

OL 180 OCTALUMINA DIMMER

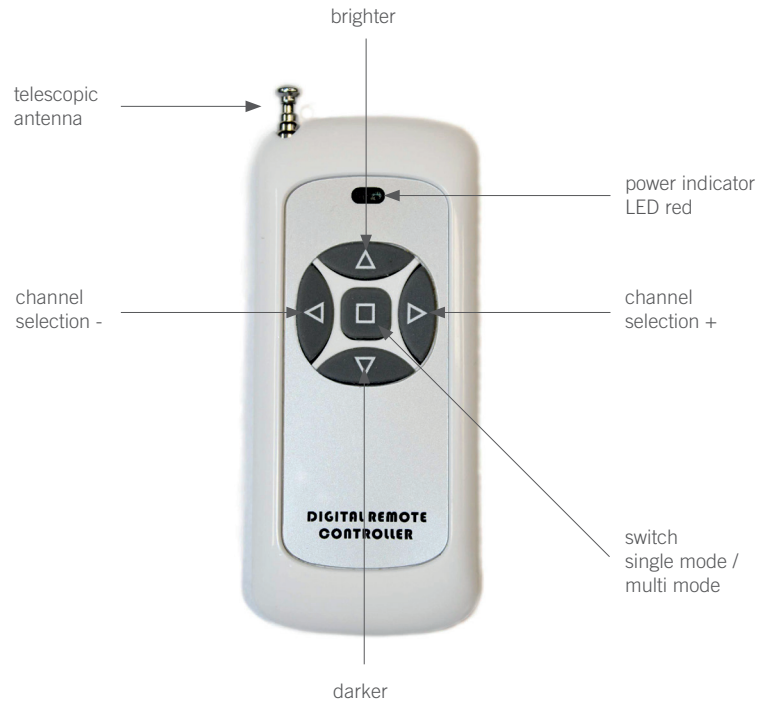
Instruction Manual



OL 180 OCTALUMINA DIMMER

Remote Control

1. FUNCTIONAL OVERVIEW REMOTE CONTROL



2. TECHNICAL DATA REMOTE CONTROL

- dimensions: L 40 x W 92 x H 14 mm
- max. antenna extension length: 175 mm
- range (antenna min. length): 20 m
- range (antenna max. length): 25 m
- wavelength: 433 MHz
- number of batteries: 1 piece
- battery type: high-voltage special battery 23 A, type MN21, voltage 12 V

