

# Distance Sensor Breakout Board

SEN-14722

## Product Overview

12-16-2021

For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

Qwiic Distance Sensor Breakout Board (SEN-14722) utilizes VL53L1X next generation Time of Flight (ToF) sensor module that gives accurate measurements at long ranges. The cvSEN-14722 board employs communication enacted via I<sup>2</sup>C and utilizes a handy Qwiic system that requires no soldering for connection with the rest of the system. This breakout board also incorporates 0.1-inch spaced pins to use a breadboard. The SEN-14722 board comes with a field of view of 15°C to 27°C and read rate up to 50Hz. This breakout board operates at 2.6V to 3.5V supply voltage range.

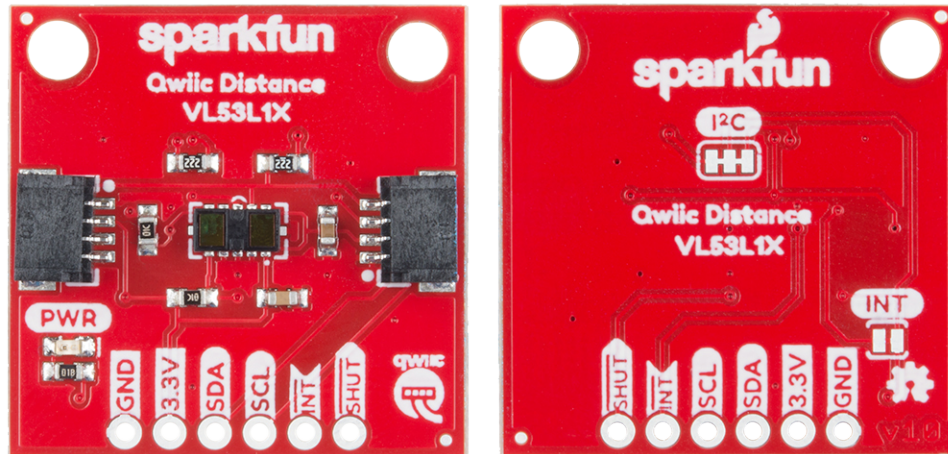


The VL53L1X ToF sensor uses a Vertical Cavity Surface Emitting Laser (VCSEL) that emits an IR laser to time the reflection to the target. This VL53L1X sensor measures the distance to an object from 40mm to 4m away with millimeter resolution. The VL53L1X ToF sensor features 1mm precision with an accuracy of around  $\pm 5\text{mm}$  and minimum read distance of 4cm.

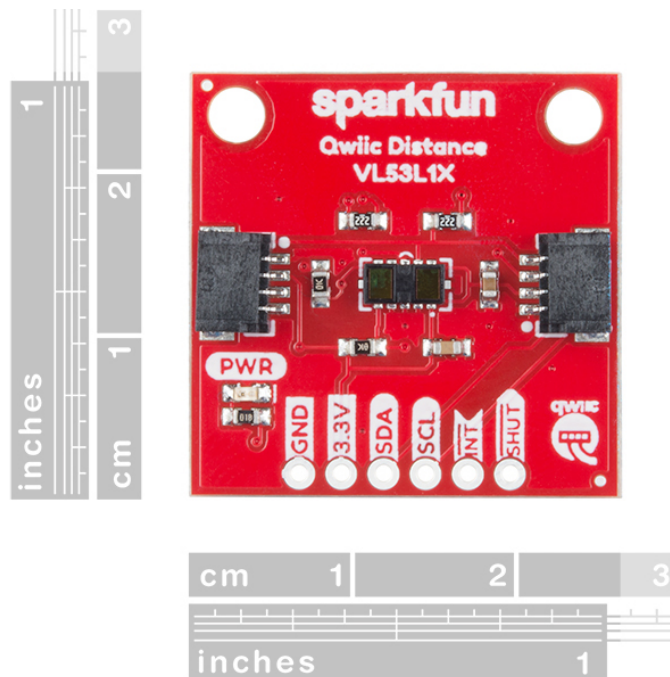
## Features

- Utilizes VL53L1X ToF distance sensor
- Communication exclusively via I<sup>2</sup>C
- 0 x 52 I<sup>2</sup>C address
- The handy Qwiic system enables no soldering
- 0.1-inch spaced pins
- 20mW power consumption at 10Hz
- Approximately 40mm to 4000mm measurement range
- $\pm 1\text{mm}$  resolution
- Class 1 940nm VCSEL light source
- 15°C to 27°C Field of View (FoV)
- 2.6V to 3.5V supply voltage range
- Up to 50Hz read rate

## Top & Bottom View



## Board Dimensions



## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-sen-14722-board/>