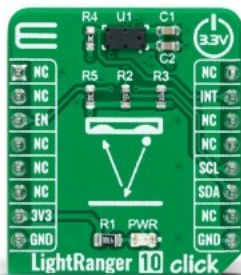


# LightRanger 10 Click



PID: MIKROE-5206

**LightRanger 10 Click** is a compact add-on board suitable for range-finding and distance sensing applications. This board features the [VL53L4CX](#), a ToF (time of flight) optical distance sensor with an extended target detection range from [STMicroelectronics](#). Specifically designed for long-range and multi-target measurements, the VL53L4CX provides very accurate distance measurements up to 6m with excellent results over short distances and 18° FoV (Field of View), which improves performances under ambient light. Data processing is performed inside the VL53L4CX, providing distance information and confidence values through its I2C interface. This Click board™ is suitable for presence (object) detection, distance measurement, industrial ranging, inventory control, and many other applications.

LightRanger 10 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	Optical
Applications	Can be used for presence (object) detection, distance measurement, industrial ranging, inventory control, and more
On-board modules	VL53L4CX - ToF (Time-of-Flight) optical distance sensor from STMicroelectronics
Key Features	Fast and accurate distance ranging, major improvement in long distance-ranging performance across all targets and light levels, multiobject detection capability, targets beyond 80 cm range are immune to crosstalk from 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

[LightRanger 10 click example on Libstock](#)
[LightRanger 10 click 2D and 3D files](#)
[VL53L4CX datasheet](#)
[LightRanger 10 click schematic](#)

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