ledix

LED lighting fitting TIMO

with a radio receiver



A lighting fitting with a built-in radio receiver cooperating with transmitters of EXTA FREE system



Mounting indoor only



TIMO with a built-in radio receiver is a high quality LED fitting with decorative and application features. It is used for lighting corridors, passageways, for decorative lighting of furniture and lighting arrangement in the interior design. The features of the fitting:

- wireless control cooperation with chosen wireless transmitters of EXTA FREE
- realisation one out of three operation modes: switch on / switch off (ON/OFF), brightening/ dimming, time mode with dimming,
- · excellent lighting parameters obtained by applying the highest quality LED diodes
- · high quality and durability estimated to light continuously for five year.

CAUTION:

• Power supplies of ZNP and ZNN series and of ZNM series in 14 V DC version by Cet Lighting are used to supply the fittings.



Application:



stairs

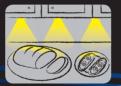


corridors, passageways

TRANSMITTERS COOPERATING WITH TIMO LIGHTING FITTING



RNP-01 RNP-02 RNM-10 RXM-01 RTI-01 RCR-01 Operation range from 40 to 50 m in the open area



furniture, decorative lighting

za/MeL cet

Cet Lighting Sp. z o.o. PL 43-200 Pszczyna, ul. Zielona 27, Poland tel: +48 32 449 15 00, fax: +48 32 449 15 02 e-mail: ledix@ledix.pl, www.ledix.pl

14 V DC: IP20 weight: 135 g

Cet Lighting Sp. z o.o. declares that the device is consistent with the essential requirements and other relevant provisions of the RTTE Directive.





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

07-214 ENG Ver. 01

za MeL cet

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14VDC ledix

TRANSMITTERS' DELETION



Press PROG push-button in the fitting for a longer time

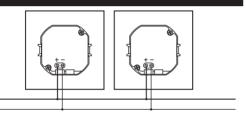


After 5 seconds STATUS LED red diode switches on and switches off



Release PROG push-button in the fitting - THE MEMORY IS DELETED

INSTALLATION EXAMPLE



ZNP, ZNN or ZNM power supply in 14 V DC version L ₀ N ₀230 V AC

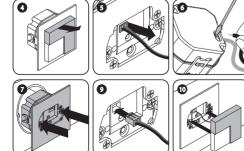
MOUNTING

The device is designed for single-phase installation and must be installed in accordance with standards valid in a particular country. 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.

Fitting is designed for mounting in Ø60 junction box.

14 V DC

- 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.
- Connect the 14 V DC power supply to 230 V AC.
- 4. Remove the fitting with the help of fingers hold the control module and gently pull away the fitting from the mounting
- 5. Disconnect the connecting cables between the fitting and the control module.
- 6. Connect the installation cables into the appropriate terminals of the control module in accordance with the selected connection diagram, maintaining the correct polarity.
- 7. Mount the control module in a Ø60 iunction box and tighten the screws.
- 8. Add a transmitter to a lighting fitting. A detailed description referring to these activities is in the operation mode programming section.
- 9. Connect the fitting cables with the module mounted in Ø60 junction
- 10. Mount the front of the fitting on the mounting element.
- 11. Switch on the power supply from the
- 12. Check if the fitting works properly.



TECHNICAL DATA Supply voltage 14 V DC 0.74 W - cold white 0,60 W – warm white Power consumption 0.46 W - red 0,46 W - green 0.46 W - blue cold white warm white Colour rendering index Ra 71 80 Colour temperature T_C [K] 5900 3100 Luminous flux Ø [lm] 20 14 Luminous efficiency [lm/W] 36 33





Protection degree suitable for indoor use only



The fitting cooperates with photovoltaic cells



The lighting fitting cooperates with chosen transmitters of EXTA FREE system



Built-in LED diode current const stabilization system

4xLED Light source - four LED diodes

COOPERATION WITH EXTA FREE TRANSMITTERS

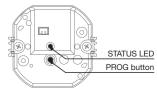
TIMO lighting fitting with a built-in radio receiver cooperates with chosen wireless transmitters of EXTA FREE system (www.extafree.pl). The operation range depends on the transmitter's type.

Transmitter's symbol	Mounting	Range* [m]	Operation modes
RNK-02	surface	50	
RNK-04		50	
RNP-01	flush	40	ON/OFF mode Brightening/dimming
RNP-02		40	
RNM-10	TH-35 rail	50	
RXM-01		50	
P-257/2	portable remote control	40	Time mode
P-257/4		40	
P-256/8		50	
RTI-01	surface	40	
RCR-01		40	ON/OFF mode

^{*} 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: bricks: 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%. 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.

