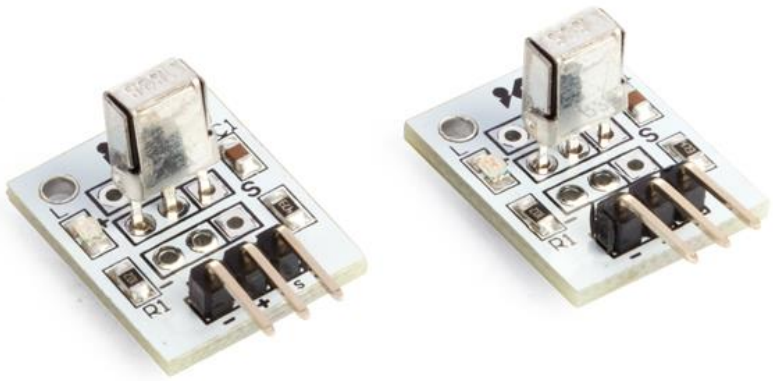
WHADDA
EXCITING ELECTRONICS

USER MANUAL

EN 1838 IR infrared 37.9 kHz receiver

WPI317



whadda.com

Introduction

To all residents of the European Union
Important environmental information about this product
This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules.
If in doubt, contact your local waste disposal authorities.

Thank you for choosing Whadda! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, do not install or use it and contact your dealer.

Safety Instructions

Read and understand this manual and all safety signs before using this appliance.

For indoor use only.

- This device can be used by children aged from 8 years and above, and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the device in a safe way and understand the hazards involved. Children shall not play with the device. Cleaning and user maintenance shall not be made by children without supervision.

General Guidelines

- Refer to the Velleman® Service and Quality Warranty on the last pages of this manual.
- All modifications of the device are forbidden for safety reasons. Damage caused by user modifications to the device is not covered by the warranty.
- Only use the device for its intended purpose. Using the device in an unauthorized way will void the warranty.
- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.
- Nor Velleman Group nv nor its dealers can be held responsible for any damage (extraordinary, incidental or indirect) – of any nature (financial, physical...) arising from the possession, use or failure of this product.
- Keep this manual for future reference.

What is Arduino®

Arduino® is an open-source prototyping platform based on easy-to-use hardware and software. Arduino® boards are able to read inputs – light-on sensor, a finger on a button or a Twitter message – and turn it into an output – activating of a motor, turning on an LED, publishing something online. You can tell your board what to do by sending a set of instructions to the microcontroller on the board. To do so, you use the Arduino programming language (based on Wiring) and the Arduino® software IDE (based on Processing). Additional shields/modules/components are required for reading a twitter message or publishing online. Surf to www.arduino.cc for more information.

Product Overview

This module (1838) is a miniaturized infrared receiver for remote control and other applications requiring improved ambient light rejection.

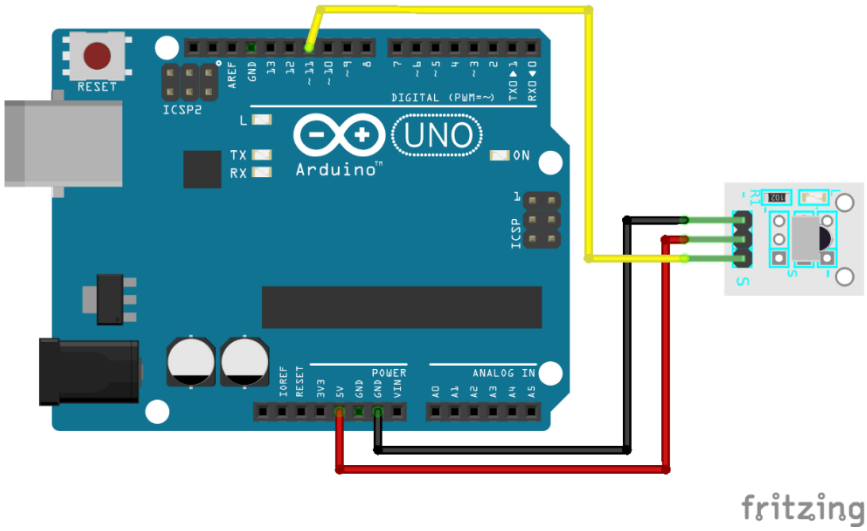
Specifications

- supply voltage: 3-5 VDC
- max. supply current: 1.5 mA
- B.P.F. center frequency: 37.9 kHz
- dimensions: 28 x 15 x 10 mm

