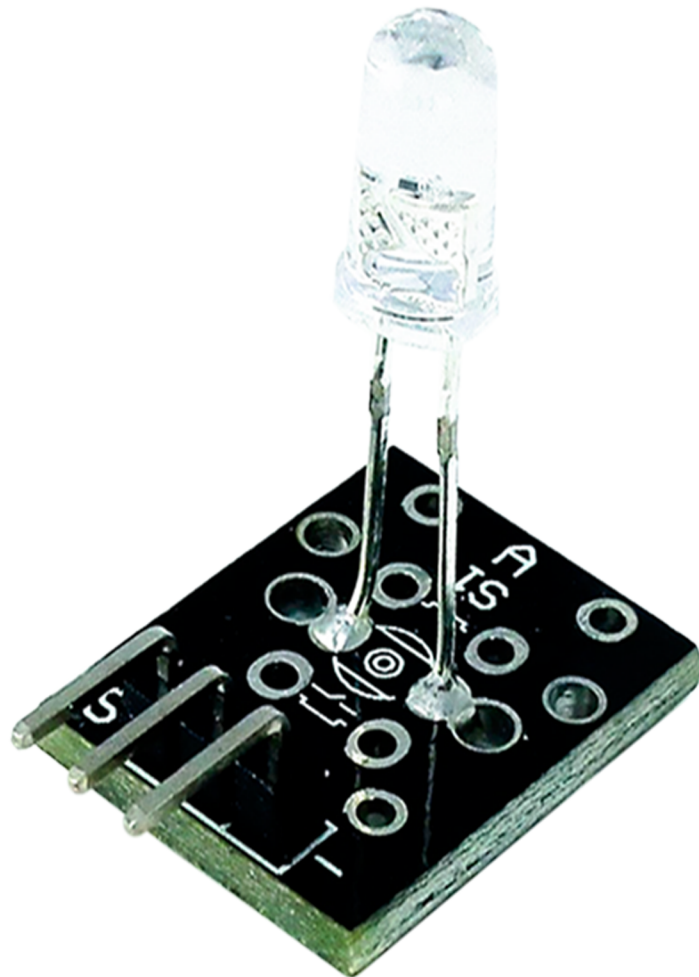


IR-Sende Modul



Contents:

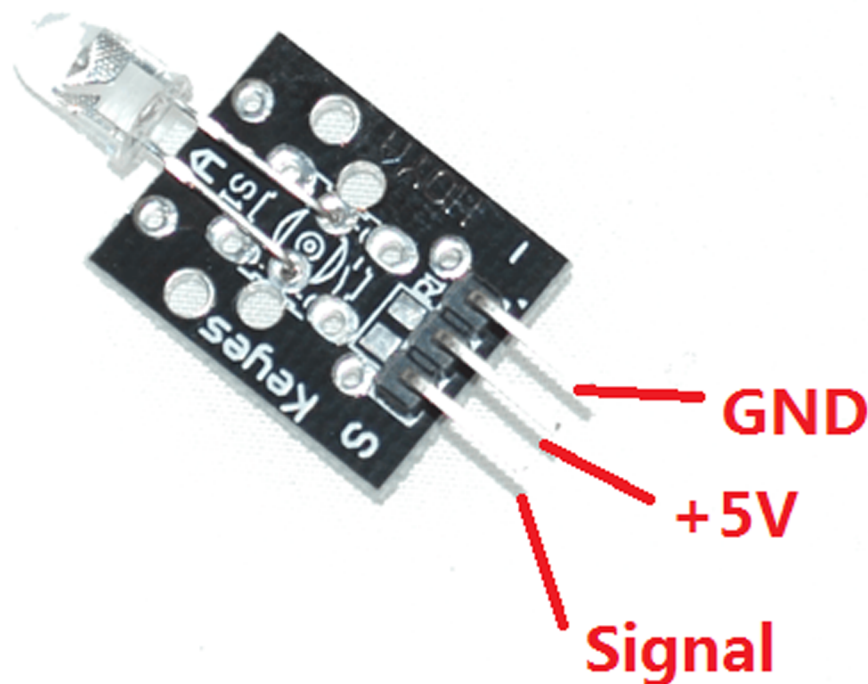
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1. Description

Arduino IR Transmitter Module Keyes KY-005, emits infrared light at 38kHz. An Infrared light emitting diode (IR LED) is a special purpose LED emitting infrared rays ranging 700 nm to 1 mm wavelength. Different IR LEDs may produce infrared light of differing wavelengths, just like different LEDs produce light of different colors. IR LEDs are usually made of gallium arsenide or aluminum gallium arsenide. In complement with IR receivers, these are commonly used as sensors.

