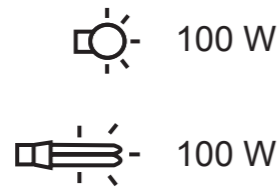## MOUNTING

1. Disconnect power supply by the phase fuse, the circuit-breaker or the switch-disconnector combined to the proper circuit.
2. **Check if there is no voltage on connection cables by means of a special measure equipment.**
3. Screw RWL-01 device into electric-light fitting.
4. Screw light source into RWL-01 socket.
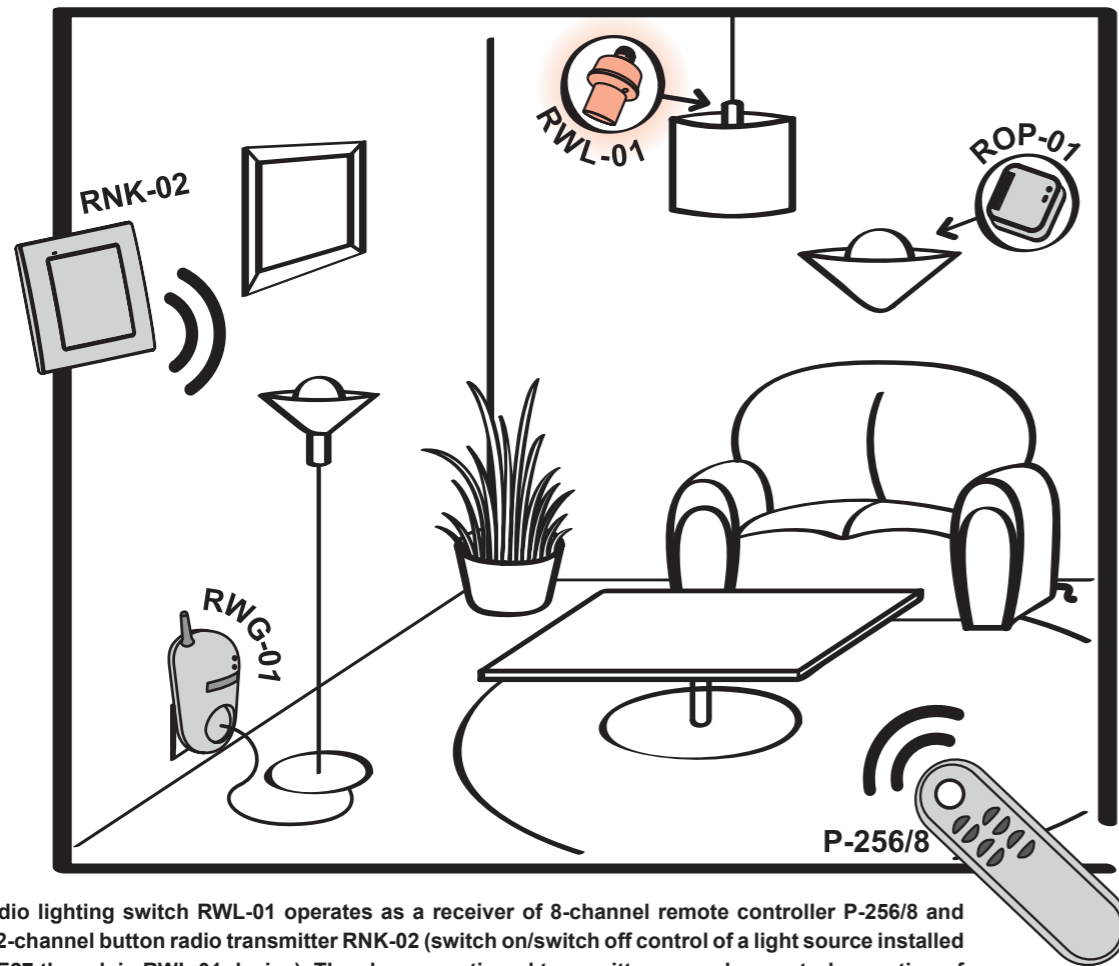5. Switch on the power supply from the mains.

