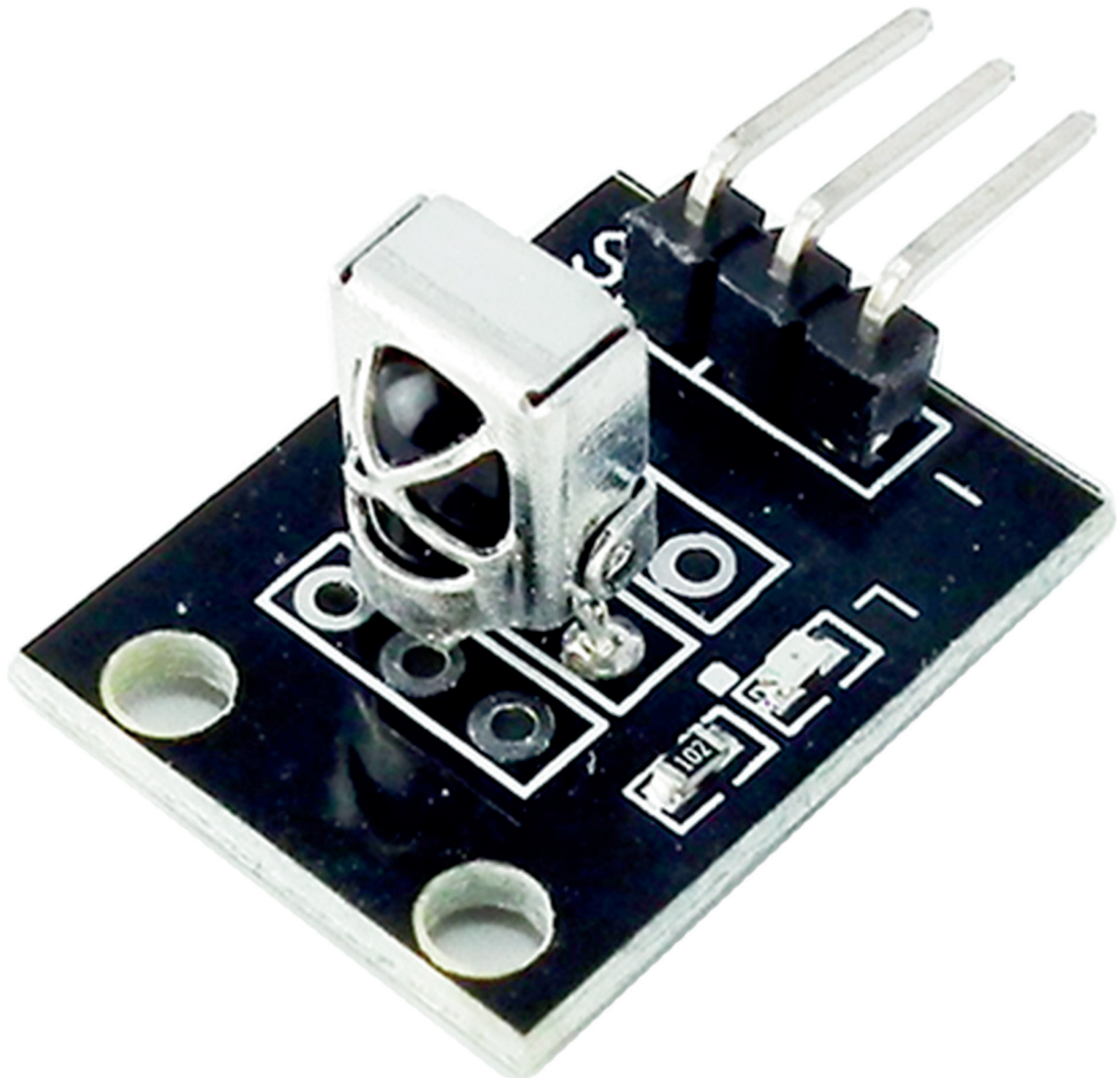


## KY-022 IR-Empfänger Modul Datenblatt



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## 1. Specifications

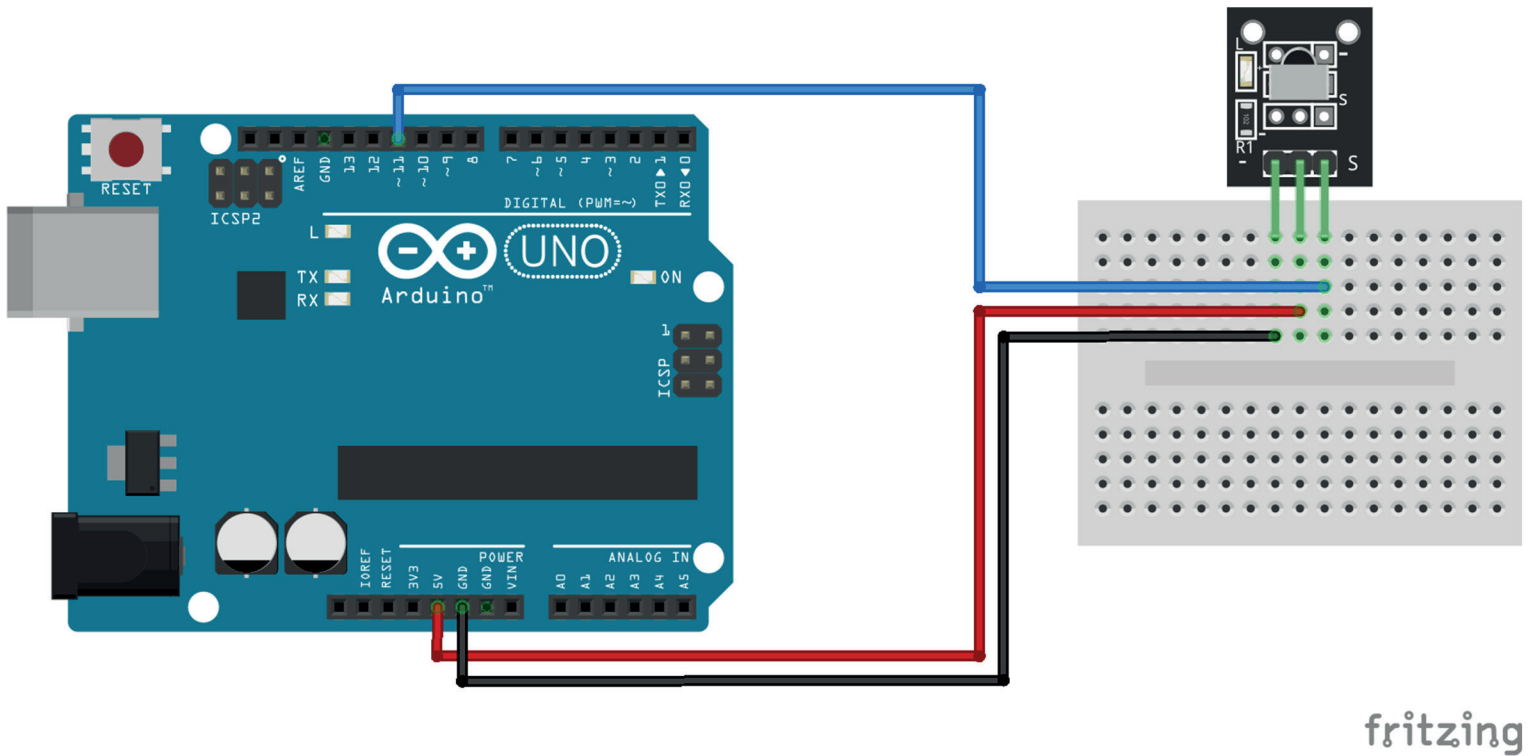
Arduino IR receiver module KY-022, reacts to 38kHz infrared light. This module consists of a 1838 IR receiver, a 1k $\Omega$  resistor and a LED. It works together with the KY-005 IR transmitter module. Compatible with popular electronic platforms like Arduino, Raspberry Pi and ESP8266.

Operating Voltage	2.7 to 5.5V
Operating Current	0.4 to 1.5mA
Reception Distance	18m
Reception Angle	$\pm 45^\circ$
Carrier Frequency	38KHz
Low Level Voltage	0.4V
High Level Voltage	4.5V
Ambient Light Filter	up to 500LUX

## 2. Schematic

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



### 3. Example 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.

```

1  #include <IRremote.h>
2
3  int RECV_PIN = 11; // define input pin on Arduino
4  IRrecv irrecv(RECV_PIN);
5  decode_results results; // decode_results class is defined in IRremote.h
6
7  void setup() {
8      Serial.begin(9600);
9      irrecv.enableIRIn(); // Start the receiver
10 }
11
12 void loop() {
13     if (irrecv.decode(&results)) {
14         Serial.println(results.value, HEX);
15         irrecv.resume(); // Receive the next value
16     }
17     delay (100); // small delay to prevent reading errors
18 }

```