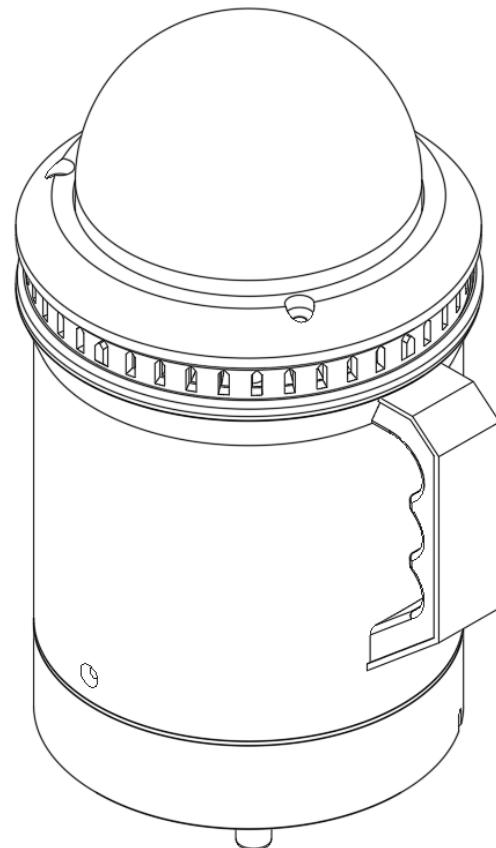


Technical Drawing &
Component Specifications
V2.0

Dec 2025

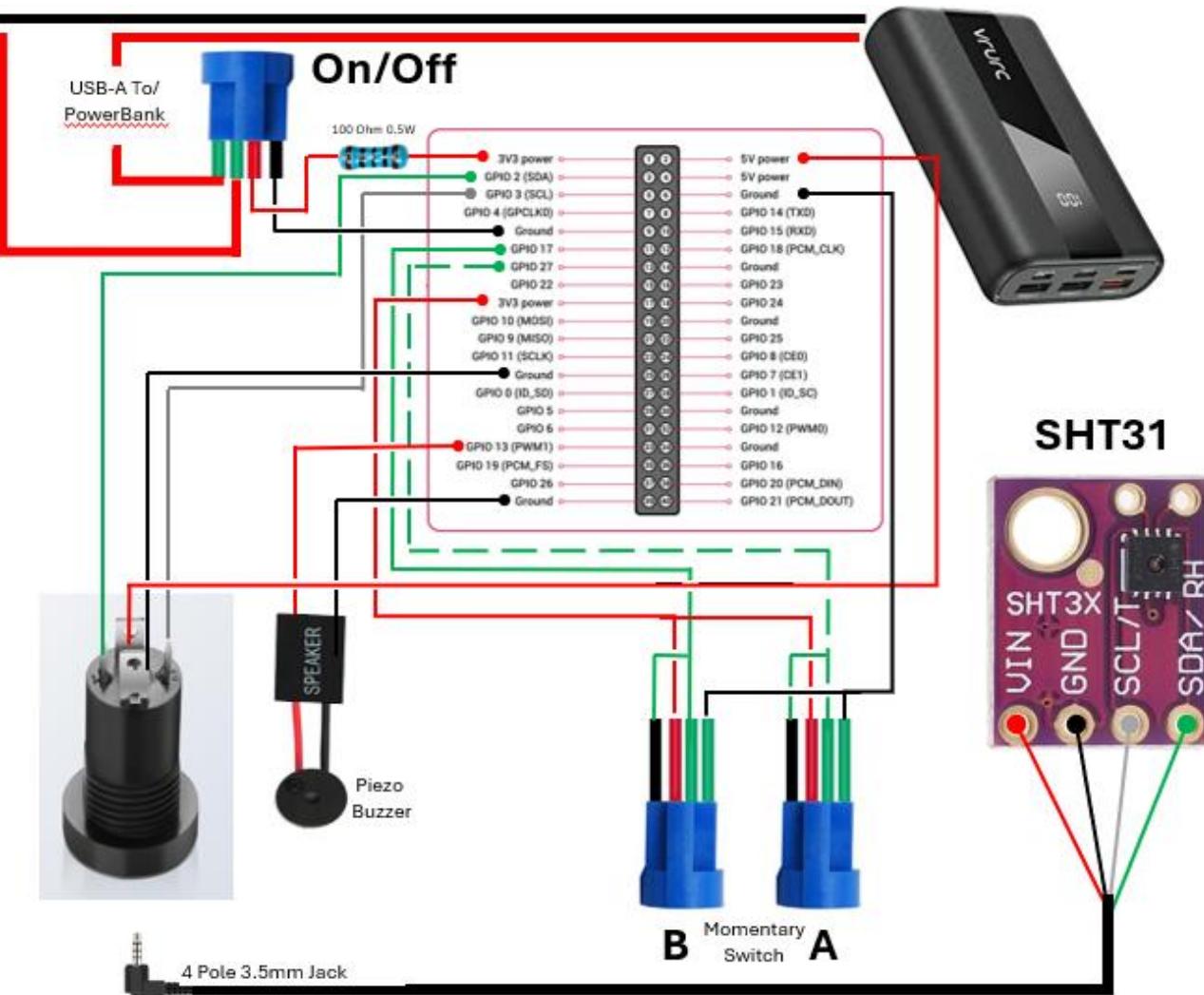
