

Color 3 click

PID: MIKROE-2103

Weight: 22 g


Color 3 click is a mikroBUS™ add-on board with a **TCS3771** color sensor (also known as a light-to-digital converter) and a narrow beam Infrared LED. The circuit can also function as a proximity sensor.




Quantity

1  

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DESCRIPTION

SPECIFICATION

DOCUMENTATION

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TCS3771 is a RGBC sensor: it can detect Red, Green, Blue and clear light. The IC performs well under a variety of lighting conditions. For example, it can be covered with different attenuation materials.

As a proximity sensor it has a large dynamic range of operation. It can take short distance measurements behind dark glass; or it can be configured for longer distance measurement, for example, human presence detection in front of monitors or laptops.

For power-saving, TCS3771 has an internal state machine that can put the device into a low power mode between successive RGBC and proximity measurements.

TCS3771 is also fast enough to give off proximity information at a high rate of repetition. This makes it useful for proximity detection in portable devices (such as a phone coming near to a speaker's ear).

Color 3 click communicates with the target MCU through the mikroBUS™ I2C interface, with additional functionality provided by an INT pin. Designed to use a 3.3 power supply only.

Downloads



Color 3 click Examples 



Color 3 click Schematic



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