OPERATION MODES

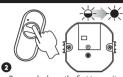
The operating mode is defined during transmitters' programming phase. The programming procedure is simply adding a specific transmitter to a selected LED fitting with a built-in radio receiver. Different functions can be assigned to each transmitter depending on how it is added to the lighting fitting, 32 transmitters of EXTA FREE system can be added to a single fitting. Full transmitters' memory is indicated by a pulsating STATUS LED red diode in the programming stage of subsequent transmitters.



ON/OFF MODE



Press PROG push-button in the fitting for a longer time until STATUS LED red diode switches on (constant signal)



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



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

ON / OFF mode is realised only on two different transmitter's push-buttons.

In this mode, the fitting is switched on by pressing the programmed push-button as (ON) and switched off by pressing by pressing the programmed push-button as (OFF).

BRIGHTENING/DIMMING MODE

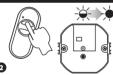
Brightening/dimming mode is realised only on two different transmitter's push-buttons.

In order to realise the brightening / dimming the transmitter should be programmed in ON / OFF mode (see above). Pressing the (ON) push-button for a longer time (> 3s) realises the brightening function to the maximum level. Pressing the (OFF) push-button for a longer time (> 3s) realises the dimming function to the minimum level.

TIME MODE



in the fitting for a longer time until STATUS LED red diode switches on (constant signal)



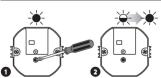
Press and release the transmitter's push-button. STATUS LED red diode switches on (first signal pulsates. next the signal is constant)

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

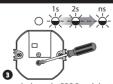
Time mode is realised only on one transmitter's push-buttons.

The fitting switches on by pressing the chosen transmitter's push-button and switches off automatically after the programmed time is over (from 1 s to 18 h) or by pressing the transmitter's push-button again. Switching off is carried out by smooth dimming for time t ~ 10 s. Each time the chosen transmitter's push-button is pressed during dimming causes the time is counted again (retrigable time). In time mode, brightening / dimming is realised by longer pressing the chosen push-button.

TIME PROGRAMMING



Press PROG push-button in the fitting for a longer time until STATUS LED red diode switches on (constant signal) Wait for about 5 seconds till STATUS LED diode switches on again (first signal pulsates, next the signal is constant)



Press and release the PROG push-button in the fitting. STATUS LED red diode switches off and next it switches on (the signal pulsates). Each STATUS diode pulse means 1 second. The maximum time is 18 hours



press the PROG push-button and then release it -TIME IS ADDED

COOPERATION WITH RCR-01 RADIO MOTION SENSOR

The fitting cooperates with RCR-01 radio motion sensor (www.extafree.pl). It includes two modes:

MODE 1 - only the motion sensor. Change the RCR-01 switch into "C" position.



Press NAUKA push-button of RCR-01, next release the push-button. LED red diode switches on under the lens (constant signal)



Press PROG push-button to adjust the fitting to the programming mode, STATUS LED red diode in the fitting switches on (constant signal)



Press NAUKA push-button of RCR-01 device and then release it. STATUS LED red diode in the fitting switches on (first signal pulsates, next the signal is constant)



Press NAUKA push-button of RCR-01 device and then release it. STATUS LED red diode in the fitting switches on (signal pulsates) - THE SENSOR IS ADDED. Wait until LED diode in RCR-01 device switches off

Additionally, in this mode, time programming should be done in the fitting. The time value should be adjusted to the minimum of 15 seconds. The cooperation between the motion sensor and the fitting is that while in the detection zone the sensor detects movement, it sends a signal every 10 seconds to the fitting. After the signal has been sent, time counting starts from the beginning.

CAUTION: Each time a push-button is pressed in the motion sensor there are 10 seconds to start the next step of the programming procedure. After this time, the sensor begins normal operation.

MODE 2 - motion sensor with a twilight switch. Change the RCR-01 switch into "F" position.



Press NAUKA push-button of RCR-01, next release the push-button. LED red diode switches on under the lens (constant signal)



Press NAUKA

in RCR-01

for a longer

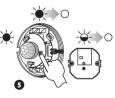
time

Press PROG push-button again push-button to adjust the fitting to the programming mode. STATUS LED red diode in the fitting switches on

(constant signal)

Release NAUKA push-button of RCR-01. STATUS LED red diode in the fitting switches on (first signal pulsates, next the signal

is constant)



Press NAUKA push-button of RCR-01, next release the push-button. STATUS LED red diode in the fitting switches on (signal pulsates) and switches off. THE SENSOR IS ADDED Wait until LED diode in RCR-01 switches off

The cooperation between the motion sensor and the fitting is that while in the detection zone the sensor detects movement, it sends a switch on signal to the fitting. The switch off signal is sent by the sensor after 20 seconds from the time of no motion in the detection zone.

CAUTION: Each time a push-button is pressed in the motion sensor there are 10 seconds to start the next step of the programming procedure. After this time, the sensor begins normal operation.