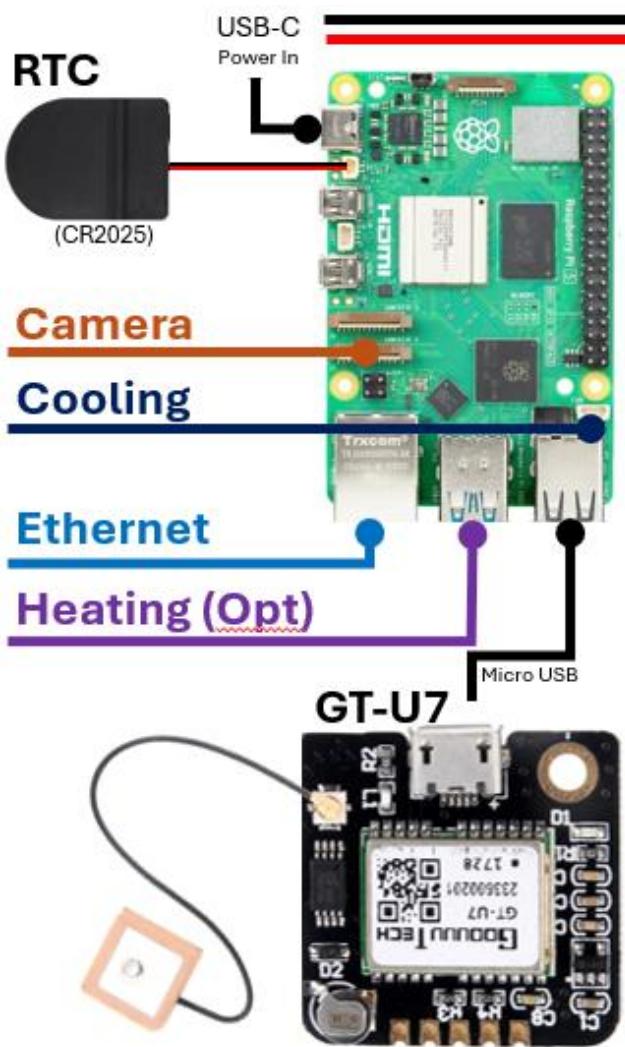
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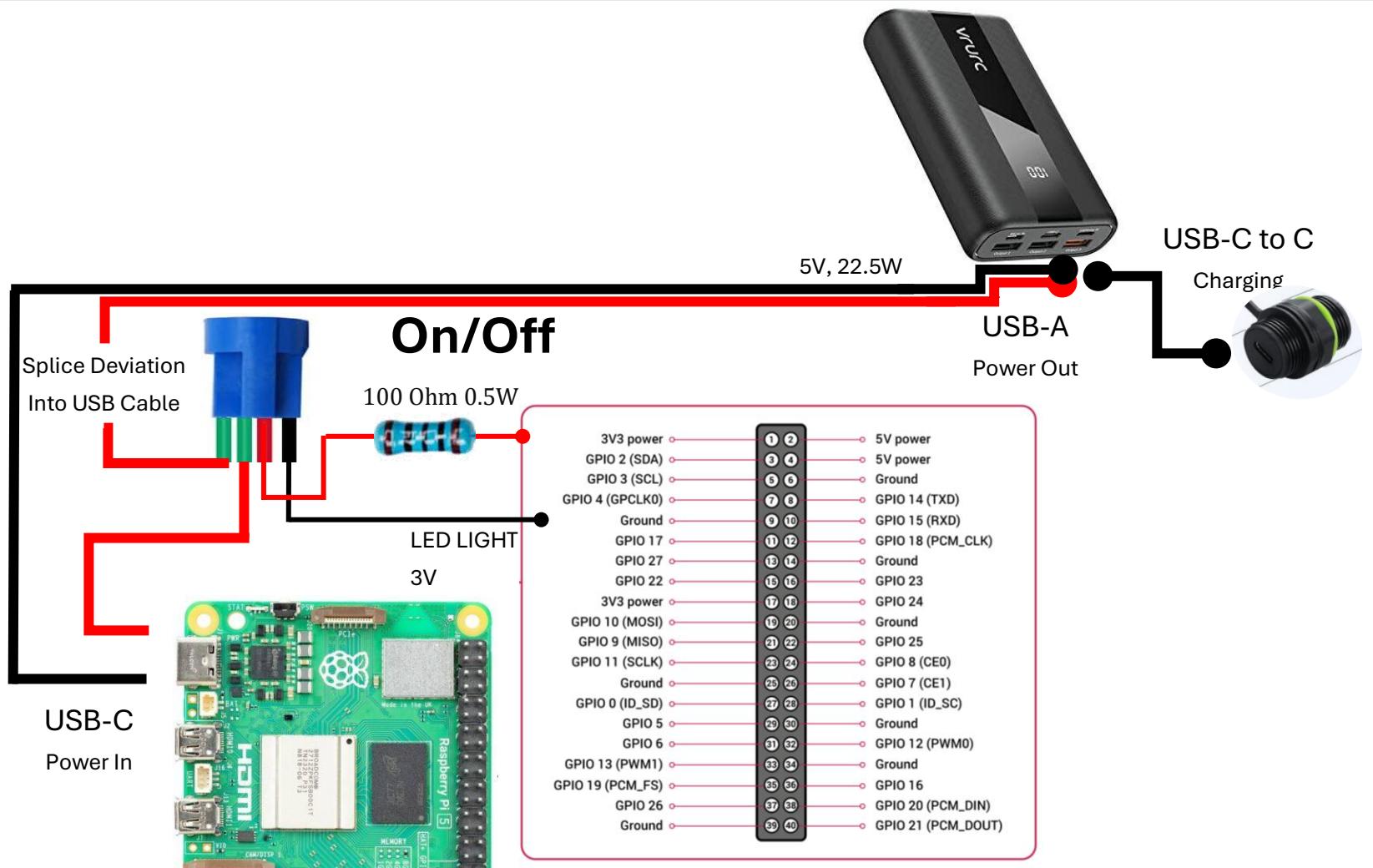


Revisions:

