

LOAD CAPACITY:



#### INSTALLATION

ATTENTIONI The connection of the power supply to a single-phase network must be made in accordance with the applicable standards. Activities related to installation, connection and adjustment should be performed by qualified electricians who are familiar with the manual and functions of the device.

- Disconnect the power circuit with the fuse, circuit breaker, or switch disconnector connected to the appropriate circuit.
- 2. Use a suitable instrument to check the voltage-free condition of the power cables.
- 3. Connect the power supply to the 230 V AC installation.
- 4. Connect the cables to the appropriate terminals of the receiver in accordance with the connection diagram n.
- 5. Install the receiver in the Ø60 installation box.
- 6. Switch on the power circuit.
- Assign selected transmitters to the receiver (description in the TRANSMITTERS PROGRAMMING tab) and check if they work properly.



ATTENTIONI The given range of operation applies to open space, i.e. ideal conditions, without obstacles. If there are obstacles between the transmitter and the receiver, the operating range should be reduced for: brick from 10 to 40%, wood and plaster from 5 to 20%, reinforced concrete from 40 to 80%, metal from 90 to 100%, glass from 10 to 20%. High-power overhead and underground power lines and mobile telephony transmitters located in close proximity to devices also have a negative impact on the operating range. file: ROP-05\_book\_p1 | modification: 27/06/2013 In-wall radio receiver

#### TECHNICAL DATA

Nominal supply voltage:	10 ÷ 14 V DC
Rated Power Consumption:	0.7 watts
Number of channels:	2
Maximum channel load:	5 A / 250 V AC
Relay contact:	2xNO 5 A / 250 V AC1 1250 VA
Programs:	Switch on / off, Monostable, Bistable, Timed
Control:	EXTA FREE system transmitters
Transmission:	Radio 868.32 MHz
Transmission method:	One-way without confirmations
Coding:	Yes - transmission with addressing
Maximum number of transmitters:	32
Reception:	Up to 230 m outdoors
Time setting:	1 s ÷ 18 h
Working temperature:	-10 ÷ +55 o C
Installation:	Can Ø60
Housing protection class:	IP20
Protection class:	III
Dimensions:	47.5 x 47.5 x 20 mm
Libra:	36 g
Compliance with standards:	PN-EN 60669; PN-EN 60950; PN-EN 61000

#### DESCRIPTION

The ROP-05 receiver is mainly intended for the implementation of simple control functions in low-voltage 10 ÷ 14 V DC installations. This device in combination with any wireless EXTA FREE system transmitter (www.extafree.pl) enables the implementation of the on / off functions, monostable, bistable and time mode. The receiver is recommended for use in LED lighting control systems. The ROP-05 has two potential-free NO type relay outputs with a maximum load capacity of 5 Å for 250 V AC. The small dimensions of the housing enable the direct installation of the receiver in a Ø60 mm box. The product belongs to the ECOLINE group and is characterized by low power consumption. Features of the driver are:

· implementation of control functions in low-voltage installations, including LED lighting

· two output relays (voltage-free contacts)

- · a multitude of operating modes: on / off, monostable, bistable, time
- · large operating range (up to 230 m in open area)
- possibility of increasing the range by using the RTN-01 retransmitter
- · optical signaling of operation

low power consumption on standby (0.15 W) - device designed for continuous operation.

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### OPERATION

The device can work in five modes for each channel:



### PROGRAMMING OF RADIO TRANSMITTERS - CHANNEL 1

NOTE: Each transmitter can cooperate with ROP-05 in a different operating mode, depending on how they were added to the device. One transmitter can be written to the device during one programming cycle. The status of the full memory of the transmitters is indicated by the flashing of the red LED during the attempts to program subsequent transmitters.

#### MONOSTABLE mode :

Press and hold the transmitter button. Press PROGQush-button of ROP-05 device for a longer time until LED red diode switches on (constant signal). Then release the PROG button. Release the transmitter button. The red LED diode will light up (pulsating signal followed by a continuous signal). Press the same button on the transmitter, then release tte button. The LED diode will light up (pulsating signal) and then it will turn off - TRANSMITTER ENROLLED.

