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# Proximity 15 Click

PID: MIKROE-4822

**Proximity 15 Click** is a compact add-on board that contains a close-range proximity sensing solution. This board features the VL53L1, a state-of-the-art, Time-of-Flight (ToF), a laser-ranging miniature sensor from STMicroelectronics. The VL53L1 allows absolute distance measurement, whatever the target color and reflectance. It integrates a SPAD (single-photon avalanche diode) array, physical infrared filters, and optics to achieve the best-ranging performance in various ambient lighting conditions, with a wide range of cover windows. It provides accurate ranging above 4m and can work at fast speeds (60Hz). With patented algorithms and ingenious module construction, the VL53L1 is also able to detect different objects within the field of view and scene browsing and multi-zone detection. This Click board™ is suitable for consumer and industrial applications such as multi-object detection and multi-array scanning.

Proximity 15 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.

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# Specifications

| Type | Proximity |
|---|---|
| Applications | Can be used for consumer and industrial applications such as multi-object detection and multi-array scanning |
| On-board modules | VL53L1 - third-generation time-of-flight (ToF) laser-ranging sensor from STMicroelectronics |
| Key Features | Low power consumption, fast accurate distance ranging, 400cm+ detection with full field of view, multi-object detection, multi-zone scanning, shutdown and interrupt feature, works with many types of cover glass, and more |
| Interface | I2C |
| ClickID | No |
| 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

Proximity 15 click example on Libstock

Proximity 15 click 2D and 3D files

VL53L1 datasheet

Proximity 15 click schematic