



proudly presents

uLedDevice series product

Reflective Switch

Designed and manufactured in Europe

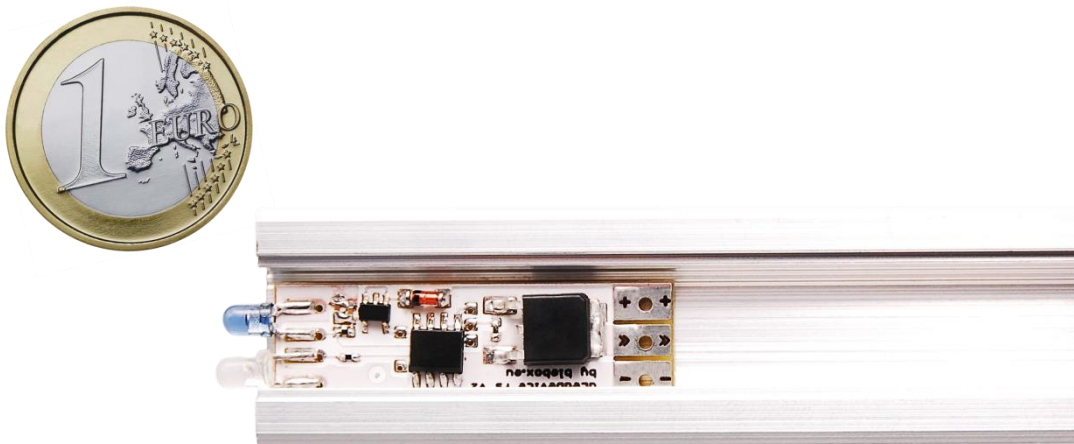


Fig. 1 – device installed in LED profile - 1 euro coin only for size comparison

Reflective Switch is the world's smallest LED controller based on infrared Light reflection for usage in LED application, e.g. in furniture industry, home decoration, ambient lighting, automotive industry, assisted living solutions, etc.

WHAT IS REFLECTIVE SWITCH?

Try to imagine, that you want that the light will be switched on when you open the wardrobe. And switched off when you close it. This is Reflective Switch.

Try to imagine that you want to switch on the mirror backlight without touching anything with your hands. Who likes the dirty soap marks on the mirror? Reflective Switch can do it for you.

Try to imagine that you open the door and walk in the house when it is dark. Light will switch on smoothly. Yes, Reflective Switch can also do it for you.

Reflective Switch is the world's smallest, fully integrated LED light controller with high power PWM smooth control feature, infrared proximity detector and microprocessor which provides digital signal processing which can easily control LED light strips, low voltage led fixtures, etc. without any touch.

HOW THE REFLECTIVE SWITCH WORKS?

No magic inside.

Reflective Switch is based on technology used in automations and robotics to detect objects and obstacles. Each device contains invisible light (infrared) transmitter and small Switch (like a little, digital camera), which observes for reflections.

It can measure how fast the modulated signal travels from the transmitter to object and from object to receiver to determine how far it is. The information is transmitted to tiny microprocessor which perform many calculations, apply special digital filters (like band-pass filter) and many others) to provide reliable operation and based on user settings (yes! you can also configure this little device!) determines should it switch on or off the light.

And it does it gently. Smooth dimming is included. Because who likes when the strong light switch on rapidly during the dark night?

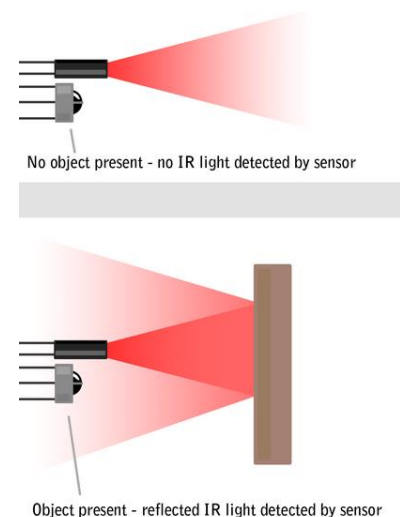


Fig. 2 – how reflective sensor works

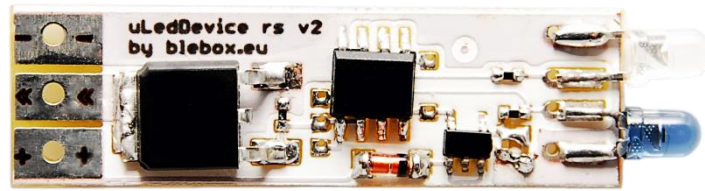


Fig. 3 – Reflective Switch

IS IT DIFFICULT TO INSTALL REFLECTIVE SWITCH?

No. All the difficult things are already *on board*. Just connect power adapter and led light strip or fixture and set operation mode using simple gesture. To make it easy to hide the Switch under the mirror or in the led profile inside the wardrobe, it doesn't have any wire connector. You can solder wires yourself following our quick soldering guide or ask in your favourite LED shop. They can do it for you!

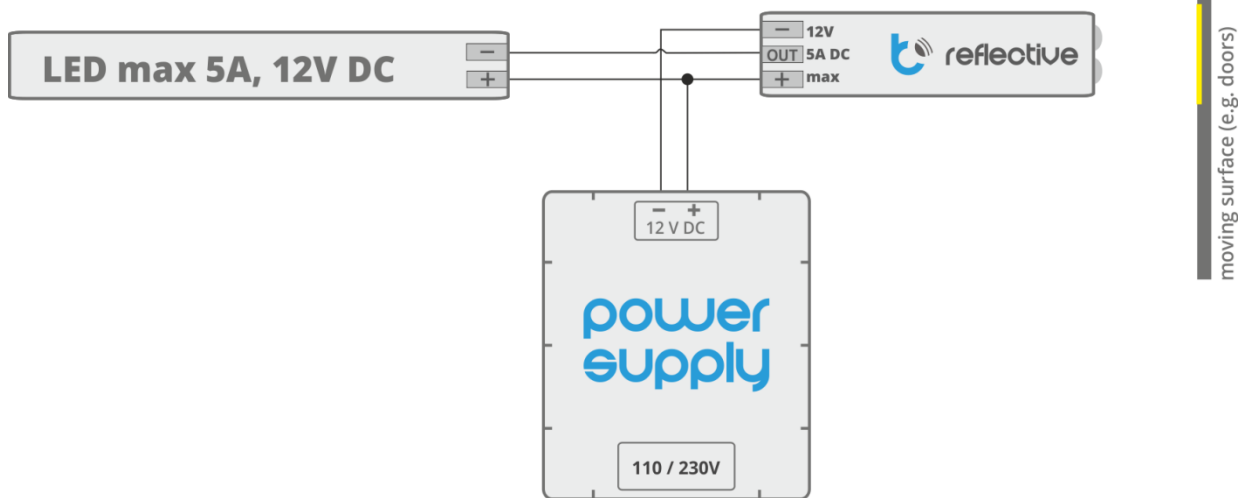


Fig. 3 – Wiring diagram

Parameters:

- **Voltage:** 7 - 15V DC
- **Maximum current:** 5A
- **Operating temperature:** 0 - 40°C
- **Dimensions:** 42 x 10,5 x 4mm (fits inside every LED profile)
- **Connections:** soldering joints