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10 ÷ 14 VDC

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Surface mounting RGB amplifier WLN-01



The WLN-01 amplifier is dedicated for cooperation with RGB controllers. It is used when load output of lighting RGB products exceeds the maximum current output load of RGB controller. The amplifiers are used also in very long RGB installations to synchronise all RGB modules. The WLN-01 amplifier is dedicated do surface mounting. It cooperates with a RGB products in connection with common „+“.

WLN-01 amplifier is suitable to mount on wood and wood-like materials with thickness more than 2 mm. It is possible to mount this device directly in gypsum-carton board structures.

The amplifier meets the requirements of harmonized standards for safety and electromagnetic compatibility.

Features:

- increasing of RGB controllers outputs (up to 4 A per output),
- low power consumption during stand-by mode (0,155 W) - the device suitable to continuous work mode,
- adapted to build a serial and parallel RGB installations.

The WLN-01 amplifier cooperates with:

- RGB controllers, for example SLR-11, SLR-12, SLR-13,
- lighting fittings LEDIX series, LED strips and RGB modules in connection with RGB controller.

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10 ÷ 14 V DC / 0,155 W; IP20
weight: 120 g



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

DESCRIPTION

The WLN-01 amplifier is dedicated for cooperation with RGB controllers in installation supplied by $10 \div 14$ V DC voltage. It is used when load output of lighting RGB products exceeds the maximum current output load of RGB controller. The amplifier is used also in very long RGB installations to synchronise all connected modules. The WLN-01 has got the three MOSFET outputs with maximum continuous capacity 4 A. Amplifier allows to create a serial and parallel RGB installations. The WLN-01 amplifier is dedicated to surface mounting. It cooperates with a RGB products in connection with common „+“.

The amplifier features are:

- increasing of RGB controllers current capacity,
- ensuring synchronous operation of all modules in wide RGB installations,
- possibility to create a serial and parallel RGB installations,
- low power consumption during stand-by mode (0,155 W) - the devices suitable to continuous work mode.

TECHNICAL DATA

Nominal supply voltage:	$10 \div 14$ V DC
Nominal power consumption:	0,155 W
Number of inputs / outputs:	4 (R, G, B, +)
Maximum output capacity:	4 A / output
Number of connection terminals:	10
Maximum cross-section of connection cables:	up to 2,5 mm ²
Ambient temperature range:	$-10 \div +55$ °C
Operating position:	free
Mounting:	surface
Casing protection degree:	IP20
Protection class:	III
Dimensions:	52,5 x 167 x 38,5 mm
Weight:	120 g
Reference standard:	PN-EN 60669; PN-EN 61000

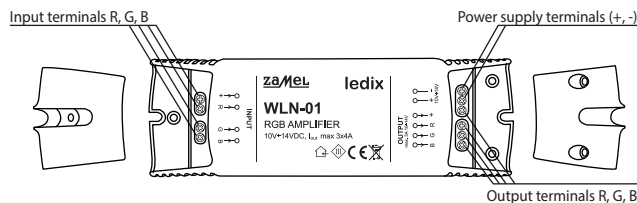
MOUNTING

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 proper terminal clamps of WLN-01 amplifier in accordance with the connection diagram (diagram No. 1÷3).
5. Install amplifier on the final place.
6. Switch on the power supply from the mains and check the proper functioning of the device.

The power supply should be selected so that the output power not less than the total output capacity (controllers, amplifiers, RGB objects). Power supply power depends largely on the type of the RGB installation - with a common power supply of amplifier and controller is needed to use one central power supply usually more powerful. In a separate power supply of RGB amplifier and controller is necessary to apply more power supplies with less capacity.

APPEARANCE



DIAGRAMS

DIAGRAM 1. Common power supply of RGB controller and amplifiers.

There is necessary to use once central power supply in the installation. The power supply output capacity is adjusted to total power of all RGB products including controller and amplifiers.

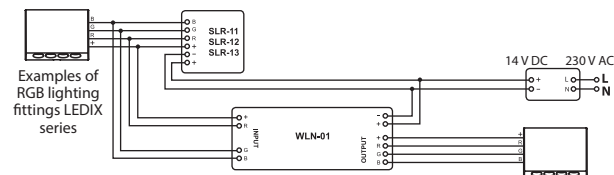


DIAGRAM 2. Individual power supply of RGB controller and amplifiers.

There is not necessary to connect power supplies to the common potential (connecting of power supplies with „-“ potential) what greatly simplifying RGB installations.

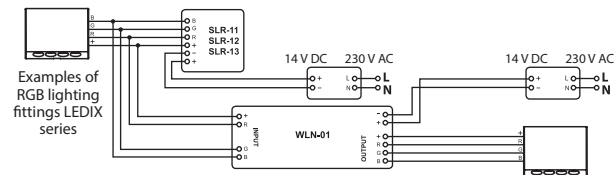


DIAGRAM 3. Serial installation „chain“ type.

