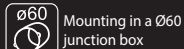


ledix



Wired RGB controller SLR-12



SLR-12 controller is designed to wired control of LED RGB diodes in the circuit with common "+ potential (RGB LEDIX series standard fittings, RGB strips and modules) supplied with 10 ÷ 14 V DC. The control is carried out from a level of standard push-buttons with normally open (NO) contacts (ring bells) or roller blind switches.

Characteristic features:

- 3 programmes to control the LED diode: colour selection (to select 1 of 10 colours defined by the producer), brightening/dimming, fluent automatic colour change mode (FLOATING),
- changing time adjustment for FLOATING mode within 10 steps (up to 50 min.),
- wired control system (2 push-buttons with normally open (NO) contacts connected with IN1 and IN2 inputs),
- 3 transistor outputs (MOSFET) with a maximum current capacity of 2,5 A per each output,
- 9-bits control system guarantees fluent colour change in the FLOATING mode,
- low power consumption in the standby mode – the controller is designed for a continuous operation.

zaMeL

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10 ÷ 14 V DC / 0,06 W; IP20

weight: 27 g



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

zaMeL

Wired RGB controller

SLR-12

10 ÷ 14 V DC

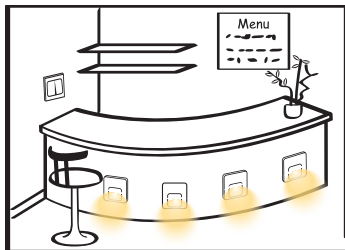
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Declaration of Conformity is on www.ledix.pl

SLR-12 ENG Ver. 01

www.ledix.pl

APPLICATION



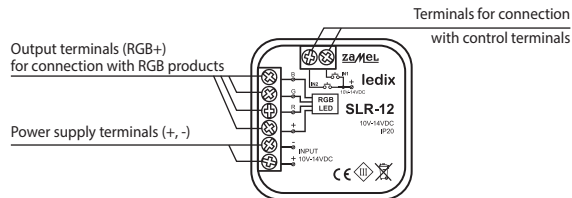
The application shows the method to use the LEDIX series fittings with RGB LED diodes which are working together with SLR-12 wired controller. A double push-button with normally open (NO) contact is connected to the controller. From the switch level it is possible to switch on/switch off the lighting, to select 1 out of 10 colours from a default setting, to brighten / to dim the selected colour. In addition, it is possible to enable fluent colour change of a mode (FLOATING). The RGB controller is supplied with ZNP-08-14 junction box (14 V/8 W).

DESCRIPTION

SLR-12 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 wired control is working together with push-buttons with normally open (NO) contacts connected to IN1 and IN2 inputs. The controller controls the functions: switching on/ switching off, fluent change of the luminous flux intensity, selection 1 out of 10 colours from default settings and the programmes for fluent automatic colour change (FLOATING). The controller features:

- wired control system for LED RGB standard fittings of the LEDIX system,
- wired control system for other LED RGB products supplied with 10÷14 V DC,
- to carry out the functions as follows: switching on/ switching off, fluent change of the luminous flux intensity, selection 1 out of 10 colours from default settings,
- to carry out the programmes of the automatic colour change (FLOATING),
- time for FLOATING programme adjusted in 10 steps,
- PWM output on the MOSFET transistor – maximum current capacity of 2,5 A,
- 9-bit fast PWM outputs allow the brightening/dimming function to be very fluent,
- small dimensions and easy mounting in the 60 junction box under existing electrical equipment,
- low power consumption in the standby mode (0.06 W) – controller is designed for a continuous operation.

APPEARANCE



TECHNICAL DATA

Nominal supply voltage:	10 ÷ 14 V DC
Nominal power consumption:	0,06 W
Number of channels:	3
Maximum current in the channel:	2,5 A
Controlling signal:	PWM 9-bit
Functions:	Switching on / switching off Selection 1 out of 10 light colours from the default setting. Light intensity selection (brightening / dimming)
Programs in operation:	Automatic fluent colour change (FLOATING)
Steps (FLOATING and STROBE)	10 (to 50 min.)
Control:	Normally open contacts (NO)
Control terminals:	IN1, IN2
Number of connecting terminals:	8
Cross-section of the connecting cables:	Up to 2,5 mm ²
Ambient temperature range:	-10 ÷ +55 °C
Casing protection degree:	IP20
Protection class:	III
Dimensions:	47,5 x 47,5 x 20 mm
Weight:	25 g
Reference standard:	PN-EN 60669, PN-EN 60950, PN-EN 61000

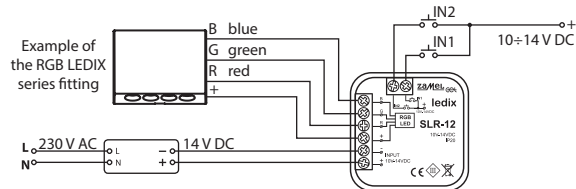
MOUNTING

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- disconnecter 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 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

OPERATION

- Press shortly the push-button connected to **IN2** input – switching on / switching off.
- Press the push-button connected to **IN2** input for a longer time (>3 s) – brightening/dimming in the following sequence: brighter – stop – dim. The function is available also in the FLOATING mode.
- Press short the push-button connected to **IN1** input – selection 1 out of 10 colours from the default setting (see the table).
- Press the push-button connected to **IN1** input for a longer time (>3 s) – entry to the FLOATING mode.
- Press short the push button connected to **IN1** input in FLOATING mode –change of the step (1-10) for the FLOATING mode.
- Each change of the step is signalized by a flashing of the load connected to the controller's output. The transition between step 10 and 1 is signalized by a repeated flashing of the load. 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).
- Press the push-button connected to **IN1** input for a longer time (>3 s) in FLOATING mode – exit of this mode.
- The controller remembers the last setting of the mode and the setting of the level of luminous flux intensity after switching off by means of the push-button connected to **IN2** input.

Colour table defined in the controller