CAPACITY

100 W

100 W

CAPACITY

SERIA F

The ZAMEL company devices which are characterised with this sign can cooperate with each other.

APPLICATION

RNK-02

RWL-01

ROP-01

RWG-01

P-256/8

Radio lighting switch RWL-01 operates as a receiver of 8-channel remote controller P-256/8 and of 2-channel button radio transmitter RNK-02 (switch on/switch off control of a light source installed in E27 thread in RWL-01 device). The above mentioned transmitters can also control operation of 1-channel flush receiver ROP-01 and of remote control socket RWG-01.

WARRANTY CARD

RADIO LIGHTING SWITCH RWL-01

exta free

ZAMEL Sp. z o.o.

ul. Zielona 27, 43-200 Pszczyna, Poland
tel. +48 (32) 210 46 65, fax +48 (32) 210 80 04
www.zamelcet.com, e-mail: marketing@zamel.pl

ZAMEL

DESCRIPTION

Radio lighting switch RWL-01 enables adaptation of any electric-light fitting with maximum 100W light source (E27 thread) to wireless control in the range of EXTA FREE system. By placing RWL-01 in electric-light fittings without the help of any additional tools, it is possible to control fittings by means of radio transmitters. The switch can be used with low current consumption devices, e.g. energy-saving lighting as it uses only 0,29W.

FEATURES

- cooperation with wireless EXTA FREE control system transmitters,
- light source radio control directly in electric-light fitting,
- light source: maximum100W (light bulbs, compact fluorescent lamps),
- 5 operation modes: switching on, switching off, monostable mode, bistable mode,
- time mode (switch off delay),
- wide operation range (up to 200 m),
- operation is optically signalled,
- possibility of increasing operation range by means of RTN-01 retransmitter.

TECHNICAL DATA

RWL-01	
Input rated voltage:	230 V AC
Input voltage tolerance:	-15 ÷ +10 %
Nominal frequency:	50 / 60 Hz
Nominal power consumption:	0,29 W
Number of operation modes:	5
Number of channels:	1
Transmission:	radio 868,32 MHz
Transmission way:	unidirectional
Coding:	addressing transmission
Maximum number of transmitters:	32
Range:	up to 200 m in the open air
Time adjustment:	1 second ÷ 18 hours (every 1 sec.)
Optical signalling of transmitter's operation:	LED red diode
Maximum light source:	100 W
Ambient temperature range:	-10 ÷ +55 ℃
Operating position:	free
Casing mounting:	electric-light fitting
Casing protection degree:	IP20 (PN-EN 60529)
Protection level:	II
Overvoltage category:	II
Pollution degree:	2
Surge voltage:	1 kV (PN-EN 61000-4-5)
Dimensions:	Ø 62,5 x 103 mm
Weight:	0,099 kg
Reference standard:	PN-EN 60669, PN-EN 60950, PN-EN 61000