Features

- photo detector and preamplifier in one package
- internal filter for PCM frequency
- inner shield, good anti-interference ability
- high immunity against ambient light
- improved shielding against electric field disturbance
- 3.0 V or 5.0 V supply voltage; low power consumption
- TTL and CMOS compatibility

Connection



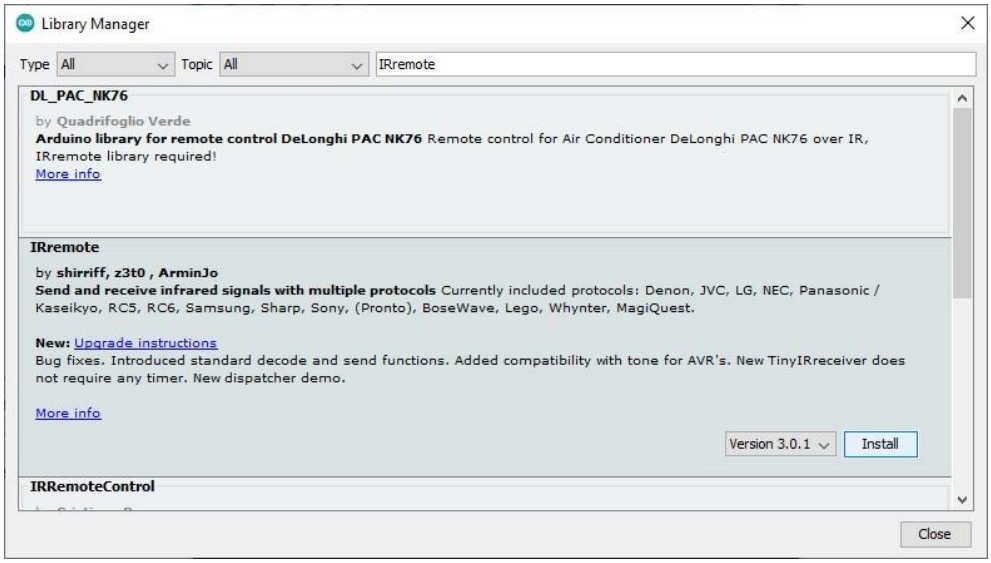
Arduino®		WPM316
GND	▶	-
+5 V	▶	+
signal	▶	S

Example

Use the Arduino® IDE library manager (Sketch > Include Library > Manage Libraries...) to install the IR remote library by shiriff, z3t0 and ArminJo.

Once installed, open the IRreceiveDemo sketch by going to File > Examples > IRremote >IRreceiveDemo.

Once uploaded, open the serial monitor (set to 115200 baud), point an IR remote to it (such as a TV remote) and press some buttons. You should see the IR commands showing up on the serial monitor.


Library Manager
Type All
Topic All
IRremote
DL_PAC_NK76
by Quadrifoglio Verde
Arduino library for remote control DeLonghi PAC NK76 Remote control for Air Conditioner DeLonghi PAC NK76 over IR, IRremote library required!
More info
IRremote
by shirriff, z3t0 , ArminJo
Send and receive infrared signals with multiple protocols Currently included protocols: Denon, JVC, LG, NEC, Panasonic / Kaseikyo, RC5, RC6, Samsung, Sharp, Sony, (Pronto), BoseWave, Lego, Whynter, MagiQuest.
New: Upgrade instructions
Bug fixes. Introduced standard decode and send functions. Added compatibility with tone for AVR's. New TinyIRreceiver does not require any timer. New dispatcher demo.
More info
Version 3.0.1
Install
IRRemoteControl
Close

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