

White USB LED Strip with Sensor

Introduction: The LED Strip with Sensor is a board designed for low power lighting, activated by the transition from light to dark or directly via the switch. An example use case would be night lights.

The board is designed such that it is within the of the supply rating of a computer USB port (under 100mA). The PCB is approximately 50mm long, 10mm wide, and is provided with a single mounting hole.

The side-mounted slide switch has three positions: On, Off and Sense. The On and Off positions directly turn on/off the LEDs, whereas the Sense position makes use of the end-mounted phototransistor to turn the LEDs on when the darkness threshold has been reached. A clear gap has been left between the phototransistor and the rest of the components to allow a barrier to be placed between them in an enclosure design, ensuring no light from the LEDs can affect the sensor.

Specification

Operational Supply	5V via micro USB connector
Forward Current	90mA at 5V
Number of LEDs	5 White LEDs
Luminous Intensity	~8000mCd
Colour Temperature	6500K
Mounting	Single M3 hole (3.3mm Dia)

