

## EN – Instruction for installation of the DPI-01 rotary dimmer LED – DSR 23 in RETRO design

The LED dimmer allows for continuous light control via the rotary switch and is capable of controlling light source LEDs up to a maximum load of 100 W and a maximum of 10 LED light sources. It is also possible to use a brightness dimmer LED and a classical filament lamp from 10 W to 250 W. The instrument regulates the intensity of illumination in two MODE 1 modes (trailing-edge) and MODE 2 (leading-edge - with delayed phase switching). An independent AC switch has been integrated into the dimmer, allowing use in circuits where multiple-point lighting is needed.

### Information about dimmed LEDs

Always select LED light sources that are labeled "Dimmable". However, we can not guarantee that all LED light sources labeled "Dimmable" can actually be dimmable!

### Safety during installation

The dimmer is designed for a maximum load of 100 W and a voltage of 230 V AC 50 Hz. The installation therefore needs to be carried out by a qualified electrician.

### Installation of dimmer:

#### 1. When installing the dimmer the following conditions must be emphasized

- Wiring box for switches must be installed flush with the plaster
- In case of a problem with "drowned" wiring box it is necessary to use spacer (distance) rings VK1 and VK2, thereby preventing deformation of the metal frame of the device while tightening the screws. They are not included.
- Fastening in the installation box is made through the metal frame of the switch with two screws  $\varnothing$  3 mm
- For installation of multiple sets of the device it is necessary to use multiple boxes with a pitch of 71 mm
- Dimmers can be mounted in the wiring box with a min. depth of about 40 mm
- The device is supplied as standard with spacers that can be tightened to a maximum of 1 Nm

#### 2. Connecting the dimmer

- The dimmers are designed to connect cables from 1,5 mm<sup>2</sup>
- Strip wires in total length of max. 6 mm
- Connect the wires according to wiring diagrams
- after mounting the dimmer to the wiring box, the proper and firm fastening of the wires in terminals of the device must be checked and loose wires tightened

#### 3. Check the dimmer function

- Pressing the dimmer button turns on
- By turning the axis clockwise, the intensity of the illumination increases
- Turning the axis counterclockwise decreases the intensity of the light
- Pressing the dimmer button turns off

#### 4. Completion of the dimmer installation

- Place a frame on the dimmer (ceramic, wooden, concrete)
- Insert the dimmer cover and screw it lightly with the supplied M3 x 8 screws. In case of ceramic frame, tighten screws with a torque of 0,05 Nm – this prevents cracking of the frame due to its brittleness
- Fit the dimmer button and test the correct function

### Removing the Dimmer:

- Remove the knob by gently pulling it together while turning the knob
- Unscrew the two fixing screws and remove the dimmer cover and frame
- Remove the dimmer after removing the two screws and remove the wires

### Setting the dimmer - changing the mode

- At the factory, the DPI-01 LED Dimmer is set to MODE 2 (leading-edge - with delayed phase switching).
- For some luminaires, it is better to use the control in MODE 1 (trailing-edge - phase cut function).
  - **Changing the dimmer LED mode**
    1. Turn on the dimmer and set the rotary knob to the MAXIMUM position (turn right)
    2. Turn the dimmer off and then on again. OFF - ON. Wait until the light reaches full intensity.
    3. Repeat step 2 at least twice. OFF - ON - OFF - ON and wait for the dimmer to reach full light intensity each time it is turned on.
    4. The light turns on once more strongly, once weaker, which means that the dimmer is in the CONFIGURATION MODE configuration mode and the light goes off.
    5. To select the mode:
      1. "MODE 2" - turn the knob to the right
      2. "MODE 1" - turn the knob to the left
    6. The lights once (MODE 1) or twice (MODE 2) flicker according to the selected mode. The number of flashes corresponds to the program in which the dimmer works.
    7. The dimmer now works in the new setting
    8. You can see the dimmer mode set at any time by skipping point 5

