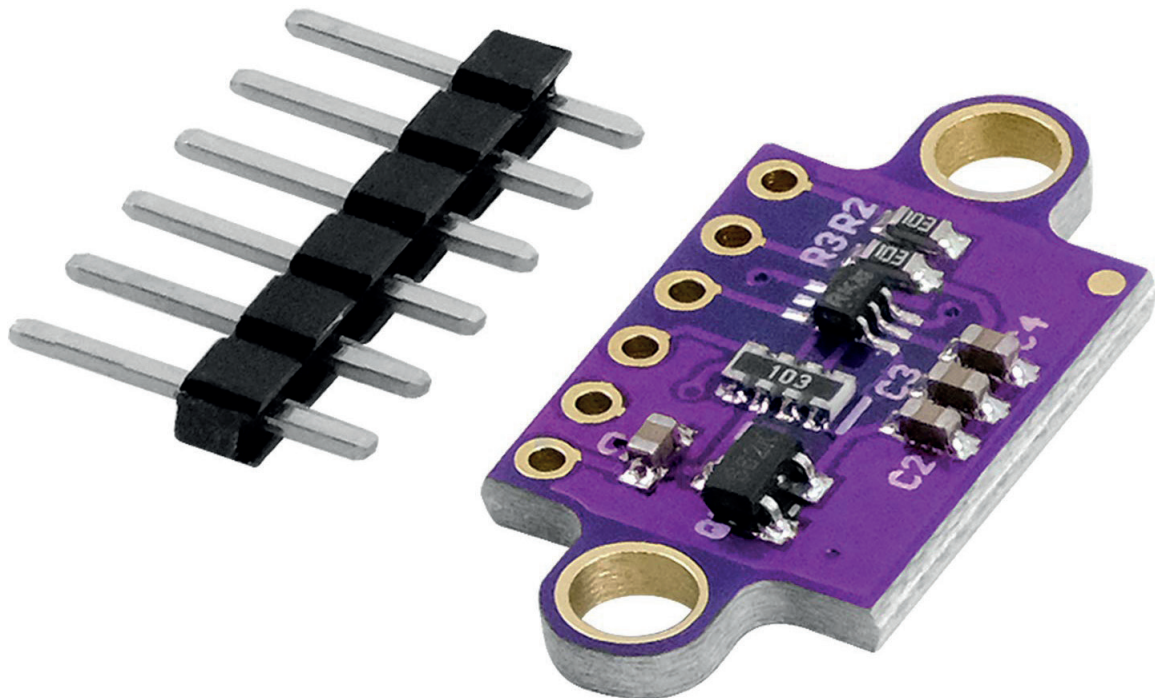


VL53L0X Time of Flight Sensor Datenblatt



Content:

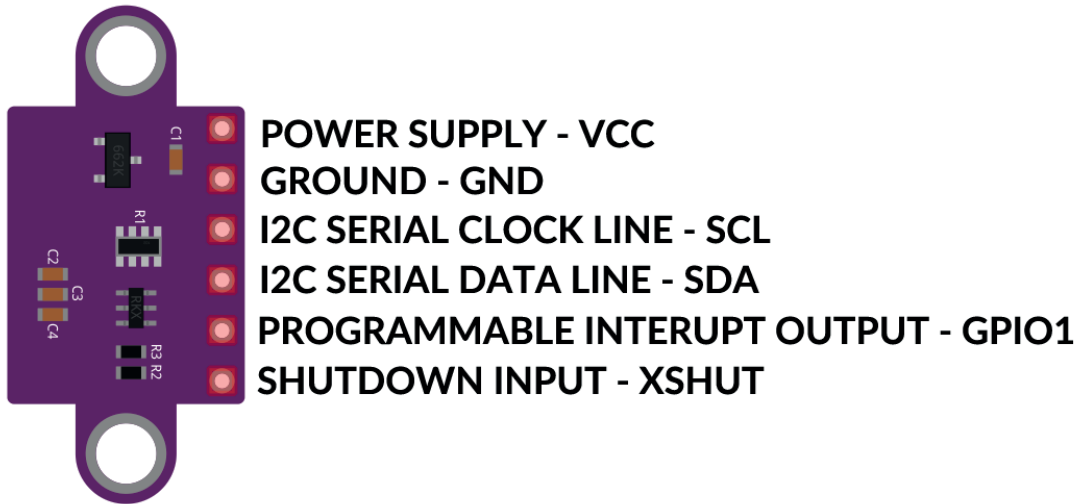
- [1. Specifications](#)
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1. Specifications

