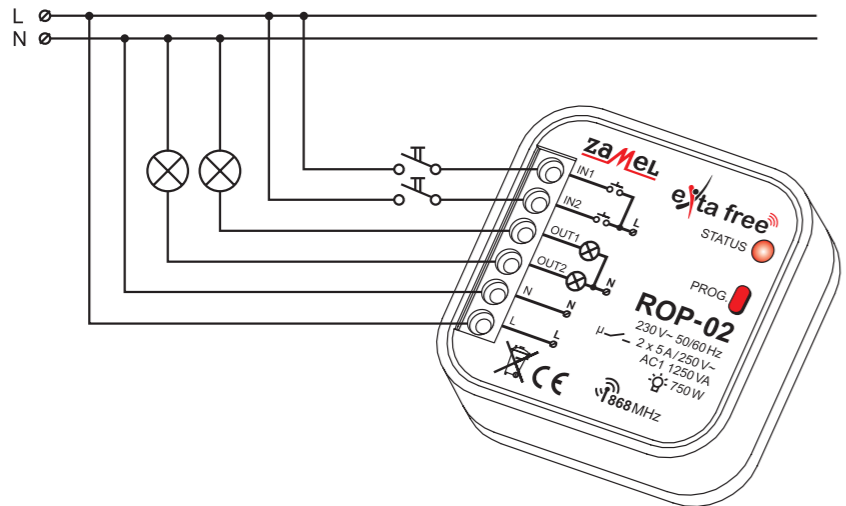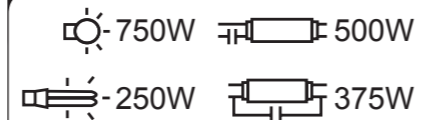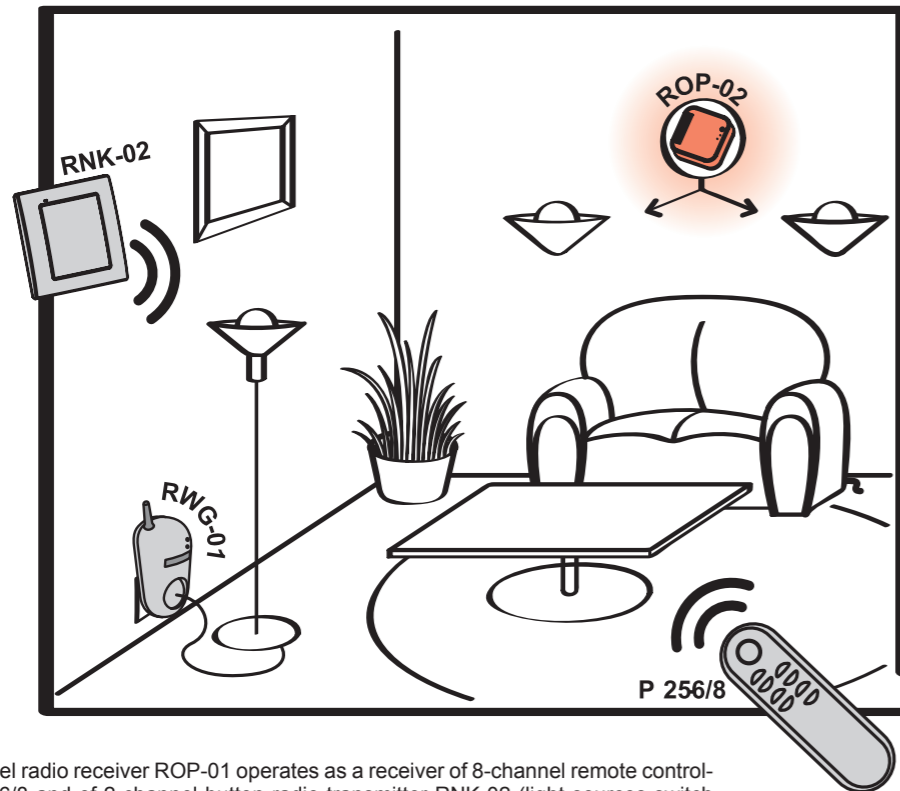## CONNECTION

L
N

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. Connect the cables with the terminals in accordance with the installing diagram.
4. Install ROP-02 device in installation cable box.
5. Switch on the power supply from the mains.

CAPACITY

- 750W
- 500W
- 250W
- 375W

APPLICATION

ROP-02
RNK-02
RWG-01
P 256/8

SERIA
F

2-channel radio receiver ROP-01 operates as a receiver of 8-channel remote controller P-256/8 and of 2-channel button radio transmitter RNK-02 (light sources switch on/switch off control). The above mentioned transmitters can also control operation of remote control socket RWG-01.

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

WARRANTY CARD

2-CHANNEL RADIO RECEIVER ROP-02 MANUAL INSTRUCTION

exta free

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zameL

DESCRIPTION

Radio receivers are used both as elements in mounting in flush and surface installation cable boxes and as an actuator built directly in lighting fittings and other receivers. ROP-02 enables operation in 5 different modes (switching on, switching off, monostable mode, bistable mode, time mode).