### Setting the dimmer - changing the minimum brightness

- If the effect called "flashing light" occurs, settings can be changed min. brightness value.
- If the luminaire is at min. setting the dimmer too bright, it is advisable to change the min. brightness value.
  - **Setting the minimum brightness of the dimmer LED**
    1. Switch on and set the dimmer knob to the MINIMUM position (turn fully anti-clockwise).
    2. Turn the lights off and back on again. OFF – ON. Wait until the lights come on.
    3. Repeat step 2 at least twice more. OFF – ON – OFF – ON, waiting until the lights come on each time they are switched on.
    4. The lights will step up and down in brightness to show that the dimmer is in CONFIGURATION MODE, then go off.
    5. Turn the knob to the far right. The lights come on and we can set the minimum luminous intensity.
    6. Set the minimum brightness point that suits you. Leave the dimmer in this position.
    7. After 3 seconds the dimmer detects that a new brightness has been selected and the light turns on once more strongly, once weaker, which confirms the return to normal mode.

### The LED dimmer DPI-01 is designed for:

- ✓ filament bulbs with 230V AC
- ✓ High quality electronic voltage transformers with dimmer function (including transformers allowing trailing edge control)
- ✓ 230V halogen lamps
- ✓ Digiflux Compact dimmable fluorescent lamps
- ✓ LED light sources with dimming function

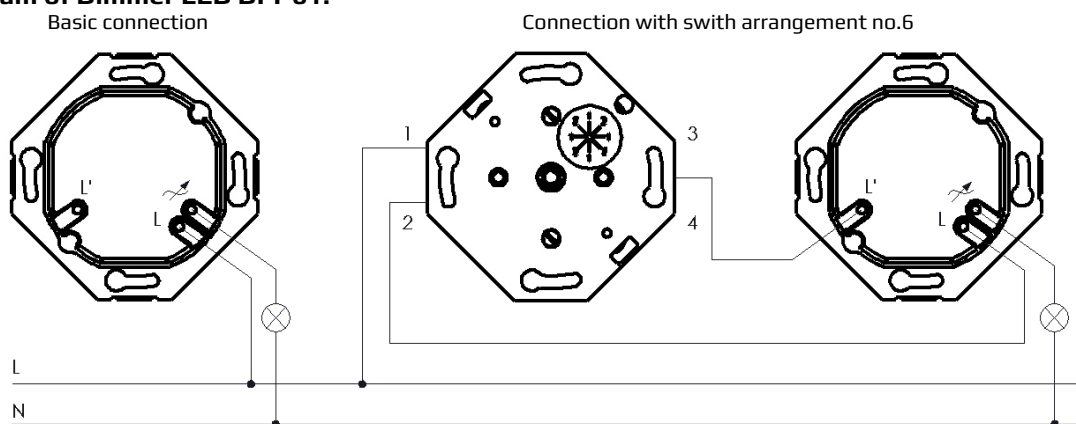
### The DPI-01 dimmer LED is not intended for regulation:

- X fluorescent lamps and compact fluorescent lamps with non-dimming functions
- X wire or toroidal transformers
- X electromotors

### Technical parameters of the dimmer DSR 23

Connecting	3 - wire without medium conductor
Max. cross-section of the connecting conductor	1,5 mm <sup>2</sup>
Power supply	230VAC / 50Hz
LED load - max. 10 lights	0 - 100 W
Loading with incandescent filament bulbs	10 - 250 W
Protection	IP20
User-replaceable fuse	F 2 A / 250 V
Operating temperature	from 5°C to +45°C
Weight	120 g
Dimensions (mm)	70 x 70 x 31
Mounting (mm)	with screws (pitch of 60) with spacers (from Ø 61 to Ø 68)

### Wiring Diagram of Dimmer LED DPI-01:



### Maintenance:

LED dimmer does not require any maintenance!

Covers of the LED dimmer must never be wiped or washed by abrasive cleaning cloths and no aggressive chemicals (petrol, acetone, etc.) may be used on them.

This product does not contain any hazardous substances. At the end of its life, it must be handled in terms of the applicable Waste Act, as amended.