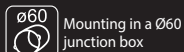


ledix



Wireless RGB controller SLR-11



Mounting in a $\varnothing 60$
junction box



Mounting
indoor only



Co-operation
with EXTA FREE
transmitters

SLR-11 controller is designed to control LED RGB diodes in the circuit with common “+” potential (RGB LEDIX series standard fittings, RGB strips and modules) supplied with $10 \div 14$ V DC. The control is carried out wireless in cooperation with selected EXTA FREE system transmitters or with dedicated P-260 remote control.

Characteristic features:

- 5 programmes: colour selection (to select 1 of 10 colours defined by the producer), brightening/dimming, fluent automatic colour change mode (FLOATING), step by step automatic colour change (STROBE) – *only for the P-260 remote control*, fluent colour selection (RAINBOW) – *only for P-260 remote control*,
- wireless control system (EXTA FREE transmitters and dedicated P260 remote control-remote control),
- 3 transistor outputs (MOSFET) with a maximum current capacity of 4 A per each output,
- 9-bits control system guarantees fluent colour change in FLOATING mode,
- wide operation range (up to 230 m in the open area),
- low power consumption in the standby mode – controller is designed for continuous operation.

zaMeL

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$10 \div 14$ V DC / 0,22 W; IP20

weight: 27 g



CET Lighting Sp. z o.o. declares that the equipment complies with the principal requirements and other applicable rules 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 waste.

Declaration of Conformity is on www.ledix.pl

SLR-11 ENG Ver. 01

zaMeL

$10 \div 14$ V DC

Wireless RGB controller

SLR-11

ledix

www.ledix.pl

DESCRIPTION

SLR-11 controller is designed for cooperation with LED standard lamps with RGB LEDIX series diodes and with other RGB products supplied with 10÷14 V DC (tapes, strips, modules and LED RGB lamps) in the circuit with common "+" potential. The control is carried out wireless in cooperation with selected EXTA FREE system transmitters or with a dedicated P-260 remote control. Depending on the transmitter the controller controls the functions: switching on/ switching off, fluent change of the illumination power, selection 1 of 10 colours with factory configuration, fluent colour selection and the programs for fluent automatic colour change (FLOATING) and step by step automatic colour change (STROBE). The controller features:

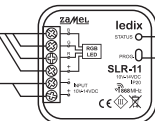
- wireless control system for LED RGB standard fittings of the LEDIX system,
- to carry out the functions as follows: switching on/ switching off, fluent change of the luminous flux intensity, selection 1 of 10 colours with a default setting, fluent colour selection,
- programme realisation: automatic colour change (FLOATING) and step by step colour change (STROBE).
- time for FLOATING and STROBE programmes is adjusted during 10 steps,
- cooperation with transmitters of the EXTA FREE wireless control system and with a dedicated P260 remote control,
- 9-bit fast PWM outputs allow the brightening/dimming function to be very fluent,
- low power consumption in the standby mode (0.25 W) – controller is designed for continuous operation.

APPEARANCE

Output terminals (RGB+)

for connection with RGB products

Power supply terminals (+, -)



Optic signaling of the controller's operation
Programming button

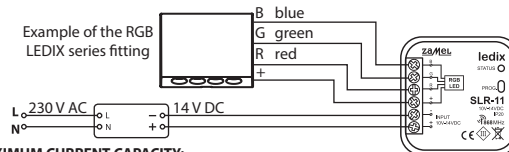
MOUNTING

CAUTION! 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.

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 power supply to 230 V AC.
4. Connect the cables to the appropriate control terminals in accordance with the connection diagram.
5. Mount the controller in the Ø60 junction box.
6. Switch on the power supply from the mains.
7. Add selected transmitters to the controller (a description is in TRANSMITTERS' PROGRAMMING section) and check their proper functioning.

DIAGRAM

CAUTION! Nominal output voltage of the power supply (10÷14 V DC) and its nominal output power must be adjusted for LED light source connected to the controller.



MAXIMUM CURRENT CAPACITY:

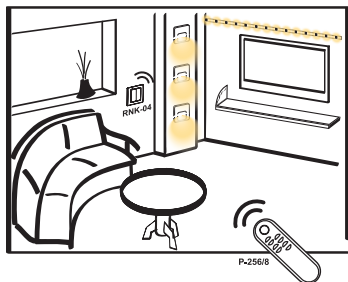
- Up to 25 W per channel for LED RGB products supplied with 10 V
- Up to 30 W per channel for LED RGB products supplied with 12 V
- Up to 35 W per channel for LED RGB products supplied with 14 V

TECHNICAL DATA

Nominal supply voltage:	10 ÷ 14 V DC
Nominal power consumption:	0,22 W
Number of channels:	3
Maximum current in the channel:	2,5 A
Controlling signal:	PWM 9-bit
Functions:	Switch on/ switch off Selection 1 of 10 colours with factory configuration Change of the luminous flux intensity Fluent colour selection – <i>only for the P-260 remote control</i>
Programs in operation:	Fluent automatic colour change (FLOATING) Step by step automatic colour change (STROBE) – <i>only for the P-260 remote control</i>
Steps (FLOATING and STROBE)	10 (to 50 min.)
Control:	Selected EXTA FREE* system or P-260 transmitters
Radio transmission:	868,32 MHz
Transmission method:	One-way without confirmation
Coding:	Yes – transmission with addressing
Maximum number of transmitters:	32
Range:	Up to 230 m in the open area
Ambient temperature range:	-10 ÷ +55 °C
Casing protection degree:	IP20
Protection class:	III
Dimensions:	47,5 x 47,5 x 20 mm
Weight:	27 g
Reference standard:	PN-EN 60669; PN-EN 61000

