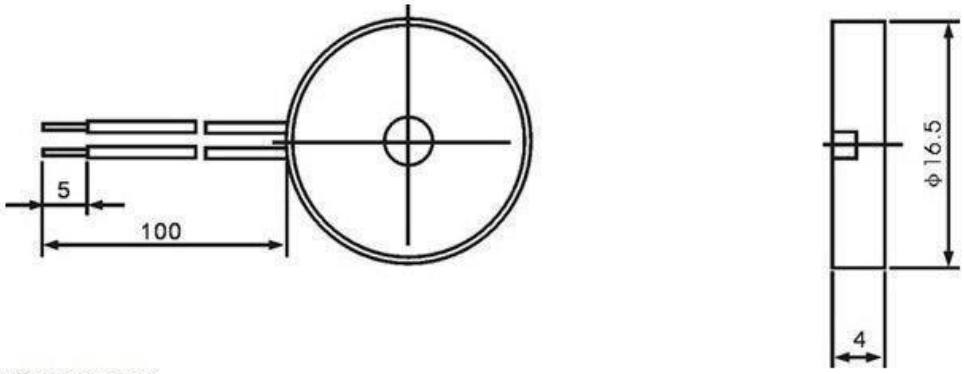
SYNACORP TRADING & SERVICES
No.9, 1st Floor, Lorong 1/SS2, Bandar Tasek Mutiara, 14120 Simpang Ampat, S.Prai (S), Penang
Tel : +604.502.1726 Hunting Line : 012.403.3474 Fax : +604.502.1726
(Website) http://www.synacorp.my (Email) sales@synacorp.com.my

Piezo Buzzer 1-30VDC 80dB

Introduction

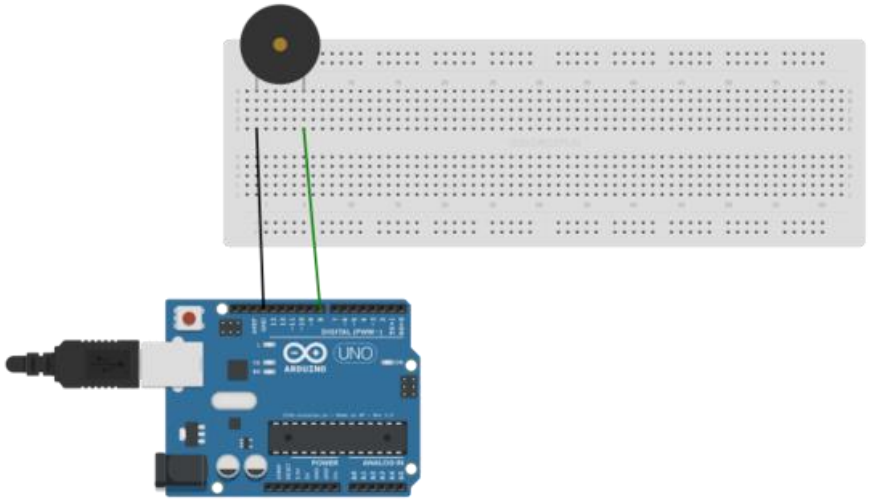
Piezo buzzers are simple devices that can generate basic beeps and tones. They work by using a piezo crystal, a special material that changes shape when voltage is applied to it. If the crystal pushes against a diaphragm, like a tiny speaker cone, it can generate a pressure wave which the human ear picks up as sound. Simple change the frequency of the voltage sent to the piezo and it will start generating sounds by changing shape very quickly.

Specification



SPECIFICATIONS		
Type	Unit	JF-1710
Rated Voltage(Square Wave)	Vp-p	12
Operating Voltage	Vp-p	1-30
*Rated Current(MAX)	mA	2
*Min Sound Output at 10 cm	dB	80
*Resonant Frequency	Hz	4000±500
Operating Temperature	℃	-20~+60
Housing Material		ABS
Weight	g	1

Image Set Up Diagram



Packing List

- 1x Breadboard
- 1x Arduino Uno
- 1x Piezo Buzzer
- 2x Jumper Wires

Hardware Interface/Setup

To connect a piezo buzzer you just need to connect one leg of the buzzer to your board ground, and another leg to a PWM-capable or analog-out output of your board. For other boards check the guide or documentation to see which pins support PWM output. Arduino uses an interrupt system for piezos, so you can use any pin.

- One leg of the piezo buzzer (or black wire) to board GND.
- The other leg of the piezo buzzer (or red wire) to board D8 (or any other PWM-capable output).

Example Code

This is example code for electronic piezo buzzer.

```
void setup()
{
}

void loop()
{
  tone(8, 440, 500);
  delay( 1000 );
}
```

Applications

1. Making beeps
2. Tones and alerts
3. As a sensor to detect fast movements like knocks
4. Use it under a drum pad to make a drum/crash sensor