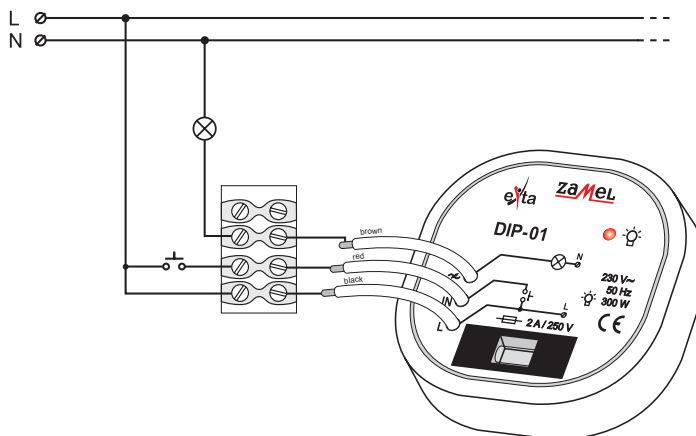
### DIX - xx

Device version:  
01 - series, basic  
02 - series with intensity storage  
10 - basic DIM-10 only

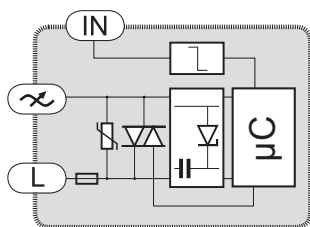
Casing type:  
M - double-module  
P - for junction box

Device type

## CONNECTIONS

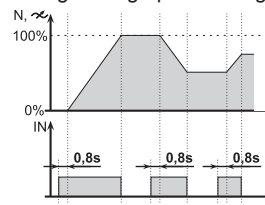


## UNIT DIAGRAM

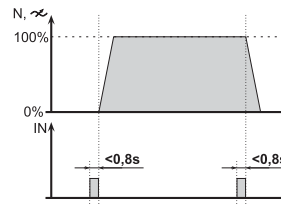


## TIME DIAGRAMS

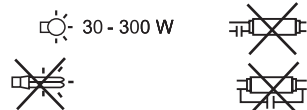
### brightening up / dimming



### ON / OFF



## LOAD



## WARRANTY

The product warranty is for a period of 24 months

1. ZMIE ZAMEL SP. J. assures 24 months guarantee for the product.
2. The manufacturer's guarantee does not cover any of the following actions:
  - a) mechanical damage during transport, loading / unloading or under other circumstances,
  - b) damage caused by incorrect product mounting or misuse,
  - c) damage caused by unauthorised modifications made by the PURCHASER or any third parties to the product or any other devices needed for the product functioning,
  - d) damage caused by Act of God or any other incidents independent of the manufacturer.
3. The PURCHASER shall lay any claims in writing to the dealer or ZMIE ZAMEL SP. J.
4. ZMIE ZAMEL SP. J. is liable for processing any claim according to current Polish legislation.
5. ZMIE ZAMEL SP. J. shall process the claim at its own discretion: product repair, replacement or money return.
6. The manufacturer's guarantee is valid in the Republic of Poland.
7. The PURCHASER's statutory rights in any applicable legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty.

Dealer signature & stamp, purchase date