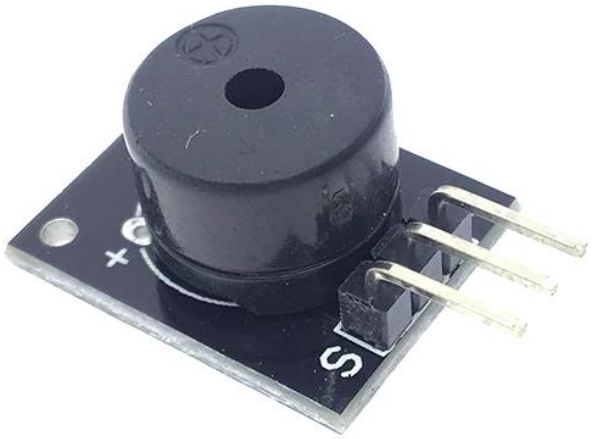
Passive Buzzer Module

The KY-006 Buzzer Module consists of a passive buzzer, it can generate tones between 1.5~2.5 kHz by switching it on and off at different frequencies either using delays or PWM. PWM-Signals of different frequencies can be used to create different sounds from the buzzer.

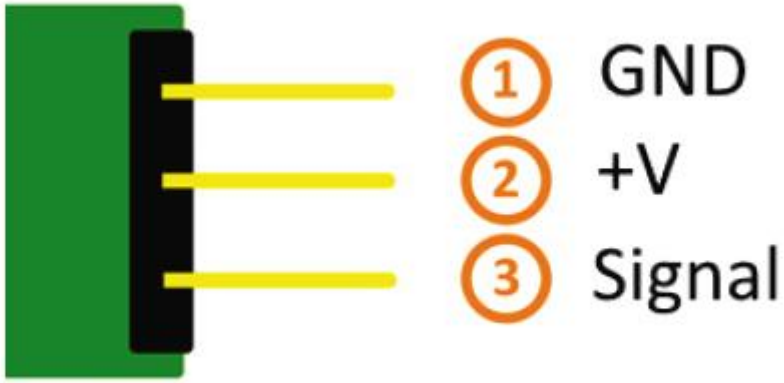


SKU: MDU1126

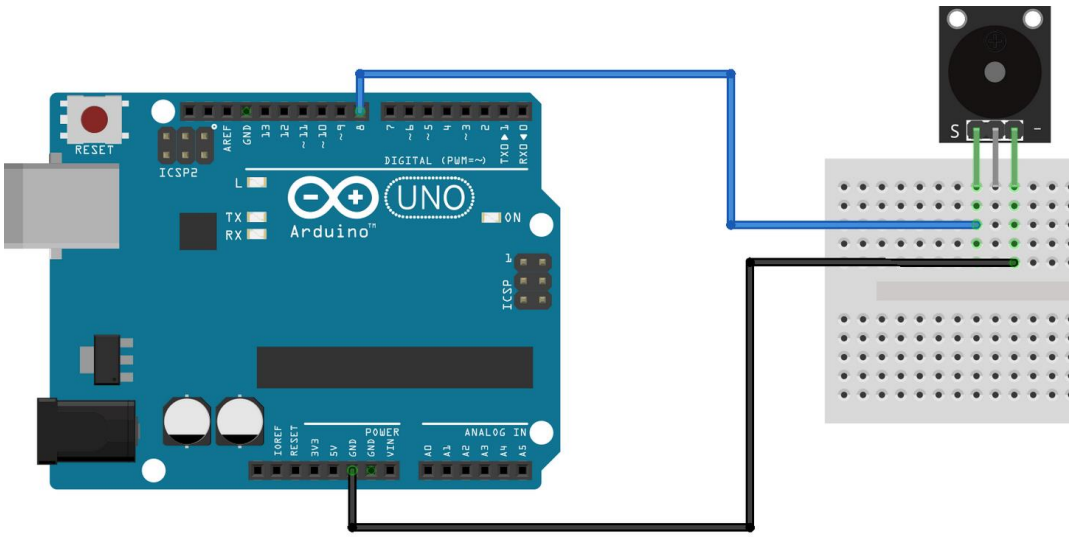
Brief Data:

- Oscillation Frequency: 1500~2500Hz.
- Connector Pitch: 2.54mm.
- Operation Voltage: 3~5V.
- Color: Black.
- Operating Temperature: -20 ~ +70°C.
- Dimension (L x W): 1.85 x 1.5 cm.

Pin Assignment:



Arduino Code Example:



This is an example program which will start an alarm signal on the buzzer via square wave voltage.

```
int buzzer = 8 ; // Declaration of the buzzer-output pin


void setup ()
{
  pinMode (buzzer, OUTPUT) ;// Initialization of the output pin.
}

void loop ()
{
  unsigned char i;
while (1)
    {
        // The buzzer will be controlled by 2 different frequencies in this program.
        // The signal is a square wave signal.
        // The on and off of the buzzer will generate a sound which is nearly the sound
of the frequency.
        // The frequency will be defined from the time of the on and off period.

        //Frequency 1
        for (i = 0; i <80; i++)
          {
            digitalWrite (buzzer, HIGH) ;
            delay (1) ;
            digitalWrite (buzzer, LOW) ;
            delay (1) ;
          }

        //Frequency 2
        for (i = 0; i <100; i++)
        {
          digitalWrite (buzzer, HIGH) ;
          delay (2) ;
          digitalWrite (buzzer, LOW) ;
          delay (2) ;
        }
    }
}
```

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