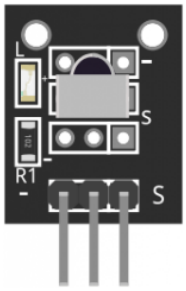
KY-022 INFRARED RECEIVER MODULE

Description

Arduino IR receiver module KY-022, reacts to 38kHz infrared light.



KY-022 Specifications

This module consists of a 1838 IR receiver, a 1kΩ resistor and a LED. It works together with the KY-005 IR transmitter module. Compatible with popular electronic platforms like Arduino, Raspberry Pi and ESP8266.

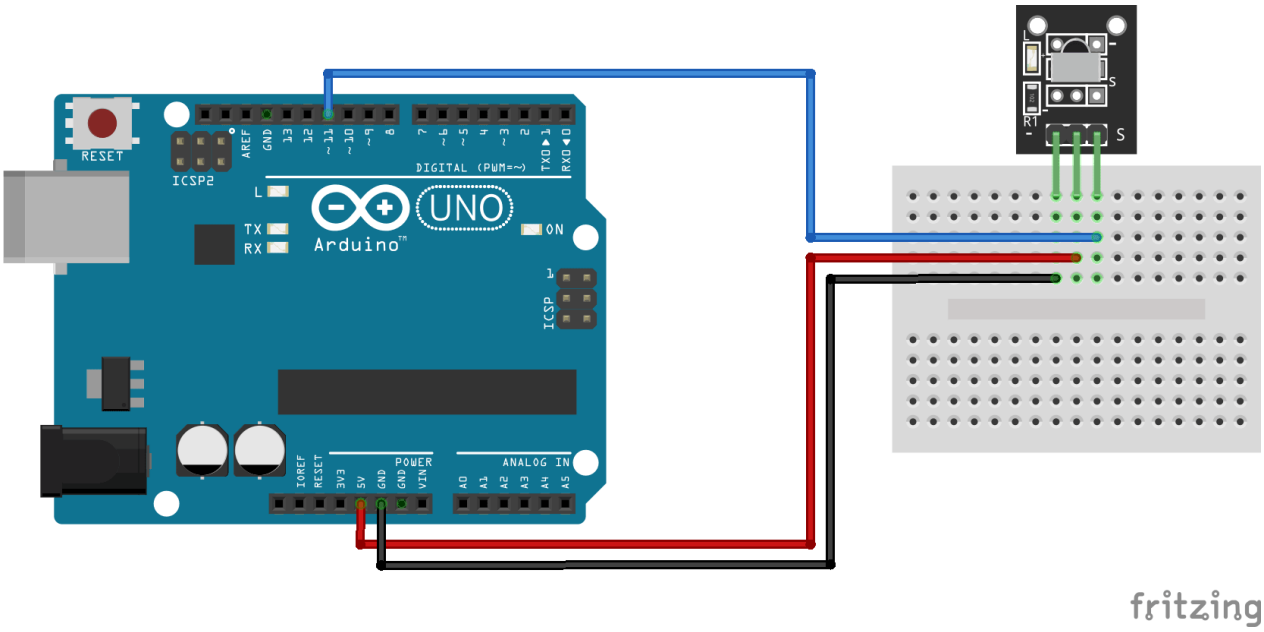
Operating Voltage	2.7 to 5.5V
Operating Current	0.4 to 1.5mA
Reception Distance	18m
Reception Angle	±45º
Carrier Frequency	38KHz
Low Level Voltage	0.4V

High Level Voltage	4.5V
Ambient Light Filter	up to 500LUX

KY-022 Connection Diagram

Connect the Power line (middle) and ground (-) to +5 and GND respectively. Connect signal (S) to pin 11 on the Arduino. Line un IR receiver and transmitter.

KY-012	Arduino
S	Pin 11
middle	+5V
-	GND



KY-022 Arduino Code

The following Arduino sketch uses the IRremote library to receive and process infra-red signals. Use the KY-005 IR transmitter module to serially send data to this module.

Links to the required libraries for KY-022 Arduino example sketch can be found in the Downloads section below.

```
#include <IRremote.h>

int RECV_PIN = 11; // define input pin on Arduino
IRrecv irrecv(RECV_PIN);
decode_results results; // decode_results class is defined in IRremote.h

void setup() {
        Serial.begin(9600);
        irrecv.enableIRIn(); // Start the receiver
}

void loop() {
        if (irrecv.decode(&results)) {
                Serial.println(results.value, HEX);
                irrecv.resume(); // Receive the next value
        }
        delay (100); // small delay to prevent reading errors
}
```

Downloads

- IRremote library by z3t0.
- 1838 IR receiver Datasheet.
- Fritzing Official Site.