Connections

Wiring Harness
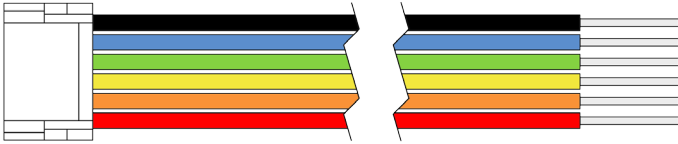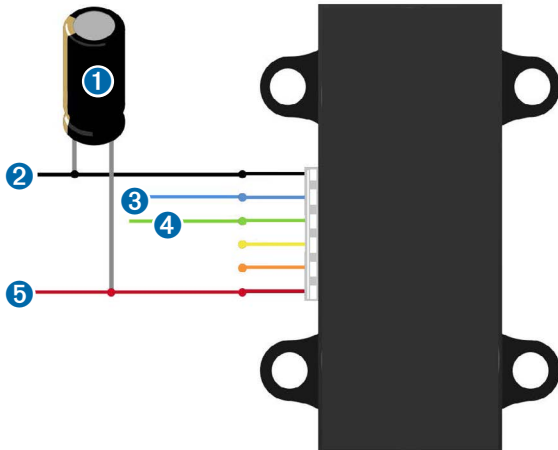

Wire Color	Function
Black	Ground (-)
Blue	I2C SDA (I2C configuration)
Green	I2C SCL (I2C configuration)
Yellow	Mode control (PWM configuration)
Orange	Enable (Internal pullup)
Red	5 Vdc (+)

There are two basic configurations for this device:

- **I2C (Inter-Integrated Circuit)**—a serial computer bus used to communicate between this device and a microcontroller, such as an Arduino board
- **PWM (Pulse Width Modulation)**—a bi-directional signal transfer method that triggers acquisitions and returns distance measurements without using I2C
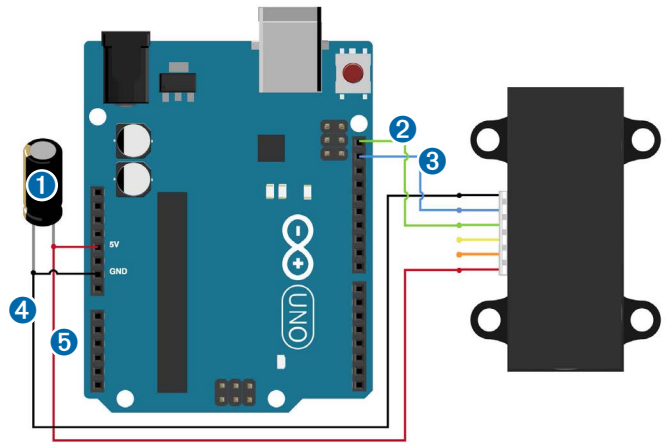
I2C Connection Diagrams

Standard I2C Wiring

Item	Description	Notes
❶	680µF electrolytic capacitor	You must observe the correct polarity when installing the capacitor.
❷	Power ground (-) connection	Black wire
❸	I2C SDA connection	Blue wire
❹	I2C SCL connection	Green wire
❺	5 Vdc power (+) connection	Red wire The sensor operates at 4.75 through 5.5 Vdc, with a max. of 6 Vdc.

Standard Arduino I2C Wiring

Item	Description	Notes
❶	680µF electrolytic capacitor	You must observe the correct polarity when installing the capacitor.
❷	I2C SCL connection	Green wire
❸	I2C SDA connection	Blue wire
❹	Power ground (-) connection	Black wire
❺	5 Vdc power (+) connection	Red wire The sensor operates at 4.75 through 5.5 Vdc, with a max. of 6 Vdc.