

Ks0019 keystudio Passive Buzzer module

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Passive Buzzer Module



Introduction

We can use Arduino to make many interactive works of which the most commonly used is acoustic-optic display.

The circuit in this experiment can produce sound. Normally, the experiment is done with a buzzer or a speaker while buzzer is simpler and easier to use.

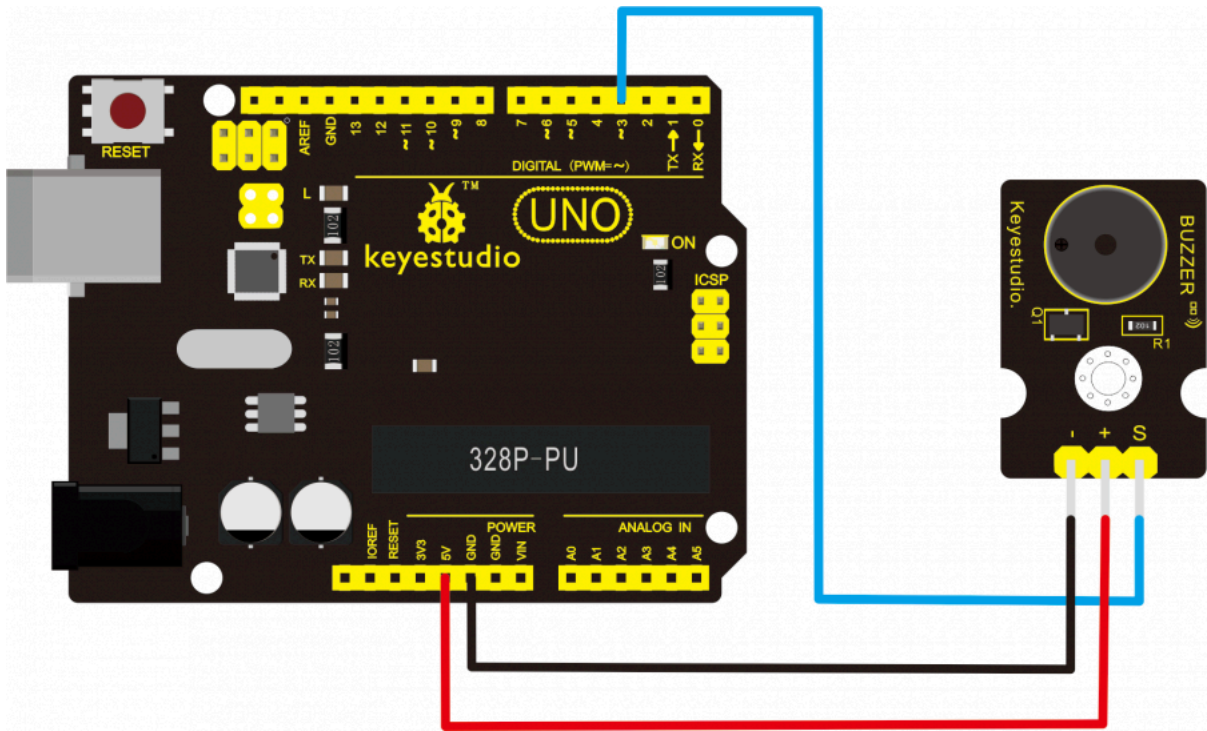
The buzzer we introduced here is a passive buzzer. It cannot be actuated by itself, but by external pulse frequencies. Different frequencies produce different sounds.

We can use Arduino to code the melody of a song, which is quite fun and simple.

Specification

- Working voltage: 3.3-5v
- Interface type: digital

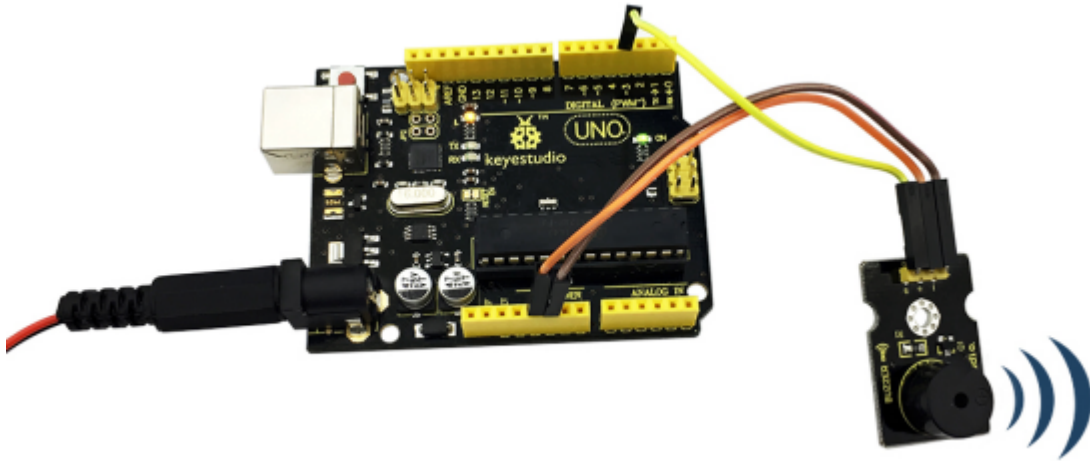
Connection Diagram



Sample Code

```
int buzzer=3;//set digital IO pin of the buzzer
void setup()
{
  pinMode(buzzer,OUTPUT);// set digital IO pin pattern, OUTPUT to be output
}
void loop()
{
  unsigned char i,j;//define variable
  while(1)
  {
    for(i=0;i<80;i++)// output a frequency sound
    {
      digitalWrite(buzzer,HIGH);// sound
      delay(1);//delay1ms
      digitalWrite(buzzer,LOW);//not sound
      delay(1);//ms delay
    }
    for(i=0;i<100;i++)// output a frequency sound
    {
      digitalWrite(buzzer,HIGH);// sound
      digitalWrite(buzzer,LOW);//not sound
      delay(2);//2ms delay
    }
  }
}
```

After downloading the program, buzzer experiment is complete. You should hear the buzzer ringing.



Resources

- **Video**

<http://video.keyestudio.com/ks0019/>

- **Datasheet**

<https://fs.keyestudio.com/KS0019>

Buy from

- **Official Website** (<https://www.keyestudio.com/free-shipping-keyestudio-passive-buzzer-alarm-module-for-arduino-p0158.html>)
- **Shop on aliexpress** (https://ru.aliexpress.com/store/product/Free-shipping-Keyestudio-Passive-Buzzer-AI-arm-Sensor-Module-for-Arduino-CE-FCC/4247007_32887250232.html?spm=a2g0v.12010615.8148356.9.6d4a6c9b9lb3uF)

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