APPEARANCE

E27 lighting socket

Optical signalling of receiver's operation

Programming buttons

E27 thread power supply

CAUTION

The device is designed for single-phase installation and must be installed in accordance with standards valid in a particular country. The device should be connected according to the details included in this operating manual. Installation, connection and control should be carried out by a qualified electrician staff, who act in accordance with the service manual and the device functions. Disassembling of the device is equal with a loss of guarantee and can cause electric shock. Before installation make sure the connection cables are not under voltage. The cruciform head screwdriver 3,5 mm should be used to install the device. Improper transport, storage, and use of the device influence its wrong functioning. It is not advisable to instal the device in the following cases: if any device part is missing or the device is damaged or deformed. In case of improper functioning of the device contact the producer.
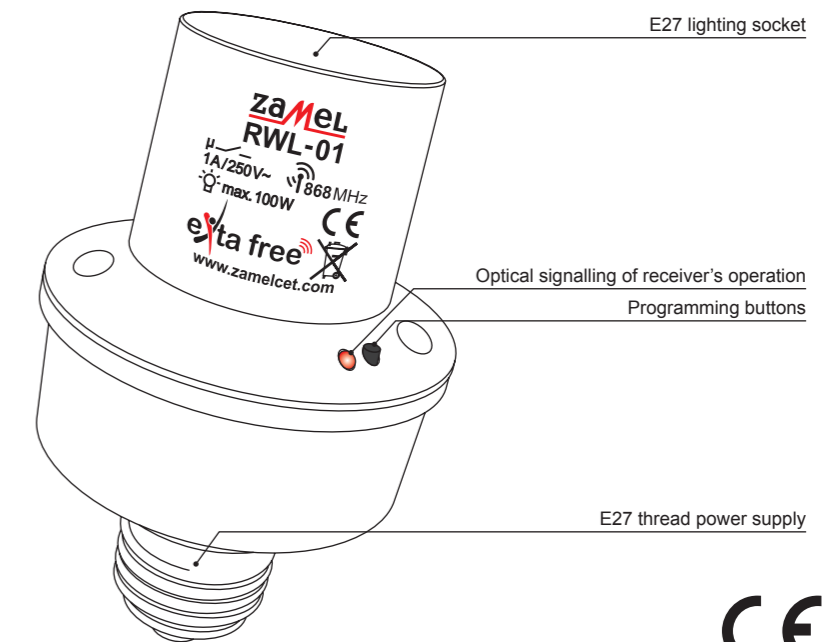
The symbol means selective collecting of electrical and electronic equipment. It is forbidden to put the used equipment together with other waste.

CE

OPERATION

The device can operate in five modes:

MONOSTABLE
the relay operates only while pressing transmitter's push-button.

BISTABLE
(one push-button) the device changes relay status cyclically always after pressing the same push-button.

SWITCH ON
the device switches on after pressing the push-button.

SWITCH OFF
the device switches off after pressing the push-button.

TIME
the device switches off according to the adjusted time (tp), but it may be switched off before adjusted time finishes. Default settings - 15 seconds.

CAUTION! Adjusted time can not be deleted.

RADIO TRANSMITTERS PROGRAMMING

MONOSTABLE mode:

❶ Press transmitter's push-button for a longer time.

❷ Press PROG push-button of RWL-01 device for a longer time until LED red diode switches on (constant signal). Next release PROG push-button.

❸ Release transmitter's push-button. LED red diode switches on (first signal pulsates, next the signal is constant).

❺ Press the same transmitter's push-button and release it. LED red diode switches on (the signal pulsates) and next the signal switches off - THE TRANSMITTER IS ADDED.

BISTABLE mode:

❶ ❷ Press PROG push-button of RWL-01 device for a longer time until LED red diode switches on (constant signal). Next release PROG push-button.

❸ Press the transmitter's push-button for a longer time. LED red diode switches on (first signal pulsates, next the signal is constant).

❹ Release transmitter's push-button. LED red diode switches on (the signal pulsates), next the LED red diode switches off - it means the TRANSMITTER IS ADDED.

SWITCH ON/SWITCH OFF mode (two push-buttons):

❶ ❷ Press PROG push-button of RWL-01 device for a longer time until LED red diode switches on (constant signal). Next release PROG push-button.

❸ Press and release transmitter's push-button. LED red diode switches on (first signal pulsates, next the signal is constant).

❹ Press and release the second transmitter's push-button. LED red diode switches on (the signal pulsates) and next it switches off - THE TRANSMITTER IS ADDED.

TIME MODE (one push-button):

❶ ❷ Press PROG push-button of RWL-01 device for a longer time till LED red diode switches on (constant signal). Next release PROG push-button.

❸ Press and release transmitter's push-button. LED red diode switches on (the signal pulsates, next the signal is constant).

❹ Press and release the same transmitter's push-button. LED red diode switches on (the signal pulsates) and next it switches off - THE TRANSMITTER IS ADDED.

An exemplary programming procedure with the use of P-257/2 remote controller. The procedure for the rest of radio EXTA FREE transmitters is analogous.

CAUTION: Every transmitter can cooperate with RWL-01 in a different mode, depending on how they were added to the device. One transmitter can be added during one programming cycle. Full memory is signalled with pulsating LED red diode.

