



TOF DISTANCE SENSOR WIRING

AST1024

This Wiring features a VL53L0X Infrared Time-of-Flight sensor, most often used for distance detection between 2cm and 2m!

Note* 5-Pin Wiring cables not included and sold separately.

VL53L0X Time-of-Flight Sensor Specs

- Fully integrated miniature module
 - 940 nm laser VCSEL
 - VCSEL driver
 - Ranging sensor with advanced embedded microcontroller
- Fast, accurate distance ranging
 - Measures absolute range up to 2m
 - Reported range is independent of the target reflectance
 - Advanced embedded optical cross-talk compensation to simplify cover glass selection
- Eye safe
- I²C
 - Compatible with 400 kHz (FAST mode)
 - Address: 0x52

TinyDuino Power Requirements

- Voltage: 3.0V - 5.5V
- Current:
 - Hardware Standby: 5uA
 - Software Standby: 6uA
 - Timed Ranging Inter Measurement: 16uA
 - Active Ranging Average Consumption: 19mA

Pins Used

- A5/SCL - I²C Serial Clock line
- A4/SDA - I²C Serial Data line

Dimensions

- 10mm x 10mm (.393 inches x .393 inches)
- Max Height (from the lower bottom of Wirelingto upper top Wireling Connector): 3.70mm (0.15 inches)
- Weight: 1 gram (.04 ounces)

You can also use this Wireling without the TinyDuino – modifying the connecting cable by removing the opposite connector and stripping/tinning the wires, you can solder the connector cable to any other microcontroller board of your choice!

- **VL53L0X Datasheet**
- **Schematic**
- **Eagle Files**
- **Sample Arduino code**