19-12-25 Revised Harnesses to limit Current Draw & Loader on GPIO

Raspberry Pi5

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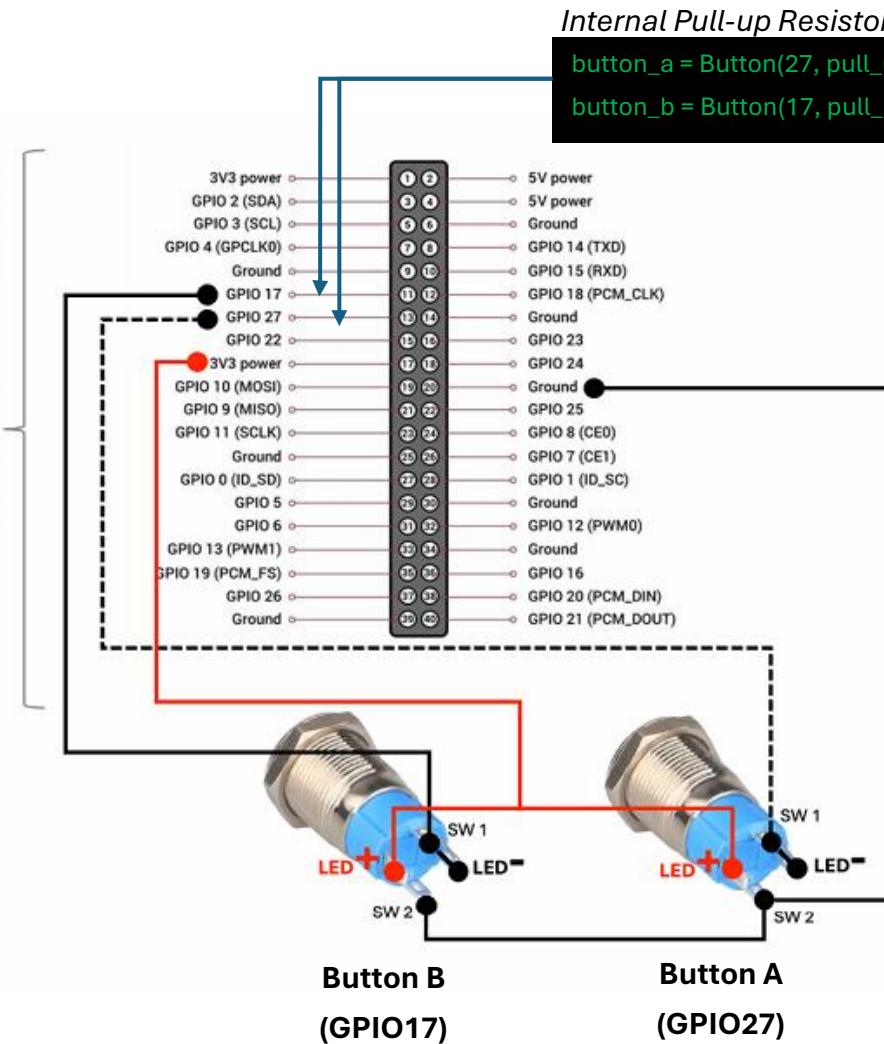
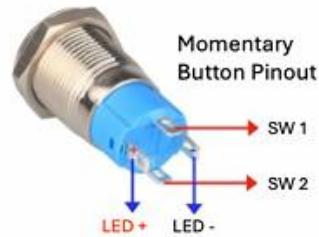
Revisions:

19-12-25 Add External Resistor to limit Current Draw from GPIO

Power Harness

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Schematics:



Revisions:

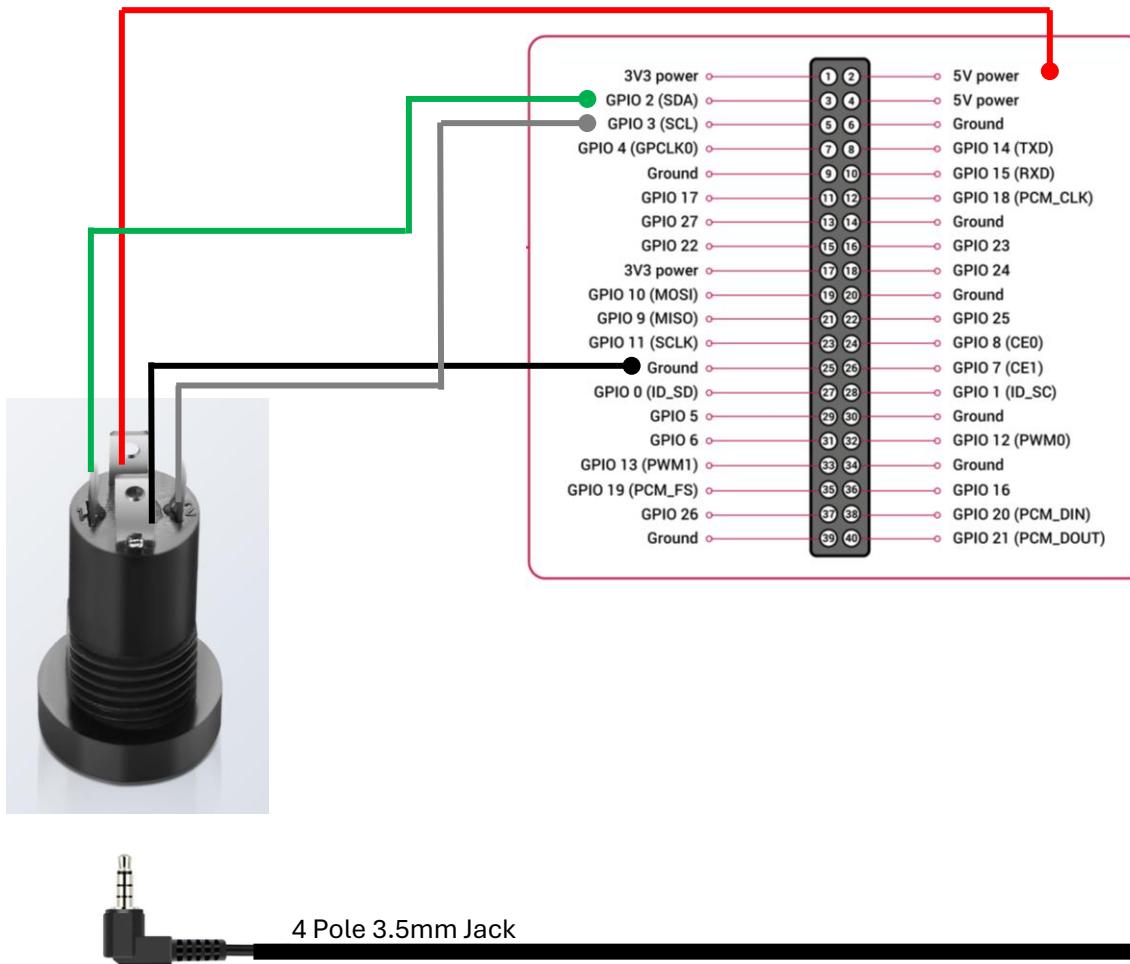
19-12-25 Changed Harness to align to GPIO 3.3V Limits