The appearance of IR LED is same as a common LED. Since the human eye cannot see the infrared radiations, it is not possible for a person to identify if an IR LED is working. A camera on a cell phone camera solves this problem. The IR rays from the IR LED in the circuit are shown in the camera.

2. Pinout



3. Specifications

The KY-005 Infrared Transmitter Module consists of just a 5mm IR LED. It works together with the KY-022 IR receiver module. Compatible with popular electronics platforms like Arduino, Teensy, Raspberry Pi and ESP8266.

Operating Voltage: 5V

Forward Current: 30 ~ 60 mA

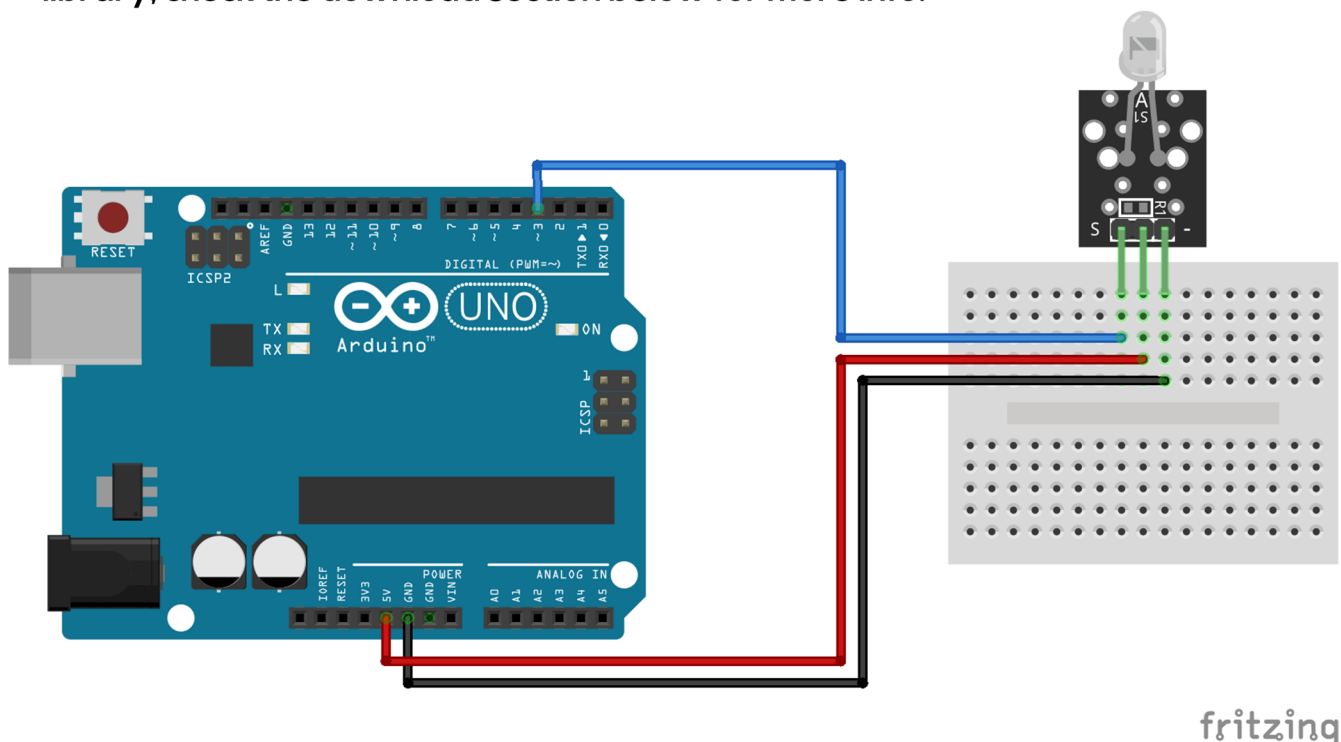
Power Consumption: 90mW

Operating Temperature: -25°C to 80°C [-13°F to 176°F]

Dimensions: 18.5mm x 15mm [0.728in x 0.591in]

4. Connection Diagram

Connect the Power line (middle) and ground (-) to +5 and GND respectively. Connect signal (S) to pin 3 on the Arduino UNO or pin 9 on the Arduino Mega. The pin number for the infrared transmitter is determined by the IRremote library, check the download section below for more info.



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5. Example Code

```
1  #include <IRremote.h>
2  IRsend irsend;
3
4  void setup()
5  {
6    Serial.begin(9600);
7  }
8
9  void loop()
10 {
11   for (int i = 0; i < 50; i++) {
12     irsend.sendSony(0xa90, 12); // Sony TV power code
13     delay(40);
14   }
15 }
```