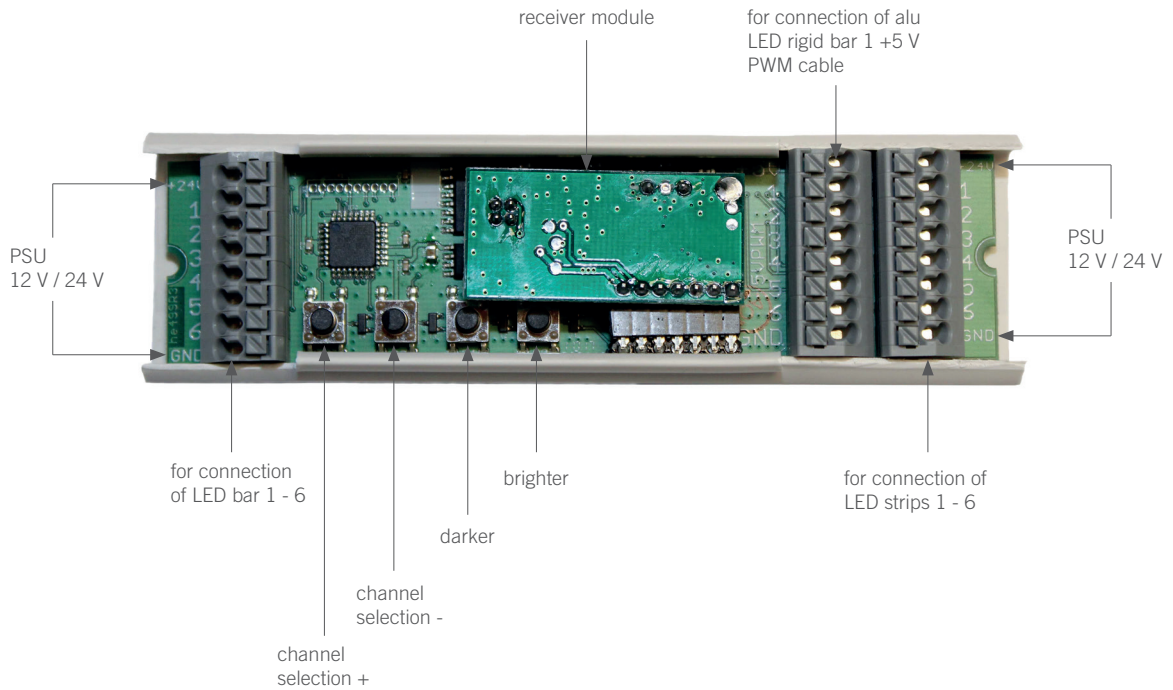
3. FUNCTIONS OF REMOTE CONTROL

- The middle button is used to choose between single mode (all LED strips are lit individually) and multi mode (all LED strips have the same brightness).
- In single mode, individual channels can be selected with the left or the right button.
- The upper and lower buttons are used for dimming. Brightness is increased with the upper button and reduced with the lower button.
- While up or down button is pressed, dim will reach a 50% step. The LEDs are blinking, while this step is reached. Release and press again - dim will reach 100% after a while. LEDs start blinking when maximum brightness is reached.

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Dimmer

4. FUNCTIONAL OVERVIEW DIMMER



5. TECHNICAL DATA DIMMER

- dimensions: L 125 x W 35 x H 20 mm
- connections for output dimming: 6 connection possibilities each on the left and right side
- nominal cross section of connection cables: 0.5 - 1.5 mm²
- admitted current load per connection: max. 3 A
- connections for analog dimming: 6 connections 0 - 5 V

6. EMERGENCY OPERATION DIMMER

- If the remote control is lost or no longer functioning, the dimmer can also be operated directly from the device. To this end, remove the cover of the dimmer.
- Now you see four buttons that can be used to control the brightness of the LEDs (see picture above: channel selection +, channel selection -, darker and brighter).

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General information

7. GENERAL DESCRIPTION

- Every time the device is started, all LEDs are shortly lit up with maximum brightness. After that, the dimmer switches to the last active mode (single or multi mode).
- All set brightness values are stored automatically.



- Strip the ends of all connecting cables for about 8.5 to 9.5 mm. The nominal cross section of the cables should be 0.5 to 1.5 mm².
- In order to connect the cables to the clamping strip, press down the relevant button (marked red). Now insert the cable into the opening and release the button.

8. IMPORTANT INFORMATION

- **Installation may only be carried out by a qualified electrician.**
- **Current safety regulations apply for the electrical installation and connection of cables and devices.**
- **The dimmer may only be used indoors.**
- **Do not connect a PSU to the + 5 V and GND clamps. These connections may only be used for extensions.**
- **The maximum current per channel is 3 A (power dimming).**
- **Do not use more than 6 channels simultaneously.**

9. DESCRIPTIONS

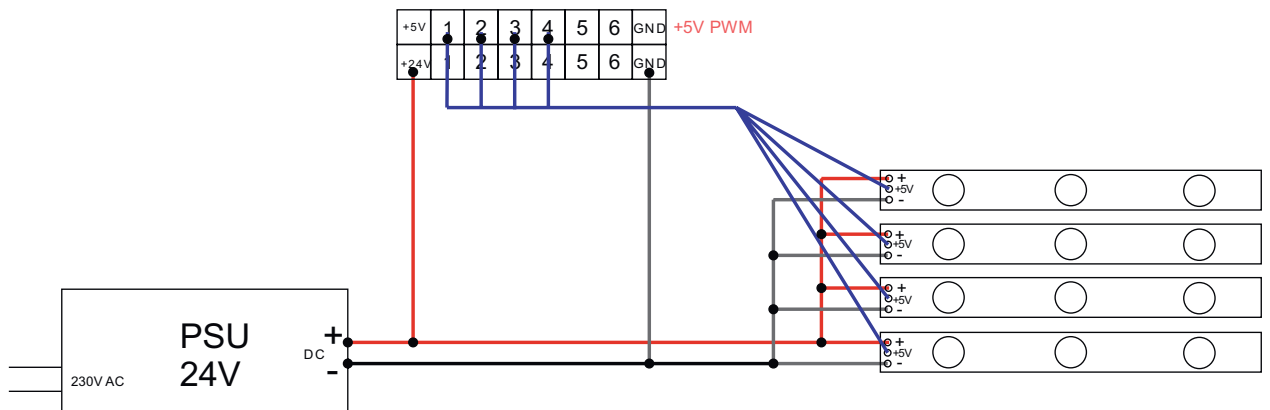
- Alu = aluminium
- ESD = electrostatic discharge
- GND = ground
- LED = light-emitting diode
- MHz = megahertz
- PWM = puls width modulation
- V = volts
- Side light = OL 223 - OL 229

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Dimming

10. ANALOG DIMMING (OCTALUMINA SIDE LIGHT BARS OL 223 - OL 229)

- Before starting, please be sure to carefully read the General Description and Information on page 4!
- This variant allows continuing the dimming line of the LEDs independently of the connection cable.
- Connect a 24 V PSU to the dimmer as shown in the illustration below.
- The power supply (+ 24 V and GND) of the LED strips is connected on the other side of the dimmer.
- The dimming lines of the LED strips are individually attached to the slots of the analog clamping bar.



