USER GUIDE

reflectiveswitch

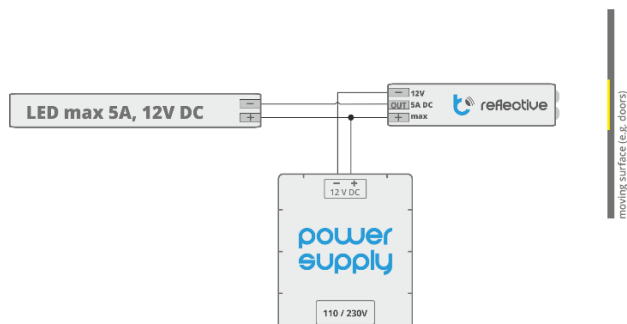THE WORLD'S SMALLEST LED CONTROLLER BASED ON INFRARED LIGHT REFLECTION

reflectiveSwitch LED driver is based on the optoelectronic reflectance sensor and a miniature processor responsible for digital signal processing.

⚠	Important: Before starting the installation, make sure the power is off and you read the following instructions carefully.
⚠	Do not connect the device to loads exceeding recommended values.

INSTALLATION

BASIC CONNECTION

1. Connect the device according to the diagram:

LED max 5A, 12V DC
12V
OUT 5A DC max
reflective
moving surface (e.g. doors)
12 V DC
power supply
110 / 230V

2. Check the wiring. If everything is connected properly, switch on the power supply and move your hand or a sheet of paper in front of the Reflective Switch, light should switch on, off or start blinking, depending on operation mode.

3. If it works correctly, disconnect the power supply and fix the device on the desired place. Moving surface (e.g. wardrobe door or drawer front) should be placed in front of sensor, at distance between 3 - 20 mm, depending on surface color. You can use adhesive (we recommend cyanoacrylate called also „Super Glue") or double-sided tape.

4. (hint: if the moving surface is dark you can stick a little white piece of paper on it to improve reliability

5. Ensure that the device is installed properly. Switch on the power supply.

SETTINGS

6. reflectiveSwitch can operate in two different modes:

- As a switch mono-stable (useful for example for use in the closet, where the light switch on when the door opening)

- Bi-stable - for example, if you want to turn on or turn off the lights using a hand (eg. behind mirror).

7. To change the mode, tap the front of the sensor 5 to 7 times with the tip of your finger for 2-3 seconds. The device goes into setup mode, which is indicated by the dimming light.

8. Now touch the sensor again. Each tap switches the sensor to the next mode, which is indicated by blinking LED (the number of flashes indicates the current mode) - 1 flash - mono-stable on the object detected - 2 flash - mono-stable switches off when the object detected - 3 flash - bi-stable - each detecting light will be turned on or off.

8. After setting the desired mode, wait a few seconds. They are saved settings that are indicated by turning on or off depending on the mode selected.

9. Make sure the device works as expected. If not, change the setting or place. When everything is fine, leave it turned on for 10 minutes and check if it is overheating. The device should not be hot. If so, this may be due to exceeding the operating parameters (e.g., the LED strip is too long).

If you need to include a significant burden to the driver, please consider using our amplifier ampBox.

TECHNICAL SPECIFICATIONS reflectiveSwitch			
electrical parameters			
supply voltage	12– 24V DC	maximum power	96W
maximum current	4A	Energy consumption	< 0,1W
physical characteristics of the device			
sensor	optical, reflective	mode	NO,NC, bistable
dimensions	36 x 10 x 13 mm	degree of protection	IP00
Mounting method	inside aluminum profile for LED stripe/ heat shrink tubing	methods of connecting wires	soldering, screw terminal
operating temperature range	From -10 to +40˚C		

For more information and technical support contact your Blebox.eu dealer, visit the www.blebox.eu website or send us an e-mail: info@blebox.eu

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