TIME PROGRAMMING

❶ ❷ Press PROG push-button of RWL-01 device for a longer time till LED red diode switches on (constant signal). Next release PROG push-button. Wait (for about 5 seconds) till LED red diode switches on (first signal pulsates, next the signal is constant).

❸ Press PROG push-button of RWL-01 device and then release it. LED red diode switches off and then switches on (signal pulsates). Every LED diode pulse equals 1 second.

❹ After the adjusted time is finished (the number of LED red diode flashes) press PROG push-button and then release it - TIME IS ADDED.

Maximum time is 18 hours for every channel.

RADIO TRANSMITTERS DELETION

❶ Press PROG push-button of RWL-01 device for a longer time.

❷ After 5 seconds LED red diode switches on (signal pulsates) and then it switches off.

❸ Release the push-button in RWL-01 - MEMORY IS DELETED

COOPERATION AND OPERATION RANGE

Symbol	ROP-01	ROP-02	ROB-01	SRP-02	SRP-03	RWG-01	RWL-01	ROM-01	ROM-10	RDP-01	RTN-01
RNK-02	180 m	200 m	200 m	200 m	200 m	250 m	180 m	250 m	250 m	180 m	250 m
RNK-04	180 m	200 m	200 m	200 m	200 m	250 m	180 m	250 m	250 m	180 m	250 m
P-256/8	230 m	250 m	250 m	250 m	250 m	300 m	200 m	300 m	300 m	230 m	300 m
P-257/4 (2)	180 m	200 m	200 m	200 m	200 m	250 m	180 m	250 m	250 m	180 m	250 m
RNM-10	230 m	250 m	250 m	250 m	250 m	300 m	200 m	300 m	300 m	230 m	300 m
RNP-01	160 m	180 m	180 m	180 m	180 m	200 m	160 m	200 m	200 m	160 m	200 m
RNP-02	160 m	180 m	180 m	180 m	180 m	200 m	160 m	200 m	200 m	160 m	200 m
RNL-01	160 m	180 m	180 m	lack*	lack*	200 m	160 m	200 m	200 m	160 m	200 m
RTN-01	200 m	200 m	200 m	200 m	200 m	250 m	200 m	250 m	250 m	200 m	250 m
RCR-01	160 m	180 m	180 m	lack*	lack*	200 m	160 m	200 m	200 m	160 m	200 m
RTI-01	160 m	180 m	180 m	180 m	180 m	200 m	160 m	200 m	200 m	160 m	200 m
RXM-01	230 m	250 m	250 m	250 m	250 m	300 m	200 m	300 m	300 m	230 m	300 m

* - 1-channel transmitters do not cooperate with roller blinds controllers.

CAUTION: The given range concerns open area - an ideal condition without any natural or artificial obstacles. If there are some obstacles between a transmitter and a receiver, it is advisable to decrease the range according to: wood and plaster - from 5 to 20, bricks - from 10 to 40 %, reinforced concrete - from 40 to 80 %, metal - from 90 to 100%, glass - from 10 to 20 %. Over- and underground medium and high electrical power lines, radio and television transmitters, GSM transmitters set close to a device system have also a negative influence on the range.

TRANSMITTERS

RNK-02 2–channel button radio transmitter

RNK-04 4-channel button radio transmitter

P-256/8 8-channel remote controller

P-257/4 4-channel remote controller

P-257/2 2-channel remote controller

RCR-01 Radio motion sensor

RNL-01 Radio foot transmitter

RTI-01 IR/EXTA FREE transceiver

RNM-10 4-channel radio modular transmitter

RNP-01 4-channel radio transmitter

RNP-02 4-channel radio transmitter

RXM-01 Translator RS-485/EXTA FREE

RECEIVERS

ROP-01 1-channel radio receiver

ROP-02 2-channel radio receiver

RDP-01 1-channel radio dimmer

ROB-01/12-24V Radio gate controller

ROM-01 1-channel radio modular receiver

RWL-01 Radio lighting switch

RWG-01 Remote control socket

SRP-02 Radio roller blinds controller

SRP-03 Central radio roller blinds controller

ROM-10 2-channel radio modular receiver

ACCESSORIES

ANT-01 External antenna

RTN-01 Retransmitter

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