

Hat NCIR

SKU:U061



Description

Hat NCIR is a single-point infrared temperature measurement sensor compatible with StickC. Built-in infrared sensor **MLX90614**, capable of measuring the surface temperature of the human body or other objects. Unlike most contact-type sensors, this sensor detects temperature by measuring the infrared light waves emitted from distant objects without physical contact, which gives it a wider measuring range than ordinary sensors: -70°C to $+380^{\circ}\text{C}$. With a field of view (FOV) of 90° , it can conveniently and quickly measure the average temperature at a given location.

Features

- MLX90614ESF-AAA
- I2C address (0x5A)
- Object temperature measurement range: $-70^{\circ}\text{C} \sim 380^{\circ}\text{C}$
- Ambient temperature measurement range: $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$
- Measurement accuracy at room temperature: $\pm 0.5^{\circ}\text{C}$
- Field of view: 90°
- Development Platform: Arduino, UIFlow (Blockly, Python)

Includes

- 1 x Hat NCIR
- 1 x Double-Sided Tape

Applications

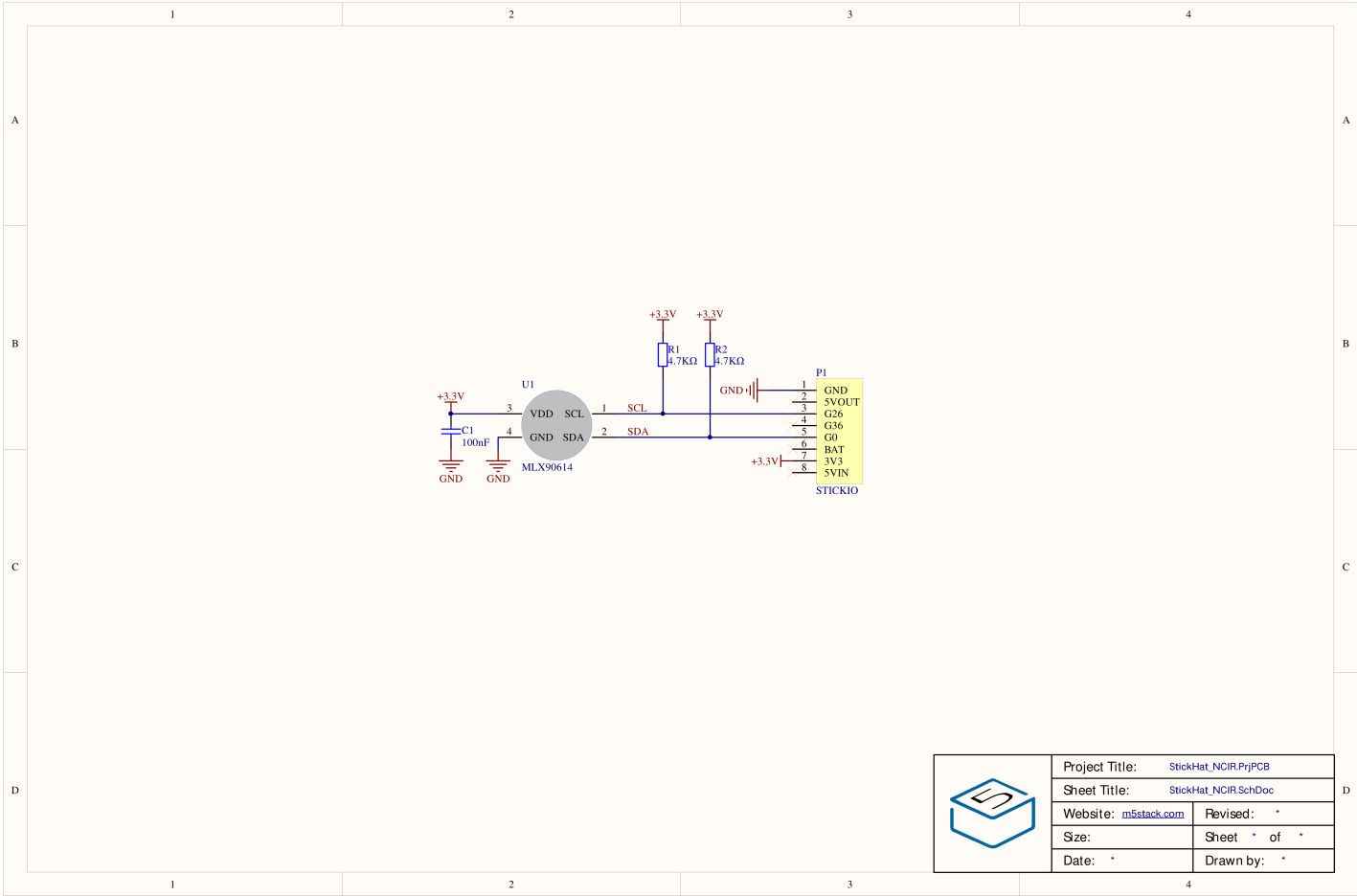
- Human body temperature measurement
- Object (biological) motion detection

Specifications

Specification	Parameter
Communication Interface	I2C @ 0x5A
Product Size	24.9 x 24.0 x 13.7mm
Product Weight	5.2g
Package Size	138.0 x 93.0 x 13.0mm
Gross Weight	7.6g

Schematics

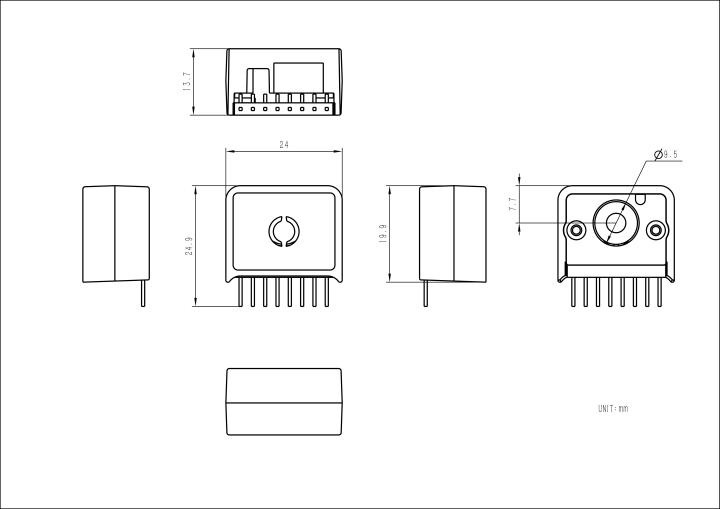
- [Hat NCIR Schematics PDF](#)



PinMap

M5StickC	G0	G26	3.3V	GND
HAT NCIR	SDA	SCL	3.3V	GND

Model Size



Structure

- [Hat NCIR Structure Files](#)

Datasheets

- [MLX90614 Datasheet](#)

Softwares

Arduino

- [Hat NCIR Example](#)

UiFlow1

- [Hat NCIR UiFlow1 Docs](#)

UiFlow2

- [Hat NCIR UiFlow2 Docs](#)

Easyloader

Easyloader	Download	Note
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Video