#### BISTABLE mode :

Press PROG push-button of ROP-05 device for a longer time until LED red diode switches on (constant signal). Then release the PROG button. Press and hold the transmitter button. The ded LED diode will light up (pulsating signal) followed by a continuous signal). Release the transmitter button. The LED diode will light up (pulsating signal) and then it will turn of - TRANSMITTER ENROLLED.

#### ON / OFF mode (two buttons):

Press PROG push-button of ROP-05 device for a longer time until LED red diode switches on (constant signal). Then release the PROG button. Press and then release the first button the transmitter. The red LED diode will light up (pulsating signal followed by a continuous signal).

Press and then release the second button on the transmitter. Led lights up (pulsating signal) and then goes out - TRANSMITTER ENROLLED. TIME mode (one button):

Press PROG push-button of ROP-05 device for a longer time until LED red diode switches on (constant signal). Then release the PROG button. Press and then release the transmitter @utton. The red LED diode will light up (pulsating signal followed by a continuous signal). Press and then release the same transmitter button. The @D diode will light up (pulsating signal) and then it will turn off - TRANSMITTER ENROLLED.

# PROGRAMMING OF RADIO TRANSMITTERS - CHANNEL 2

Press PROG push-button of ROP-05 device for a longer time until LED red diode switches on (constant signal). Then release the PROG button. Wait (approx. 5 seconds) for the LED diode to switch on (pulsating signal followed by a continuous signal). Choose one of the five ROP-05 opera@g modes and program the device in the same way as for the channel 1.

NOTE: For monostable mode, press the remote control button before pressing the PROG button.

#### TIME PROGRAMMING for CHANNEL 1

Press PROG push-button of ROP-05 device for a longer time until LED red diode switches on (constant signal). Then release the PROG button. Wait (approx. 5 seconds) for the LED diode to switch on (pulsating signal followed by a continuous signal). Wait a second time (approx. 5 second) for the LED diode to switch on (pulsating signal followed by a continuous signal). Press PROG push-butto of ROP-05 device and then release it. The LED will turn off and then it will turn on (flashing signal). Each LED pulse represents 1 second. After the desired time has been counted down (the number of flashes of the red LED), press the PROG button and then release it. TIME SAVED.

#### for CHANNEL 2

Press PROG push-button of ROP-05 device for a longer time until LED red diode switches on (constant signal). Then release the PROG button. Wait (approx. 5 seconds) for the LED diode to switch on (pulsating signal followed by a continuous signal). Wait a second time (approx. 5 second) for the LED diode to switch on (pulsating signal followed by a continuous signal). Wait a third time (approx. 9 s) until the LED diode to diode switches on (pulsating signal, followed by a continuous signal). The release the LED diode to subton (pulsating signal, followed by a continuous signal). These PROG push-button of ROP-05 device and then release it. The LED will turn off and then it will turn on (flashing signal). Each LED pulse represents 1 second. After the descale the rate EAD, press the PROG button and then release it. The SAVED.

The maximum time is approximately 18 hours for each channel.

## DELETING TRANSMITTERS

• Press PROG push-button of RDP-02 device for a longer time. After app **1** x. 5 seconds, the red LED will light (pulsating signal) and then it will go out. Release the button **1** RDP-02 - MEMORY DELETED.

## APPLICATION

The application shows the way of using the ROP-05 radio receiver for cooperation with LEDIX luminaires. LEDIX TICO fittings are connected to the OUT1 output. A hermetic LED strip and a flexible LED strip are connected to the OUT2 output.

The OUT1 and OUT2 outputs are switched on / off from the level by a double normally open button cooperating with the RNP-02 in-can battery transmitter. At each of the outputs, you can implement a time

mode, thanks to which the lighting will turn off automatically after a preset time. Each output can be controlled independently.

