

Components required:

- Ultrasonic sensor
- Vibration module
- Arduino UNO
- Bread board

Connection procedure:

Reset: Resets the microcontroller

- Analog Pins(A0 – A5)

Used to provide analog input in the range of 0-5V

- Input/Output Pins:(Digital Pins 0 – 13)

Can be used as input or output pins.

- Serial:(0(Rx), 1(Tx))

Used to receive and transmit TTL serial data

- Power(Vin, 3.3V, 5V, GND)

● Vin: Input voltage to Arduino when using an external power source.

● 5V: Regulated power supply used to power microcontroller and other components on the board.

● 3.3V: 3.3V supply generated by on-board voltage regulator. Maximum current draw is 50mA.

● GND: ground pins.

- External Interrupts:(2, 3)

● To trigger an interrupt.

- PWM:(3, 5, 6, 9, 11)

● Provides 8-bit PWM output.

- SPI:(10 (SS), 11 (MOSI), 12 (MISO) and 13 (SCK))

● Used for SPI communication

- Inbuilt LED:(13)

- ◎ To turn on the inbuilt LED.
- ◎ TWI:(A4 (SDA), A5 (SCA))
- ◎ Used for TWI communication.