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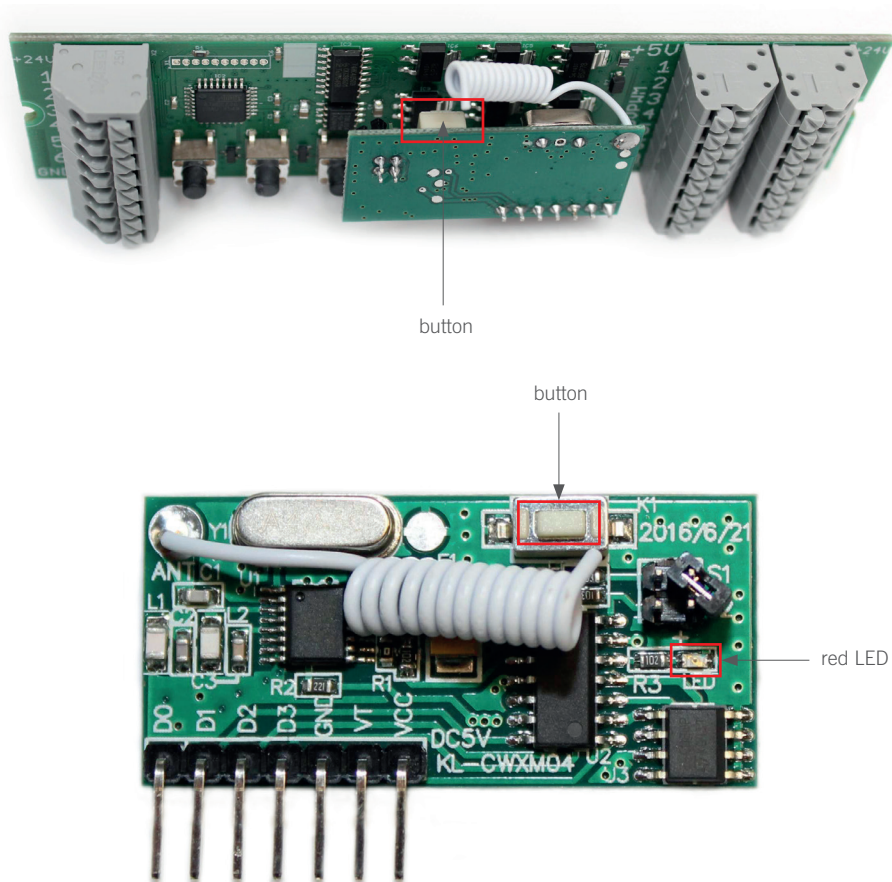
Pairing

11. PAIRING OF SENDER (REMOTE CONTROL) AND RECEIVER (ANALOG DIMMER)

- Please pay attention to ESD when handling the circuit board and always observe electrical safety during connection of the PSU!
- Remove the cover of the dimmer.
- Pull the printed circuit board out of the PWM dimmer housing.
- Connect a PSU (+ 12 V or + 24 V) to the clamping bar of the dimmer (slots + 24 V and GND).
- Press the button on the receiver module (see image below) and hold it until the red LED on the small printed circuit board starts blinking.
- Take the remote control and press any button. Make sure that the remote control points towards the receiver module with the red LED still blinking. (Repeat the procedure if the LED has already stopped blinking.)
- The LED stops blinking. Pairing is completed.

NOTE

- Another dimmer can be paired to the remote control as described above.



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First Aid Measures

12. FIRST AID MEASURES IN THE CASE OF TECHNICAL PROBLEMS

CAUSE	SOLUTION
Red LED of remote control only blinks weakly during operation. Battery is almost empty.	Replace battery. (see page 2 - Technical Data Remote Control)
Remote control is still not working after battery replacement. Remote control is defective.	Remote control must be replaced. Please get in touch with us.
Remote control and dimmer are not paired.	See page 9
Connection cables are loose.	Check the clamping bars and make sure that all cables are firmly connected.
PWM dimmer is defective.	The dimmer has to be replaced. Please get in touch with us.
PSU cables are loose.	Check the clamping bars and make sure that all cables are firmly connected.
PSU is defective.	PSU must be replaced. Please get in touch with us or use another, similar PSU.

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