## Light mix-sens Click



PID: MIKROE-4148
Light mix-sens Click is carrying TMD37253, an advanced proximity measurement, color sense (RGBC+IR), and digital ambient light sensing (ALS) device. The TMD37253 slim module package has been designed to accommodate a "single hole" aperture approach that incorporates an IR LED and factory calibrated LED driver. The proximity detection feature provides object detection (e.g., mobile device screen to the user's ear) by photodiode detection of reflected IR energy (sourced by the integrated LED). The ALS detection feature provides photopic light intensity data. The color photodiodes have UV and IR blocking filters and a dedicated data converters producing 16 -bit data. This architecture allows applications to accurately measure ambient light which enables devices to calculate illuminance and color temperature to control display backlight and chromaticity.

Light mix-sens Click board ${ }^{\text {m }}$ is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board ${ }^{\text {TM }}$ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS ${ }^{\text {TM }}$ socket.

## Specifications

| Type | Optical |
| :--- | :--- |
| Applications | Can be used for ambient light sensing，single <br> hole proximity sensing，mobile phone touch <br> screen disable，color temperature sensing to <br> assist backlight，camera，and flash control． |
| On－board modules | Light mix－sens Click uses the TMD37253 IC，an <br> advanced proximity measurement，color sense <br> （RGBC＋IR），and digital ambient light sensing <br> （ALS）device，from AMS． |
| Key Features | Accurate color temperature and ambient light <br> sensing，UV／IR blocking filters，46 Average <br> FOV，Photopic ambient light sensing（ALS）， <br> Programmable gain and integration time， <br> Reduced power consumption． |
| Interface | I2C |
| Compatibility | mikroBUS |
| Click board size | S（28．6 25.4 mm ） |
| Input Voltage | 3.3 V |

## Resources

mikroBUS $^{\text {TM }}$
mikroSDK

## Click board ${ }^{\text {m }}$ Catalog

Click boards ${ }^{\text {™ }}$

## Downloads

## Light mix－sens click example on Libstock

Light mix－sens click 2D and 3D files
TMD37253 datasheet
Light mix－sens click schematic management system（QMS）．

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