Button Harness

Thanks to
[@Aemideus 392744](#)

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SHT31



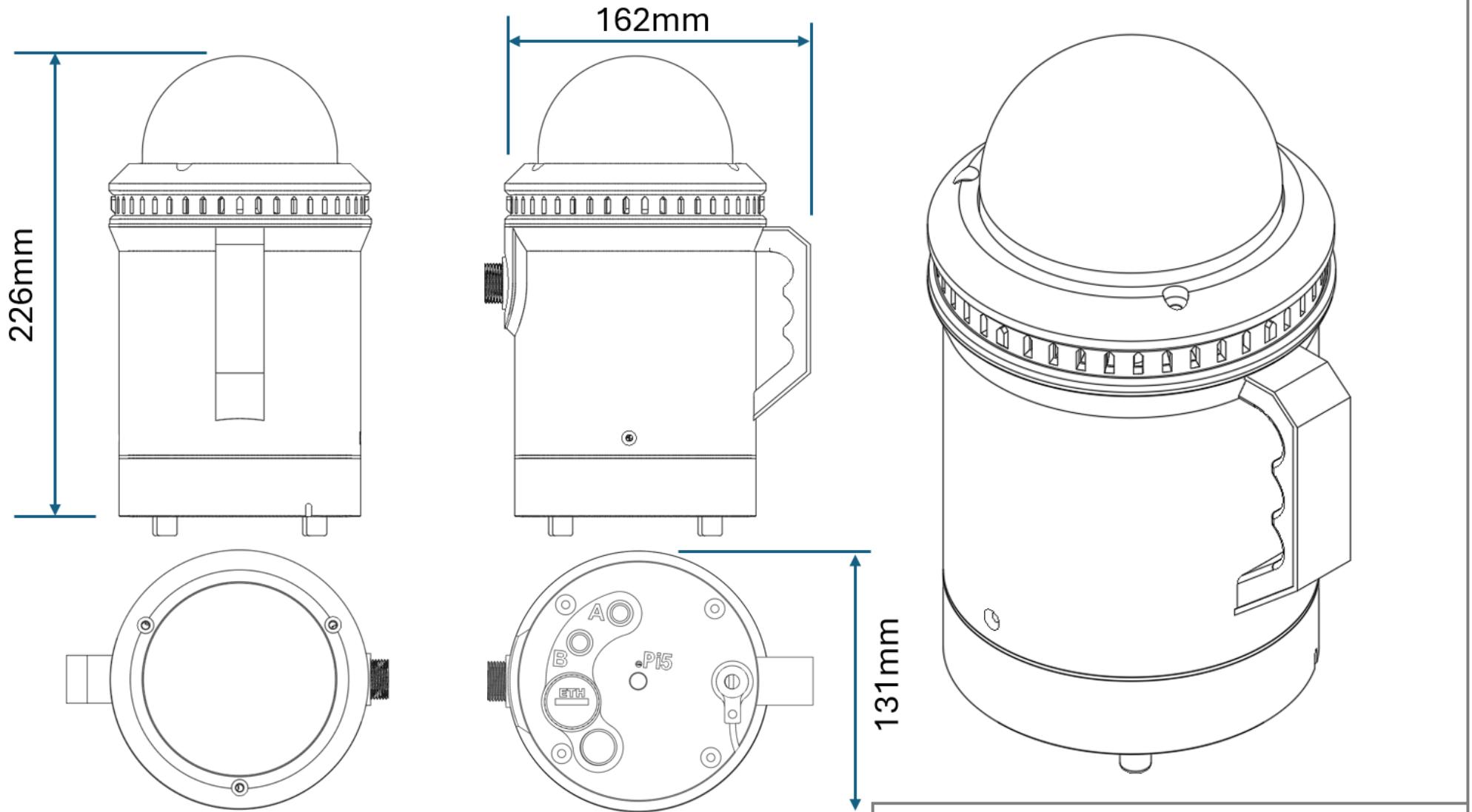
Revisions:

19-12-25 Changed to 5V or free 2nd 3.3V Pin for Button LED

SHT31 Harness

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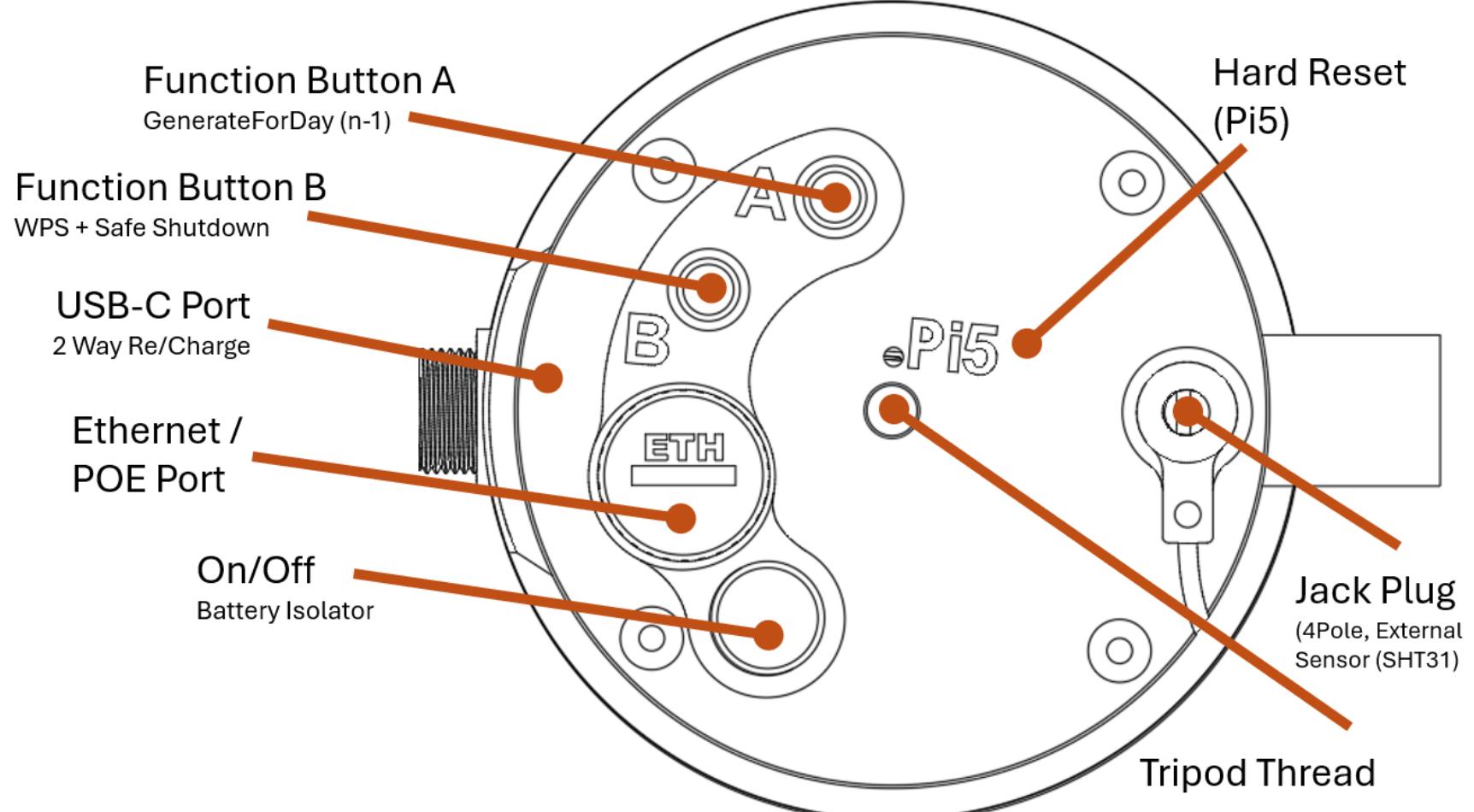
Dimensions



Dimensions

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Functions



Functions

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Components

CS-Mount Lens

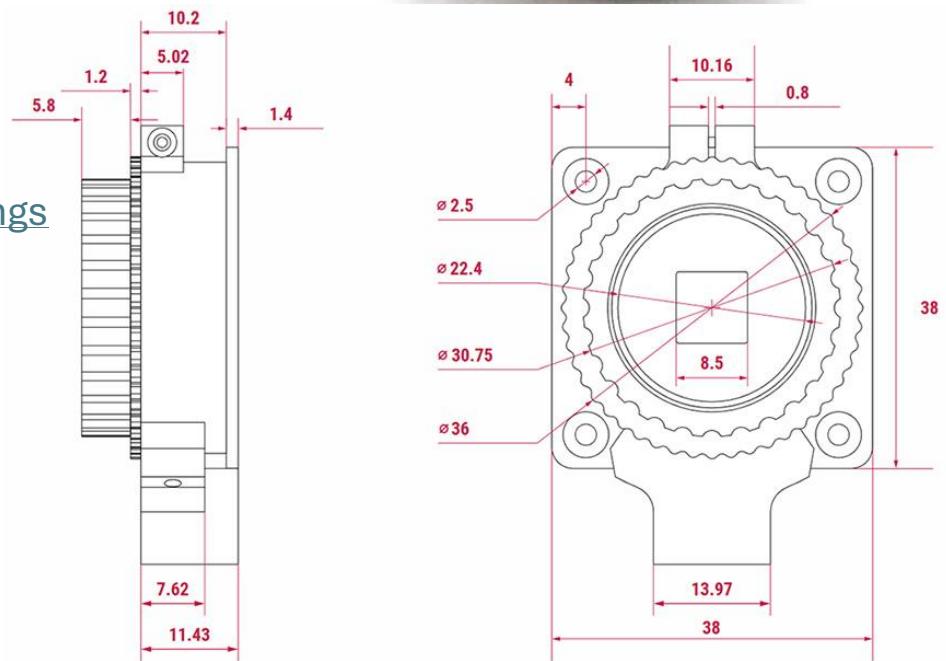
Characteristic 2.5 or 2.8mm for 150-170deg FOV [AliExpress](#)



HQ Camera Mount

Mark: Raspberry [Reichelt](#)

