

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.

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	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
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](#)

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