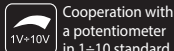
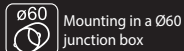


ledix



RGB controller 1 ÷ 10 V SLR-13



SLR-13 controller is designed to control RGB LED diodes in the common "+" system (LEDIX series standard RGB fittings, strips and RGB modules) supplied with 1 ÷ 10 V DC. There is a wired control in cooperation with a potentiometer in 1 ÷ 10 V standard. Characteristic features:

- in cooperation with a potentiometer in 1 ÷ 10 V standard with the connector function, it realises 3 RGB diodes control programmes: fluent colour selection - realised by turning the potentiometer's knob, fluent brightening/dimming, switching on/switching off,
- light switching off realised by turning the potentiometer to the minimum,
- three transistor (MOSFET) outputs with a maximum capacity of 2,5 A / output
- a 9-bit resolution control guarantees fluent colour changes,
- easy adaptation and control of RGB LED products supplied with 10 ÷ 14 V DC in installations with dimmers in 1 ÷ 10 V standard,
- small dimensions (easy mounting in the Ø60 junction box),
- low power consumption in the standby mode - a device designed for a continuous operation.

zaMeL

Zamel Sp. z o.o.

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e-mail: ledix@ledix.pl, www.ledix.pl

10 ÷ 14 V DC / 0,1W; 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

10 ÷ 14 V DC

ledix

RGB controller 1 ÷ 10 V

SLR-13

Declaration of Conformity is on www.ledix.pl

SLR-13 ENG Ver. 01

www.ledix.pl

DESCRIPTION

SLR-13 controller is designed to cooperate with standard LED lamps with LEDIX series RGB diodes and other RGB products supplied with $10 \div 14$ V DC (tapes, strips, modules and RGB LED lamps) in the common "+" system. There is a wired control by means of any potentiometer in $1 \div 10$ V standard with a connector function. The light colour is fluently selected by means of a potentiometer. The light intensity is also fluently selected (brightening / dimming). The switch on/switch off function is realised by turning the potentiometer to the minimum.

Features of the controller:

- wired control in cooperation with a potentiometer in $1 \div 10$ V standard with the connector function,
- possibility to cooperate with standard LEDIX fittings with RGB diodes, other RGD LED products supplied with $10 \div 14$ V DC,
- realisation of the following functions: switch on / switch off, fluent light colour selection, light intensity change,
- 3 x PWM output on the MOSFET transistor - maximum capacity of 2,5 A,
- 9-bit resolution of the PWM output enables the functions of the light colour selection and brightening/dimming are very fluent,
- small dimensions and an easy mounting in the $\varnothing 60$ junction box,
- low power consumption (0.1 W) - a device designed for a continuous operation.

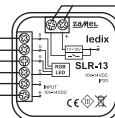
TECHNICAL DATA

Nominal supply voltage:	$10 \div 14$ V DC
Nominal power consumption:	0,1 W
Number of channels:	3
Maximum current in the channel:	2,5 A
Output control signal:	PWM 9-bit
Control:	A potentiometer in $1 \div 10$ V standard
Functions:	Switching on/switching off Fluent light colour selection Brightening/dimming
Number of connection terminals:	8
Maximum cross-section of connection cables:	do 2,5 mm ²
Ambient temperature range:	$-10 \div +55$ °C
Mounting:	In a $\varnothing 60$ junction box
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

APPEARANCE / OPERATION

Output terminals (RGB+) to connect RGB products

Power supply terminals (+, -)

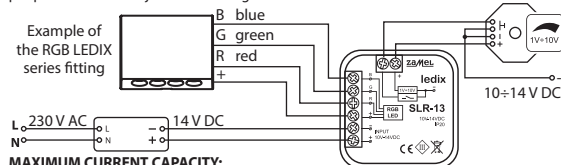


Terminals to connect $1 \div 10$ V potentiometer with the connector function

Switching on is realised by means of a fluent brightening by turning the potentiometer's knob towards the maximum. The **switching off** is realised by means of fluent dimming by turning the potentiometer's knob towards the minimum. **Brightening/dimming** - turning the potentiometer towards maximum/minimum. **Adjusting the light colour**: by pressing the potentiometer's knob $1 \div 10$ V connected to the controller, there is a switch between the brightening/dimming function (switching on/ switching off) and a function of a fluent light colour selection. The colour selection is realised by turning the potentiometer. The selected colour is remembered by the controller. **CAUTION: After connecting the controller, the light colour has to be chosen as the following step.**

DIAGRAM

CAUTION! Nominal output voltage of the power supply ($10 \div 14$ 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 for LED diode products supplied with 10 V
- Up to 30 W for LED diode products supplied with 12 V
- Up to 35 W for LED diode products supplied with 14 V

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.

- 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 connection cables by means of a measure equipment.
- Connect the power supply to 230 V AC.
- Connect the cables to the appropriate terminals in accordance with the diagram.
- Mount the controller in the $\varnothing 60$ junction box.
- Switch on the power supply from the mains and check their proper functioning.