



FC-04 Sensore

a cura di **Chiara Florini**

Dati

- **Nome del sensore** - FC-04
- **Funzione**- Sensore di suono a soglia regolabile
- **Breve descrizione** - Questo sensore rileva l'intensità del suono dell'ambiente circostante. Il sensore ha una soglia di rumore impostabile tramite una vite: se viene individuato un rumore che supera la soglia, viene inviato un segnale HIGH sul pin selezionato

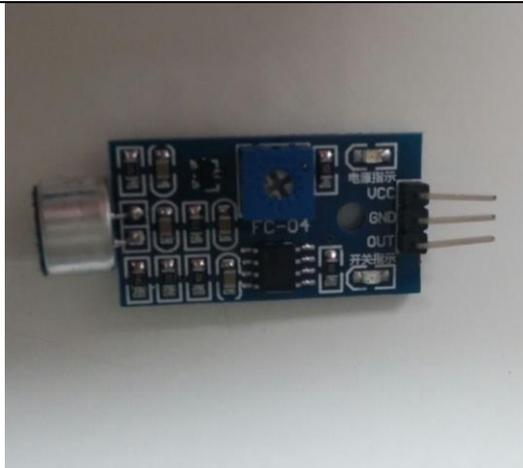


Figura 1-Fronte



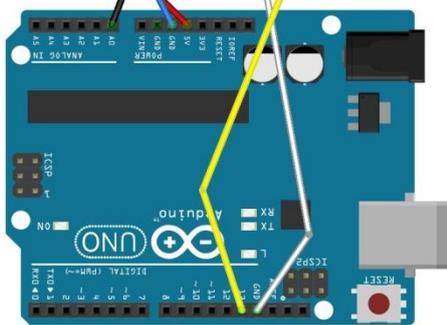
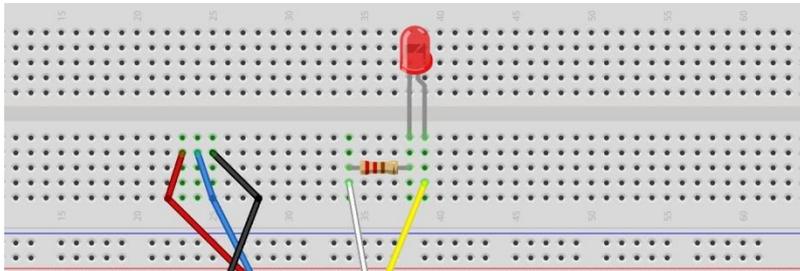
Figura 2-Retro





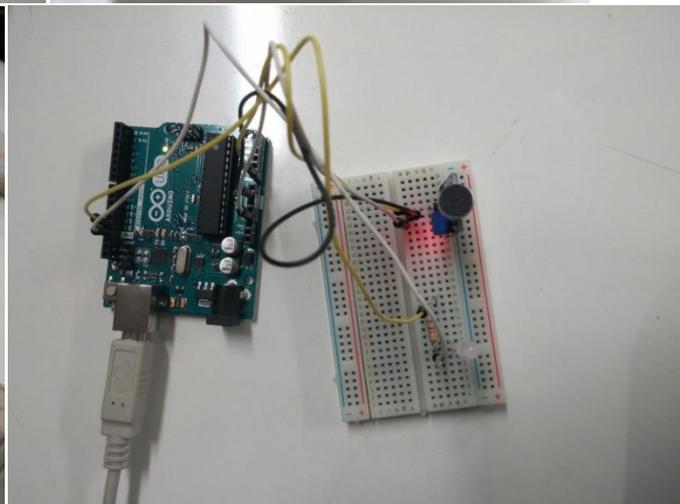
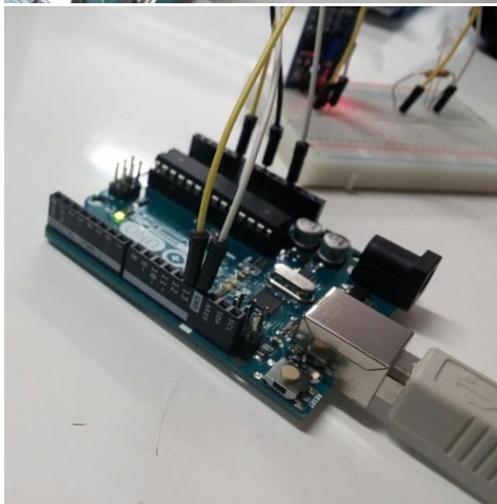
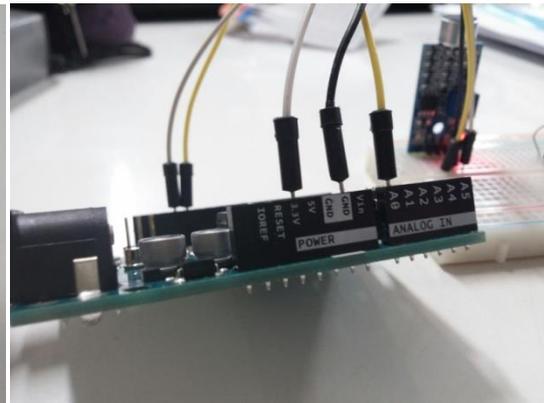
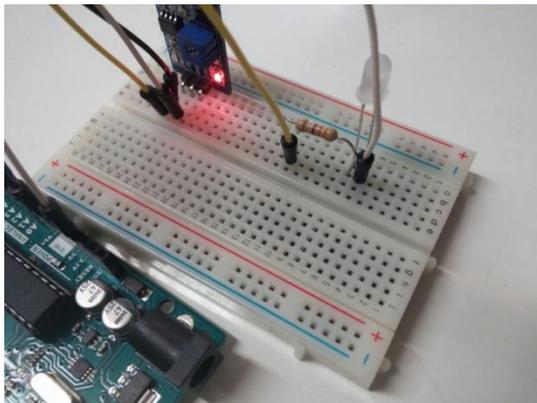
Il circuito

a) Circuito in Fritzing



Collegamenti con FC-04:
Cavo rosso collegato a VCC;
Cavo blu collegato a GND;
Cavo nero collegato a OUT.

b) Foto





Lo sketch

/*

This is the code to make a LED blink with the music.

You have to set the threshold so it's sensible enough to make the led blink.

You connect an LED to PIN13 and the Sound Sensor to Analog Pin 0

*/

```
int led = 13;
```

```
int threshold = 500; //Change This
```

```
int volume;
```

```
void setup() {
```

```
  Serial.begin(9600); // For debugging
```

```
  pinMode(led, OUTPUT);
```

```
}
```

```
void loop() {
```

```
  volume = analogRead(A0); // Reads the value from the Analog PIN A0
```

```
  /*
```

```
  //Debug mode
```

```
  Serial.println(volume);
```

```
  delay(100);
```

```
  */
```

```
  if(volume >= threshold){
```

```
    digitalWrite(led, HIGH); //Turn ON Led
```

```
  }
```

```
  else{
```

```
    digitalWrite(led, LOW); // Turn OFF Led
```

```
  }
```



}

Note Tecniche

- **Rivenditori** - RedBoole Eletronics
- **Costo** - € 3.35
- **Data Sheet** - [mettete il link al data sheet del sensore se lo conoscete](#)

Tutorials

 Vedi Experiment <http://www.danielandrade.net/2011/04/09/arduino-sound-sensor/>

 Vedi video <https://www.youtube.com/watch?v=4XILtK8ZAf0>

Applicazioni

<http://www.jucetechnology.com/wordpress/tag/sensori/>