

manual  
inside

# zameL

ZAMEL Sp. z o.o.  
43-200 Pszczyzna, ul. Zielona 27  
tel.: +48 32 210 46 65; fax: +48 32 210 80 04  
e-mail: marketing@zamel.pl  
www.zamel.com

## 2-CHANNEL RADIO FLUSH RECEIVER ROP-22

Radio flush receiver ROP-22 is the final element of the EXTA LIFE system, which allows for an independent control of two devices / 230 V AC circuits. It is especially dedicated to control lighting fittings equipped with incandescent and halogen lamps, LEDs and CFL lamps. Current mode of the device controlled by ROP-22 is shown in a mobile application. The above has been achieved due to a two-way communication between a receiver and a controller.

230 V AC; IP20  
Net weight: 0.04 kg  
ETSI EN 300 220-1  
ETSI EN 300 220-2

CE 1471



The symbol means selective collecting of electrical and electronic equipment. It is forbidden to put the used equipment together with other waste.

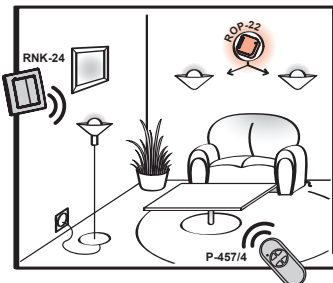
SCAN



the technical  
data



- compatible with a controller and EXTA LIFE system transmitters,
- 2 output channels (voltage outputs),
- two-way transmission – current output mode indication in the application,
- 2 programmable external inputs,
- connection possibility of monostable or bistable switches,
- 4 operation modes in cooperation with transmitters
- - 2 operation modes in cooperation with a controller,
- possibility of remote software update



ZAMEL Sp. z o.o. declares that the device complies with principal requirements and other applicable rules of the 2014/53/UE Directive.

Registered design © ZAMEL

Made in Poland



## zameL



- easy installation in Ø60 mm junction box
- cooperates with EXTA LIFE system devices
- operation range: up to 300 m in the open area

2-CHANNEL  
RADIO  
FLUSH RECEIVER  
ROP-22

SMART HOME

exta life

## 2-CHANNEL RADIO FLUSH RECEIVER

### ROP-22

#### TECHNICAL DATA

Nominal supply voltage:	230 VAC
Nominal frequency: 50/60 Hz	50 / 60 Hz
Nominal power consumption:	0,45 W – standby 0,8 W – one channel operation 1,2 W – two channel operation
Transmission:	radio – ISM band 868 MHz
Transmission way:	two-way - 9600 bps
Coding:	algorithm based on 128-bit key
Operating range:	up to 330 m in the open area
Optical signalling (transmission / programming):	yes – RGB LED
Number of paired buttons:	maximum 96 pairs
Current receiver's mode information:	yes – in the EXTA LIFE mobile application
Operating modes in cooperation with EXTA LIFE system transmitters:	switch on /switch off, bistable, monostable, time
Operating modes in cooperation with EXTA LIFE controller:	switching on, switching off, time
Number of external inputs:	2
Cooperation with push-buttons*:	monostable (push-buttons), bistable
Operating modes for external inputs**:	switching on, switching off, bistable, monostable, time
Time adjustment range:	1 sec. + 18 hrs.
Number of output channels:	1
Relay contact parameters:	2 x NO 5A / 250 VAC (voltage output)
Maximum output load:	incandescent and halogen lighting sources – 750 W LEDs – 60 W CFL lamps – 250 W
Number of terminal clamps:	6 (wires with cross-section up to 2,5 mm <sup>2</sup> )
Casing mounting:	Ø60 mm junction box
Operating temperature range:	-10 do +55 °C
Protection degree:	IP20
Protection class:	II
Dimensions:	47,5 x 47,5 x 20 mm
Weight:	0,04 kg
Reference standards:	EN 60689, EN 60950, EN 61000 ETSI EN 300 220-1, ETSI EN 300 220-2

\* switch type configured by means of the EXTA LIFE mobile application

\*\* operating mode dependent on selected switch type

#### MOUNTING

- The ROP-22 receiver is designed to be mounted in a junction box. Its dimensions enable flush (Ø60 minimum) and surface mounting. In case of a flush junction box, a deepened box is recommended, as it makes mounting easy with a large number of wiring and a big cross-section of connection wires.
- 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 manual instruction. 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. For safety reasons, do not mount the device without casing or with a damaged one, as an electric shock may occur.
- After power supply has been applied, the receiver will carry out service activities for about 5 seconds (it is signalled by a green STATUS LED, it will flash at an interval of 1 second). During this time the receiver's control is not possible.

**CAUTION: Before installation make sure the connection cables are not under voltage.**

#### INSTALLATION:

- Disconnect power supply by the phase fuse, the circuit-breaker or the switch-disconnector combined to the proper circuit.
- Check if there is no voltage on the connection cables by means of a special measuring equipment.
- Connect the device cables with the terminals in accordance with the installing diagram.
- Install ROP-22 in a junction box.
- Switch on the power supply from the mains.

#### MOUNTING REMARKS

- Do not mount receivers in a close proximity to each other (if there is a possibility, keep a distance of minimum 15 cm between receivers). Particularly, avoid installation of one receiver over the another.
- The maximum output load must be obeyed:
  - incandescent and halogen lamps: 750 W / channel,
  - fluorescent CFL lamps: 250 W / channel,
  - dimable LEDs: 60 W / channel.
- During mounting, make sure the receiver is not exposed to direct water and operation in an increased humidity environment. The mounting ambient temperature range should be within the range from -10 to + 55 °C.
- The ROP-22 receiver is designed to be mounted indoor. In case the receiver is mounted outdoor, it must be placed in an additional hermetic casing.
- Wired control switches can be connected to the IN1 and IN2 inputs of ROP-22 receiver. By default, the inputs are adapted to cooperate with monostable push-buttons in a bistable mode. It means that each subsequent impulse given to the IN1 or IN2 input causes the output mode is changed to an opposite mode.
- After a receiver has been installed, it is important to check, if it operates correctly. In case of control by means of the EXTA LIFE system transmitters, they must be first programmed with a receiver (see Programming transmitters). In case of cooperation with a controller, a correct pairing of a receiver with a controller is required (see Register of receivers in the EXTA LIFE system).

**CAUTION: Input functionality (switch type, operation mode) can be changed by means of the EXTA LIFE mobile application. It is necessary to install a controller in the system and pair it with ROP-22 receiver – see Input functionality.**