Yocto-Light-V3

The Yocto-Light-V3 device is a USB ambient light sensor (lux meter) which allows you to measure ambient light up to 100'000 lux. Measurements can be read directly via USB or stored on the device internal flash for later retrieval when connected again by USB.

This device is a replacement for the Yocto-Light V1 which is not produced anymore. The response to light is closer to that of the human eye than the Yocto-Light-V2.

This circuit has been designed so that the sensor itself can be moved away from the USB part by a few meters: simply split the board into two parts and solder a 4-wire cable on the designated pads.

Specifications

Product ID	LIGHTMK3
USB connector	micro-B
Width	20 mm
Length	35.5 mm
Weight	3 g
Sensor	BH1751FVI
Refresh rate	4 Hz
Measuring range	0...100'000 lux
Sensitivity	0.25 lux
IEC protection class	class III
Normal operating temperature	5...40 °C
Extended operating temperature[‡]	-30...85 °C
RoHS compliance	RoHS III (2011/65/UE+2015/863)
USB Vendor ID	0x24E0
USB Device ID	0x0050
Suggested enclosure	YoctoBox-Short-Thin-Black
Harmonized tariff code	8542.3190
Made in	Switzerland

[‡] The extended temperature range is defined based on components specifications and has been tested during a limited duration (1h). When using the device in harsh environments for a long period of time, we strongly advise to run extensive tests before going to production.

For more information: www.yoctopuce.com/EN/products/yocto-light-v3