FEATURES

- cooperation with wireless EXTA FREE control system transmitters,
- 2 output relays (voltage contacts 230V AC),
- lighting, heating etc. operation control,
- easy junction box Ø 60 mm installation,
- 5 operation modes: switching on, switching off, monostable mode, bistable mode, time mode (switch off delay),
- wide operation range (up to 230 m),
- operation is optically signalled,
- low current consumption, possibility of constant operation,
- possibility of increasing operation range by means of RTN-01 retransmitter.

TECHNICAL DATA

ROP-02	
Input (supply) terminals:	L, N
Input rated voltage:	230 V AC
Input voltage tolerance:	-15 ÷ +10 %
Nominal frequency:	50 / 60 Hz
Nominal power consumption:	0,39 W „stand-by" mode/ 0,69 W operation mode 1 channel/ 1,09 W operation mode 2 channels/
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 250 m in the open area
Time adjustment:	1 second ÷ 18 hours (every 1 sec.)
Optical signalling of transmitter's operation:	LED red diode
Input terminals:	IN1, IN2
Transmitter's input (supply) terminals:	OUT1, OUT2 - voltage output
Relay contact parameters:	2NO 5A / 250V AC AC1 1250 VA (voltage contact)
Number of terminal clamps:	6
Section of connecting cables:	up to 2,5 mm²
Ambient temperature range:	-10 ÷ +55 °C
Operating position:	free
Casing mounting:	easy junction box Ø 60 mm installation
Casing protection degree:	IP20 (EN 60529)
Protection level:	II
Overvoltage category:	II
Pollution degree:	2
Surge voltage:	1 kV (EN 61000-4-5)
Dimensions:	47,5 x 47,5 x 20 mm
Weight:	0,039 kg
Reference standard:	EN 60669, EN 60950, EN 61000

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 instal 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.
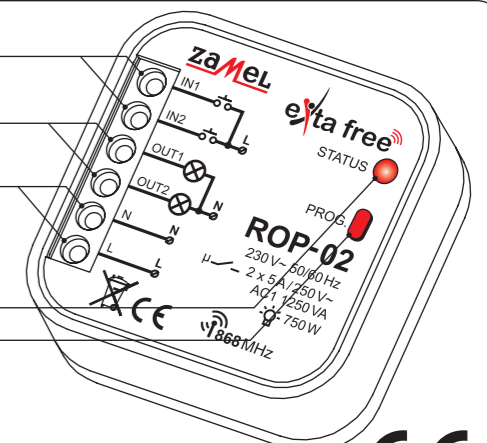
APPEARANCE

Input terminals (IN1, IN2)
Output terminals (OUT1, OUT2)
Input (supply) terminals (L, N)
Optical signalling of receiver's operation
Programming buttons

ROP-02

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 POGRAMMING - CHANNEL 1

MONOSTABLE mode:

① Press transmitter's push-button for a longer time.

② Press PROG push-button of ROP-02 device for a longer time until LED red diode switches on (constant signal). Next release PROG push-button.

④ Release transmitter's push-button. LED red diode switches on (first signal pulsates, next the signal is constant).

⑤ 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:

① Press PROG push-button of ROP-02 device for a longer time until LED red diode switches on (constant signal). Next release PROG push-button.

③ Press the transmitter's push-button for a longer time. LED red diode switches on (first signal pulsates, next the signal is constant).

④ 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):

① Press PROG push-button of ROP-02 device for a longer time until LED red diode switches on (constant signal). Next release PROG push-button.

③ Press and release transmitter's push-button. LED red diode switches on (first signal pulsates, next the signal is constant).

④ 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):

① Press PROG push-button of ROP-02 device for a longer time till LED red diode switches on (constant signal). Next release PROG push-button.

③ Press and release transmitter's push-button. LED red diode switches on (the signal pulsates, next the signal is constant).

④ 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 ROP-02 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.

RADIO TRANSMITTERS POGRAMMING - CHANNEL 2

① Press PROG push-button of ROP-02 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).

③ Choose one out of five ROP-02 operating modes and programme the device in the same way as for channel 1.

CAUTION: For the monostable mode, press the button on the remote before pressing PROG push-button.

TIME PROGRAMMING

① Press PROG push-button of ROP-02 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).

③ Wait again (for about 5 seconds) till LED red diode switches on (first signal pulsates, next the signal is constant).

for CHANNEL 1

④ Press PROG push-button of ROP-02 device and then release it. LED red diode switches off and then switches on (signal pulsates). Every LED diode pulse equals 1 second.

⑤ After the adjusted time is finished (the number of LED red diode flashes) press PROG push-button and then release it - TIME IS ADDED.

for CHANNEL 2

④ Wait again (for about 5 seconds) till LED red diode switches on (first signal pulsates, next the signal is constant).

⑤ Press PROG push-button of ROP-02 device and then release it. LED red diode switches off and then switches on (signal pulsates). Every LED diode pulse equals 1 second.

⑥ 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

① Press PROG push-button of ROP-02 device for a longer time.

② After 5 seconds LED red diode switches on (signal pulsates) and then it switches off.

Release the push-button in ROP-02 - 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.

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