Operating Voltage Range	2.7V to 5VDC
Operating Current Range	10mA to 40mA
Power Consumption	20 mW
Laser Wavelength	940nm
Measurement Range	From 40mm to 4,000mm
Resolution	+/-1mm
Field of View	15° – 27°
Interface	I²C
Mounting Holes Diameter	3mm
Operating Temperature Range	-20°C to +70°C
Dimensions	13mm x 18mm x 2mm (0.5in x 0.7in x 0.08in)

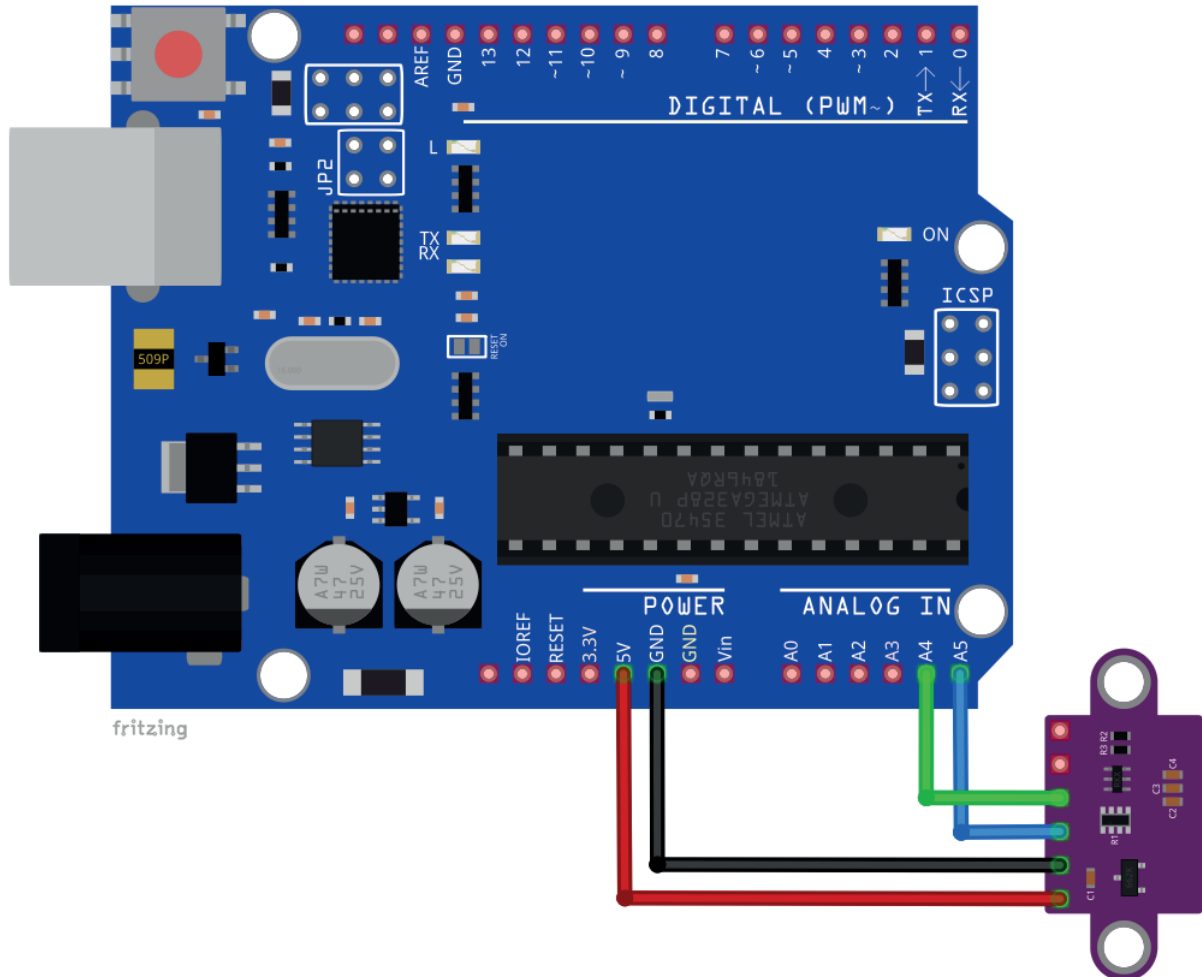
The default I2C address for the VL53LOX is 0x29, but it can be changed, if multiple sensors are used. Each sensor has its own dedicated I2C address that can be set through software.

