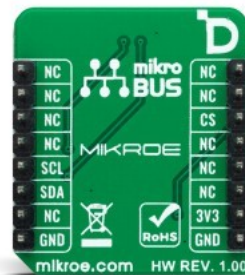
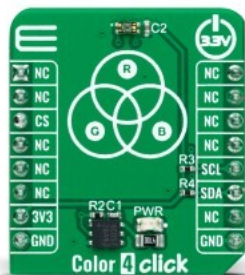


Color 4 Click



PID: MIKROE-2220

Color 4 Click is a compact add-on board providing an accurate color-sensing solution. This board features the [VEML6040](#), a 16-bit RGBW color sensor offering spectral response through a compatible I2C interface from [Vishay Semiconductors](#). The VEML6040 is based on the Filtron™ technology achieving the closest ambient light spectral sensitivity to real-human eye responses. Alongside the color sensor, this IC also incorporates a signal conditioning circuit consisting of photodiodes, amplifiers, and A/D circuits placed into a single chip using the CMOS process. It provides a selectable measurement range up to 16.496lx with the highest sensitivity of 0.007865lx/step. This Click board™ is suitable for color sensing with maximum flexibility in industrial, mechanical, and consumer applications.

Color 4 Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
ISO 14001: 2015 certification of environmental management system.
OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	Color Sensing
Applications	Can be used for industrial, mechanical, and consumer applications
On-board modules	VEML6040 - advanced RGB/ambient light sensor from Vishay Semiconductors
Key Features	Integrated RGBW and signal conditioning, Filtron™ technology provides real-human eye responses, supports low transmittance (dark) lens, high resolution, selectable detection range, high sensitivity, I2C interface, and more
Interface	I2C
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)
[mikroSDK](#)
[Click board™ Catalog](#)
[Click boards™](#)

Downloads

[Color 4 click example on Libstock](#)
[VEML6040 datasheet](#)
[Color 4 click 2D and 3D files](#)
[Color 4 click schematic](#)

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