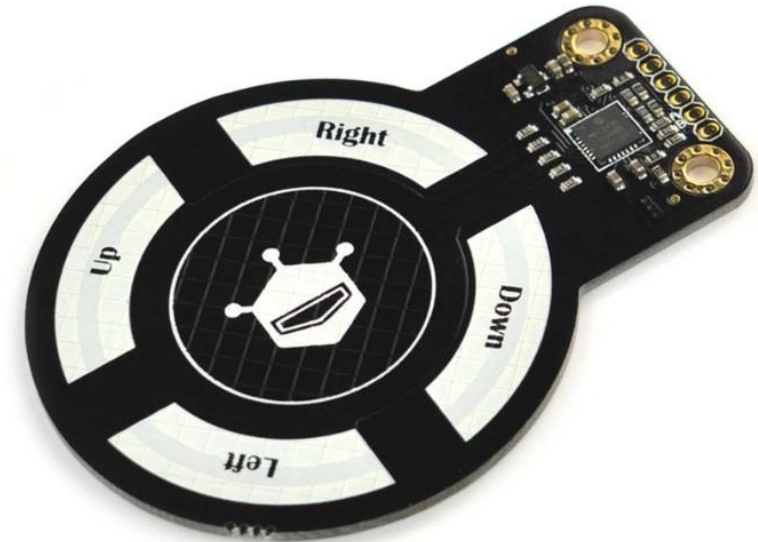


3D Gesture Sensor (Mini) For Arduino

Overview

The DFRobot 3D gesture sensor is an interactive sensor that integrates 3D gesture recognition and motion tracking. This sensor can be used to detect clockwise/counterclockwise rotation and movement directions. It is designed based on Microchip patent GestIC® technology with electric near field sensing technology, including 3D gesture input sensing system and advanced 3D signal processing unit. And its effective detection range is 0-10cm. This sensor can be applied to various interactive art projects. Just think about it, with a wave of your hands, the lamp turns on, music turns up. Everything is at your fingertips!



Order Code

Order Code	Brand	Description
E37003-001	DFRobot	3D Gesture Sensor (Mini) For Arduino

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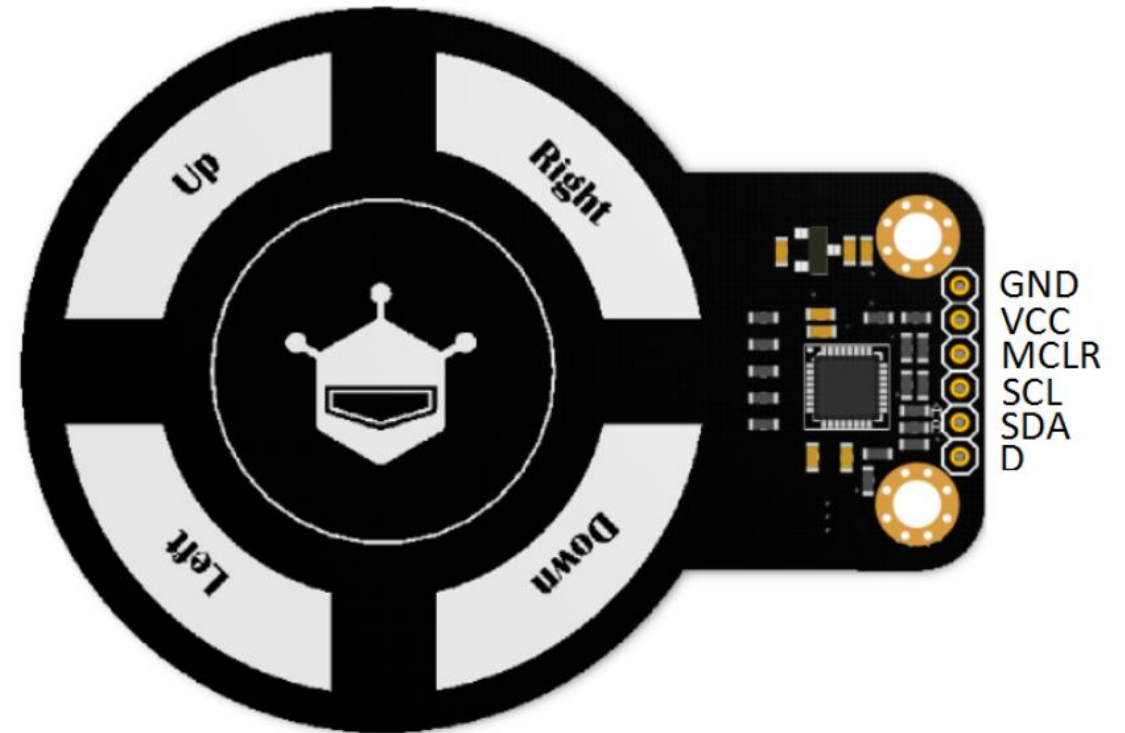
Specification