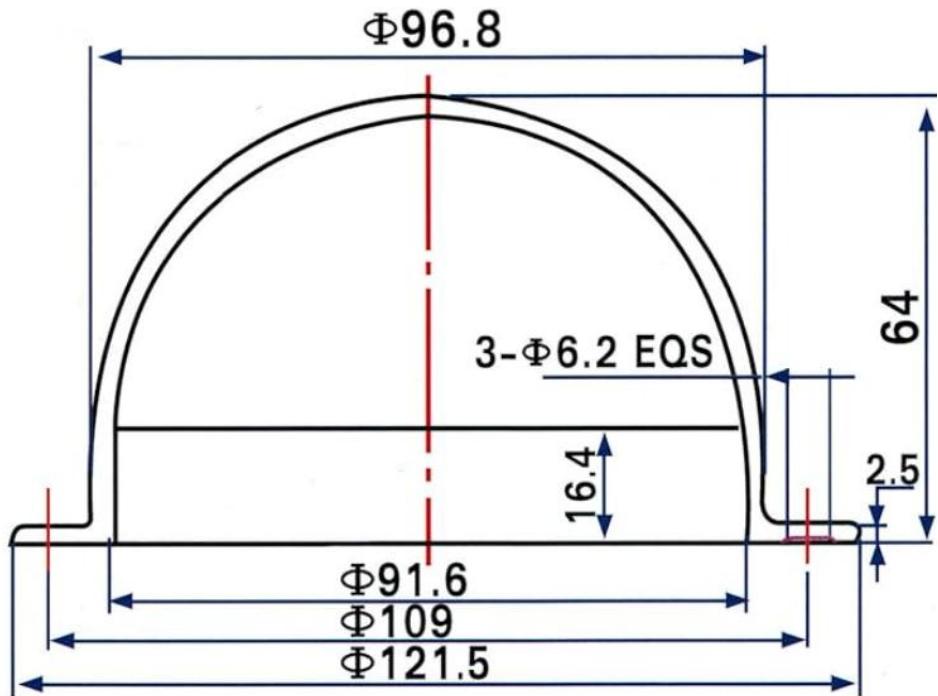
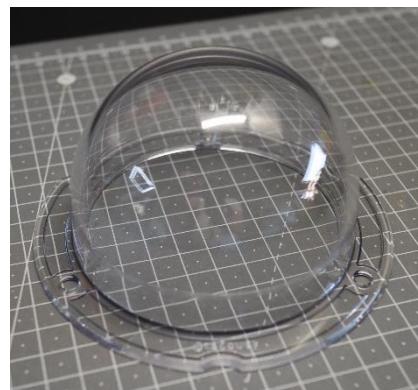
[CS-Mount_HQ_Camera_Mechanical_Drawings](#)



Acrylic Dome

Brand: JMC [Amazon](#)

Characteristic 3.5Inch Dome



Power Bank

Make: Vrurc [Amazon \(VRURC Mini Power bank\)](#)

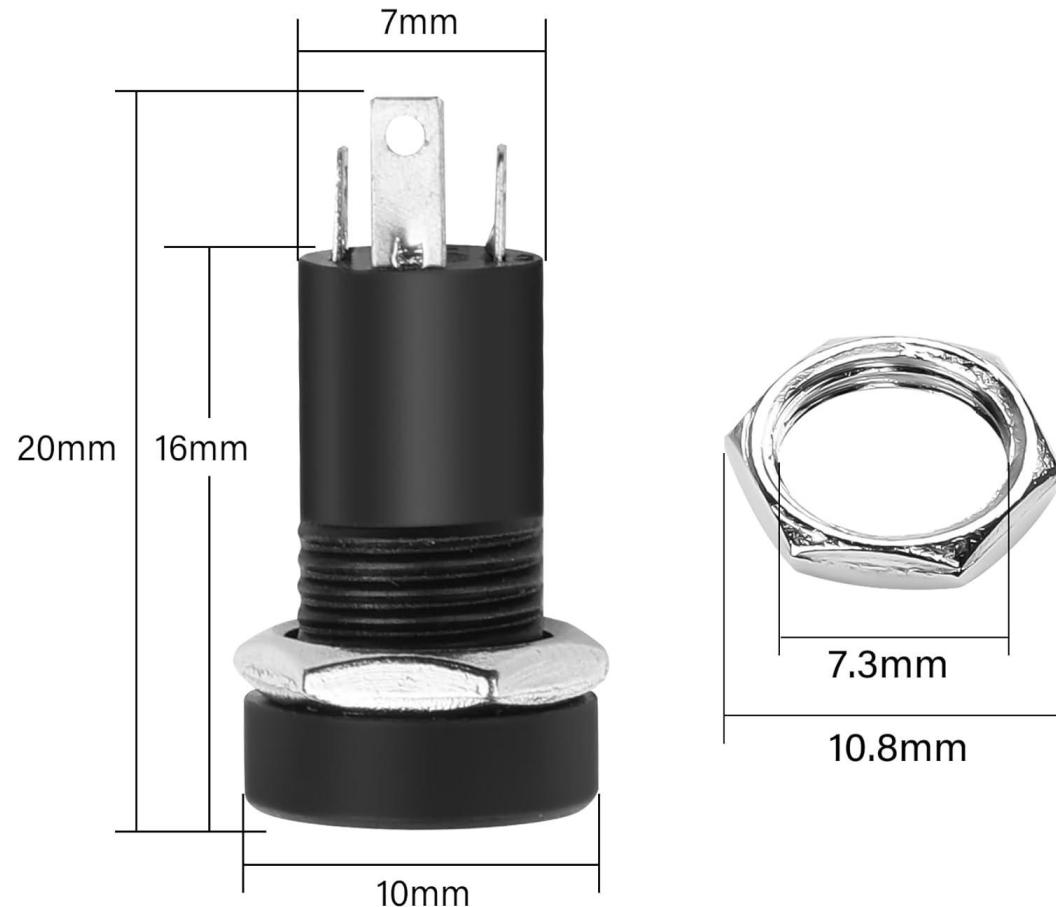
Characteristic: 20.000mah



Jack plug (female)

Distributor: PNGKNYOCN - [Amazon](#)

Characteristic: 4 Pole – Requires 4 Pole Jack Plug



Power Switch (3-9v)

Distributor: Gebildet [Amazon](#)

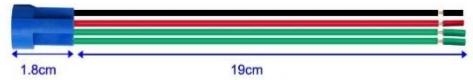
Characteristic: 16mm Thread



Momentary Switch (3-9v)

Distributor: Gebildet [Amazon](#)