* the SLR-11 controller does not cooperate with one push-button transmitters e.g. RNL-01

APPLICATION



The application shows the method to use the LEDIX series fittings with RGB radio controller and RGB SLR-11 wireless controller. The fittings cooperate with the P-256/8 remote control. From the remote control level it is possible to switch on/switch off 1 of 8 colours added to 1÷8 keys or it can be possible to activate the fluent mode (FLOATING) or step by step mode (STROBE) for the colour change. Depending on the version the fitting can be supplied directly with 230 V AC or with 14 V DC power supply. SLR-11 controller is connected with RGB tape supplied with 12V DC. The controller cooperates with a RNK-04 push-button transmitter. By means of this transmitter the RGB strips can be switched on/switched off or brightened/dimmed or the FLOATING mode can be released. The controller is designed for mounting in a typical junction box $\varnothing=60$ mm.

OPERATION TABLE

Symbol	RNK-02	RNK-04	P-256/8	P-257/2	P-257/4	RNM-10	RNP-01	RNP-02	RNL-01	RTN-01	RCR-01	RTI-01	RXM-01	P-260
SLR-11	180	180	230	180	180	230	160	160	-	200	-	160	230	200

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.

TRANSMITTERS PROGRAMMING

Wireless EXTA FREE system transmitters



Press PROG push-button of SLR-11 device for a longer time until LED red diode switches on (constant signal). Next release PROG push-button.

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

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.

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

Touch P-260 remote control



Press PROG push-button in the controller for a longer time until STATUS red diode switches on (constant signal). Next release PROG push-button.

Press the switch on/switch off push-button of the P-260 remote control for a longer time. STATUS red diode switches on in the controller (first signal pulsates, next the signal is constant).

Release switch on/switch off push-button of the P-260 remote control. STATUS red diode switches on (the signal pulsates), next it switches off - it means the TRANSMITTER IS ADDED.

CAUTION: 32 different transmitters can be added to a single SLR-11 controller. In case of adding more than 32 transmitters, STATUS diode will flash a few times while adding them.

RADIO TRANSMITTERS DELETION



Press PROG push-button in SLR-11 controller for a longer time.

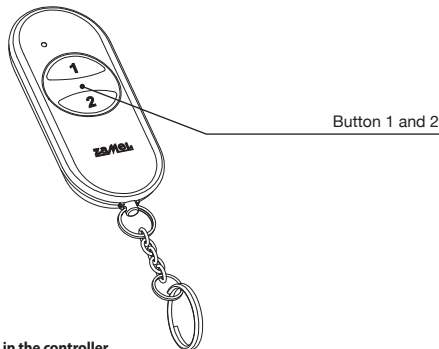
After 5 seconds LED red diode switches on (the signal pulsates) and then it switches off.

Release the push-button in SLR-11 - THE MEMORY IS DELETED.

OPERATION

Cooperation with the transmitters of the EXTA FREE system (example of P-257/2)

- Press short push-button **1** – switching on/ switching off.
- Press push-button **1** for a longer time (>3 s) – brightening/dimming in following sequence: brighten – stop – dim. The function is available also in the FLOATING mode.
- Press short push-button **2** – selection 1 out of 10 colours from the default setting (see the table).
- Press push-button **2** for a longer time (>3 s) – entry to the FLOATING mode.
- Press short push-button **2** in the FLOATING mode – change of the step (1-10) for the FLOATING mode.
- Each change of the step is signaled by a flashing of the load connected to the controller output. The transition between step 1 and 10 is signaled by repeated flashing of the load. The step 1 means that the colour change is the fastest (the whole cycle takes about 2 minutes), the step 10 means that the colour change is the slowest (the whole cycle takes about 50 minutes).
- Press push-button **2** for a longer time (>3 s) in the FLOATING mode – exit of this mode.
- The controller remembers the last setting of the mode and setting of the level of the luminous flux intensity after switching off by means of push-button **1**.



Colour table defined in the controller



Cooperation with the P-260 remote control

Switching on a suitable function/programme is carried out by pressing suitable push-buttons of the P-260 remote control:

- **ON/OFF** – switching on/ switching off.
- **Brightening/dimming function** – pressing this push-button, the function carries out the fluent change of the luminous flux intensity. This function is available in FLOATING and STROBE modes.
- **FLOATING** – activation/deactivation of the programme for automatic and fluent colour change.
- **STROBE** – activation/deactivation of the programme for automatic and step by step colour change.
- **TOUCH AREA** – allows the colour selection in a fluent way.

If the active mode is the FLOATING or STROBE mode then the following pressing of the push-buttons described as FLOATING, STROBE carries out the speed change (from 1 to 10 step) in this mode. Each change of the step is signaled by flashing of the load which is connected to the controller's output. The transition between step 10 and 1 is signaled by a repeated flashing of the load. The step 1 means that the colour change is the fastest (the whole cycle takes about 120 s), step 10 means that the colour change is the slowest (the whole cycle takes about 50 minutes).