- Operating Voltage: 3.3~5 V
- Interface Type: I2C
- I2C Address: 0x42
- Gesture Detection Range: 5 cm
- Distance Induction Range: 10 cm
- Dimensions : 72 × 54 mm / 2.83 × 2.12"
- Operating Temperature: - 20 °C ~ + 85 °C
- Spatial Resolution: 150 dpi

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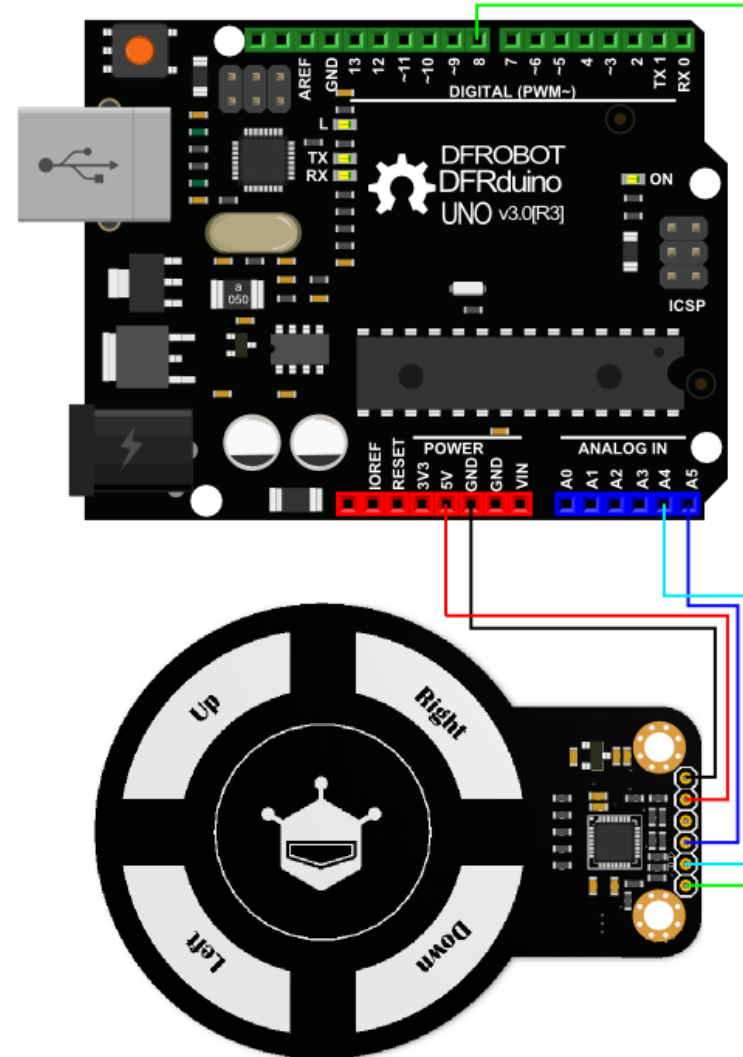
Board Overview

Num	Label	Description
1	GND	DND
2	VCC	VCC(5 V)
3	MCLR	Sensor Reset(Low Level On)
4	SCL	I2C clock signal
5	SDA	I2C data signal
6	D	Digital IO



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Connection Diagram



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Tutorial

- Download and install the [3D Gesture Sensor mini Library](#). ([About how to install the library?](#))
- This code will recognize the direction of gestures: up, down, left, right, clockwise and counterclockwise, [click here to download sample code](#)

Results

When you use your hand to move up and down or clockwise and counterclockwise, the serial port will output the corresponding string.

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Revision History

Date	Revision	Change description
30/10/2025	1.0	Initial release