Characteristic: 12mm Thread



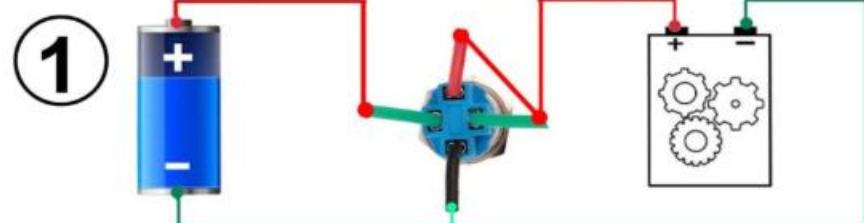
Led light on only when you press button

Lumi re LED allum e uniquement lorsque vous appuyez sur le bouton

LED-Licht nur an, wenn Sie die Taste dr cken

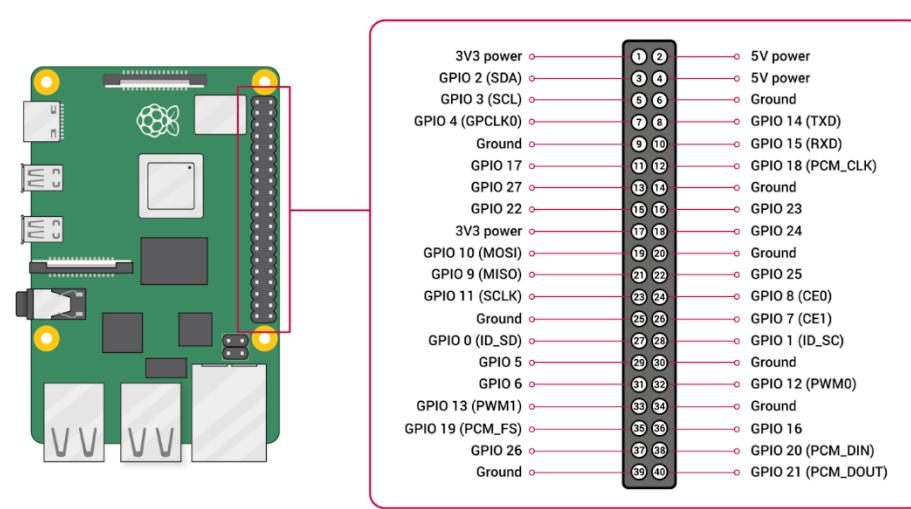
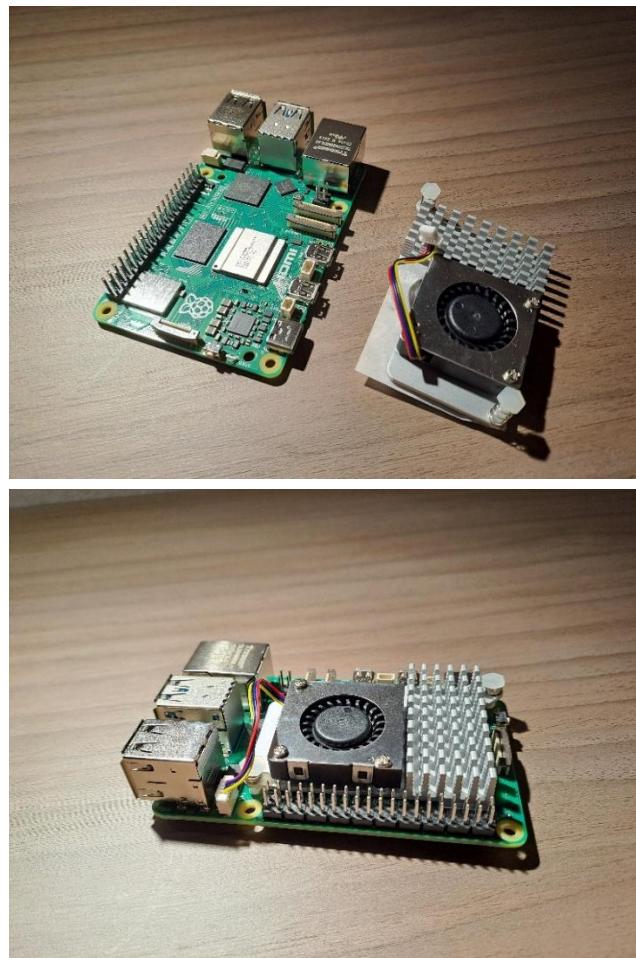
Luce led accesa solo quando si preme il pulsante

Luz LED encendida solo cuando presiona el bot n



Raspberry Pi5 & Active Cooling Module

Reichelt (DE)



<https://datasheets.raspberrypi.com/rpi4/raspberry-pi-4-mechanical-drawing.pdf>

Waterproof USB-C Pass-thru (only the core section required)

Distributor: PNGKNYOCN [Amazon](#)

Characteristic: 19mm Thread



Ethernet Port Pass-Thru

Distributor: Greluma [Amazon](#)