2. Pinout

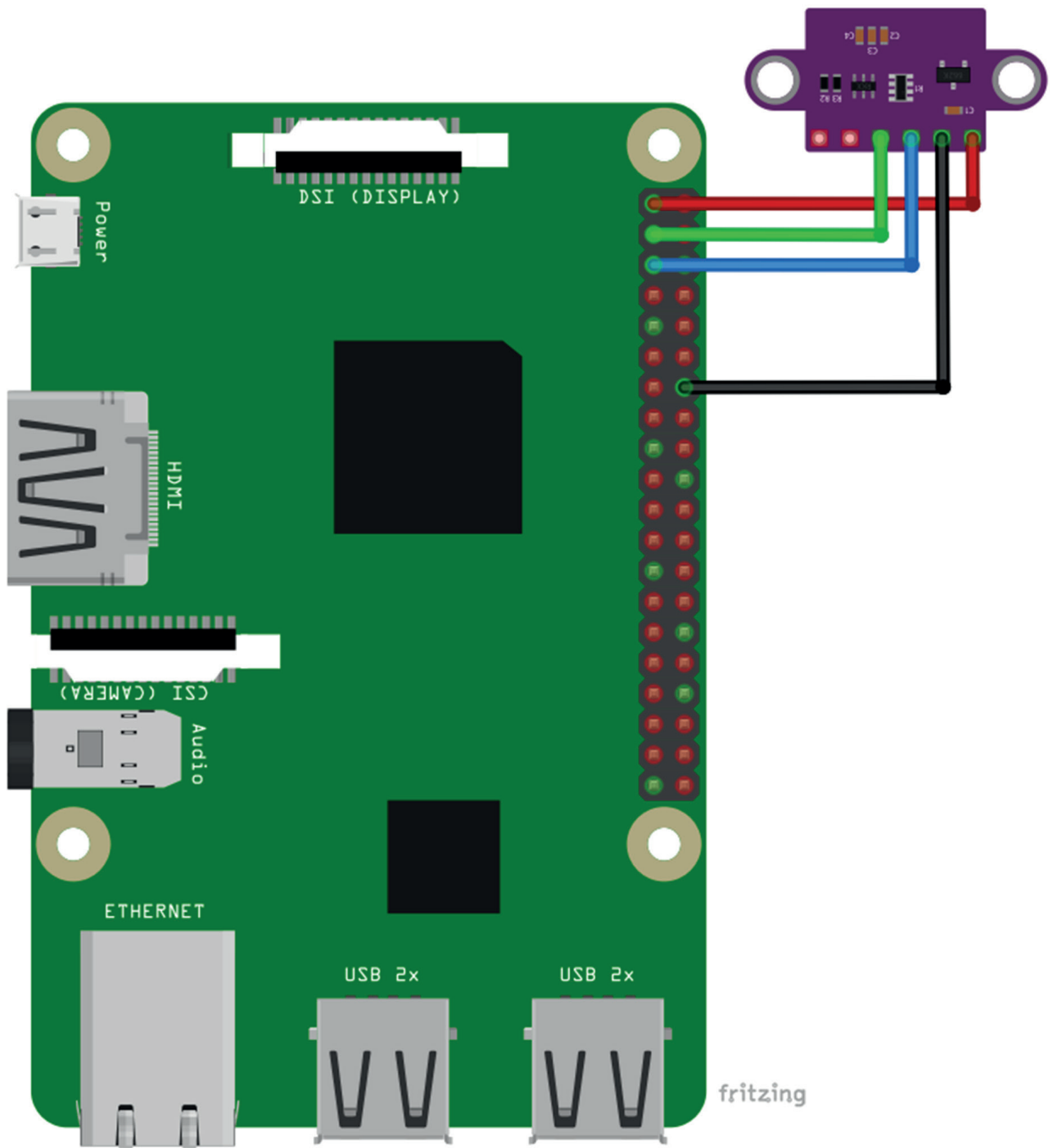


Pin	Description
VCC	This is the main 2.6V to 5.5V power supply connection. The SCL and SDA level shifters pull the I2C lines high to this level.
GND	The ground (0V) connection for power supply. The I2C control source must also share a common ground with this board.
SDA	The ground (0V) connection for power supply. The I2C control source must also share a common ground with this board.
SCL	Level-shifted I2C clock line: HIGH is VIN, LOW is 0V
XSHUT	This pin is an active-low shutdown input; the board pulls it up to VCC to enable the sensor by default. Driving this pin low puts the sensor into hardware standby. This input is not level-shifted.
GPIO1	Programmable interrupt output (VDD logic level). This output is not level-shifted.

3. Connection Diagram



Module Pin	Microcontroller Pin	Wire Color
VCC	5V	Red Wire
GND	GND	Black Wire
SCL	A5	Blue Wire
SDA	A4	Green Wire



Module Pin	Microcontroller Pin	Physical Pin	Wire Color
VCC	3V3	1	Red Wire
SDA	GPIO2	3	Black Wire
SCL	GPIO3	5	Blue Wire
GND	GND	14	Green Wire

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