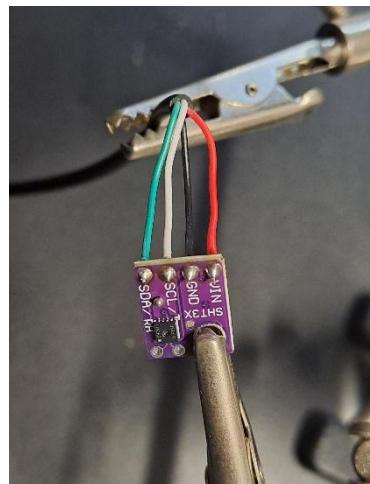
Characteristic: 24mm Diameter



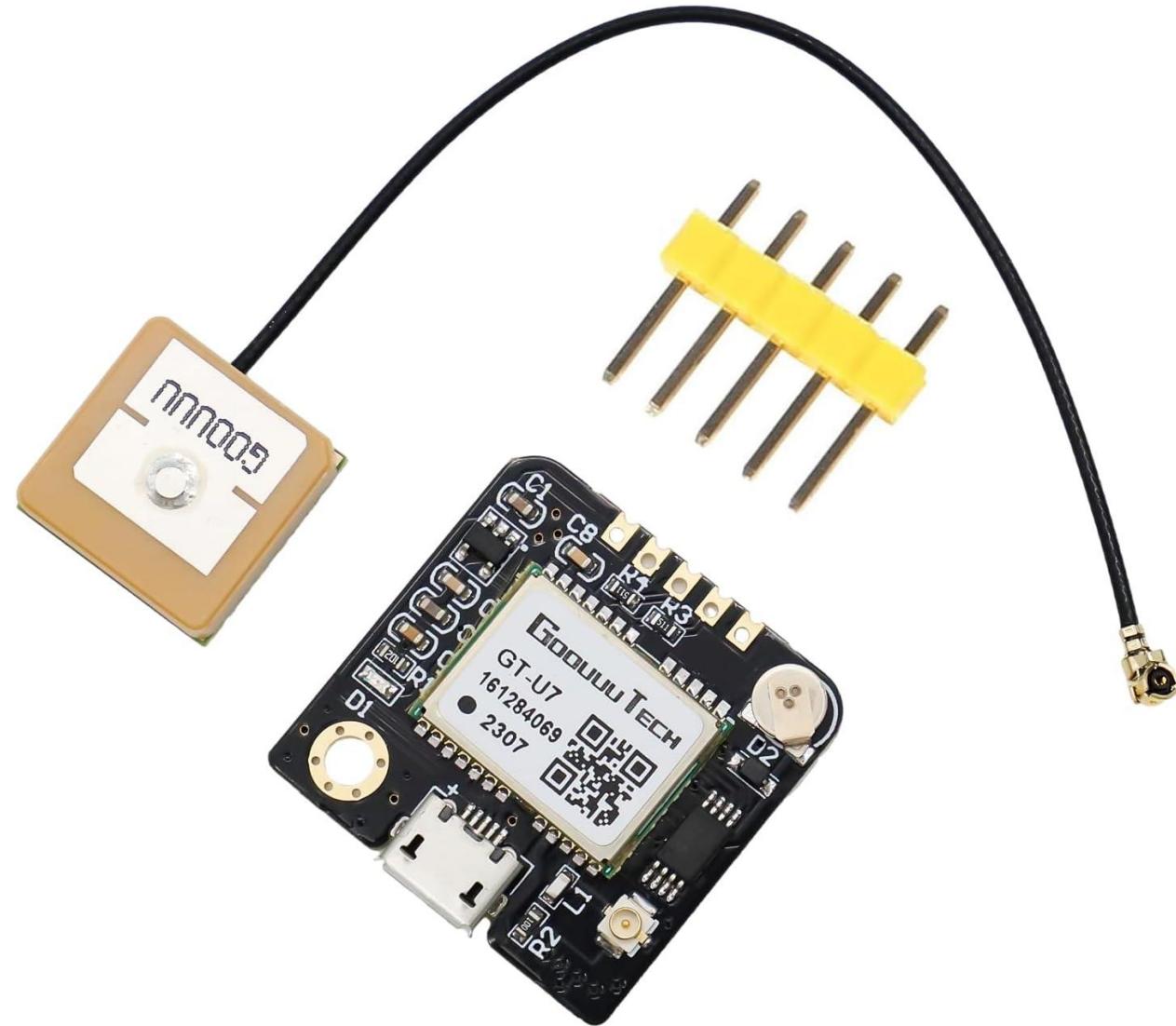
SHT31 Humidity and Temperature Sensor

Different Options exist depending on your circumstance.
Sensors with 4 poles can be wired to the Jack Plug and
programmed for Raspberry.

[Amazon](#)



GT-U7 GPS Modulo



1/4-20 Tripod Threaded Inserts

Mark: Ruthex [Amazon](#)

Characteristic: 7.9-8mm hole – two lengths available
(both compatible)

M3 Threaded Inserts

Characteristic: 3.9-4.0mm width

Mark: Ruthex [Amazon](#)

Specification: M3

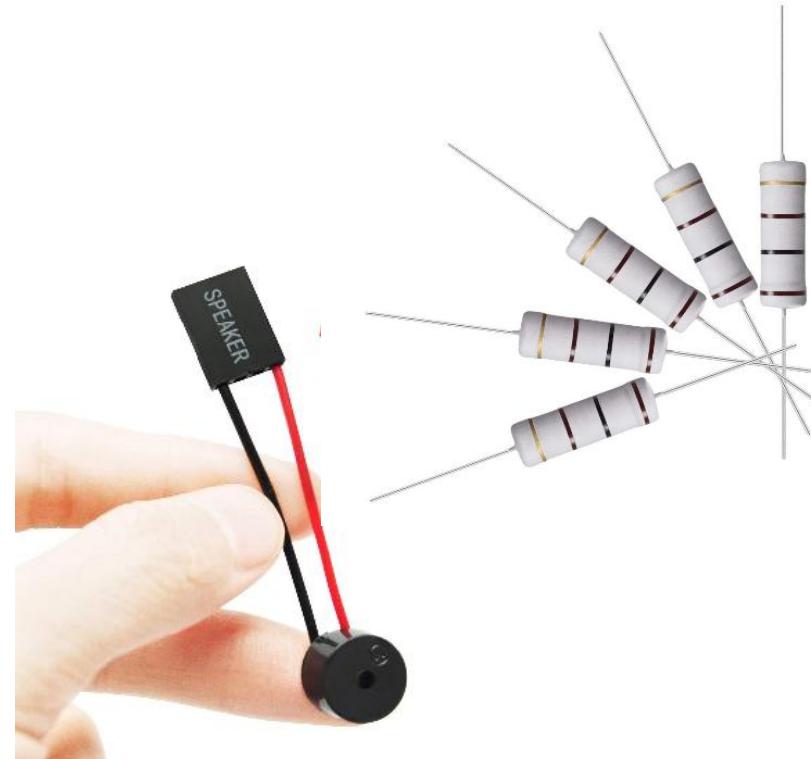


Metal Oxide Film Resistors

Distributor: PATIKIL [Amazon](#)

Characteristic: 100 Ohm 5W

[Amazon.it](#)



Piezo Buzzer

Distributor: ICQUANZX [Amazon](#)

RTC External Battery

Distributor: ZDE [Amazon](#)

Characteristics: Coin Battery CR2025

