

Gravity: Digital 360° Tilt Sensor for Arduino

DFR0830

Product Overview

03-24-2023

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

DFRobot Gravity: Digital 360° Tilt Sensor for Arduino contains a metal ball that moves along the special internal structure on the effect of gravitation force to make a connection or disconnection. This sensor can be used as a simple tilt switch and to realize various fun interactive works with an Arduino expansion board. The tilt sensor adopts a cylindrical design to allow inclination detection in 360° directions.

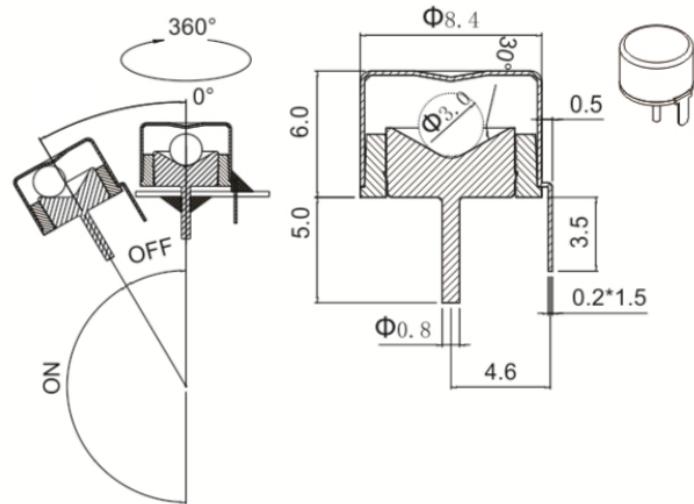


Features

- 3.3V / 5V compatible
- 360° inclination detection
- Sensitive trigger
- Support graphical programming like Mind+

Specifications

- 3.3V to 5V working voltage
- Communication:
 - Digital
- Connector:
 - Gravity
- Tilt Switch Angle:
 - $45^\circ \pm 10^\circ$
- Module Size:
 - 22mm x 30mm / 0.87inches x 1.18inches

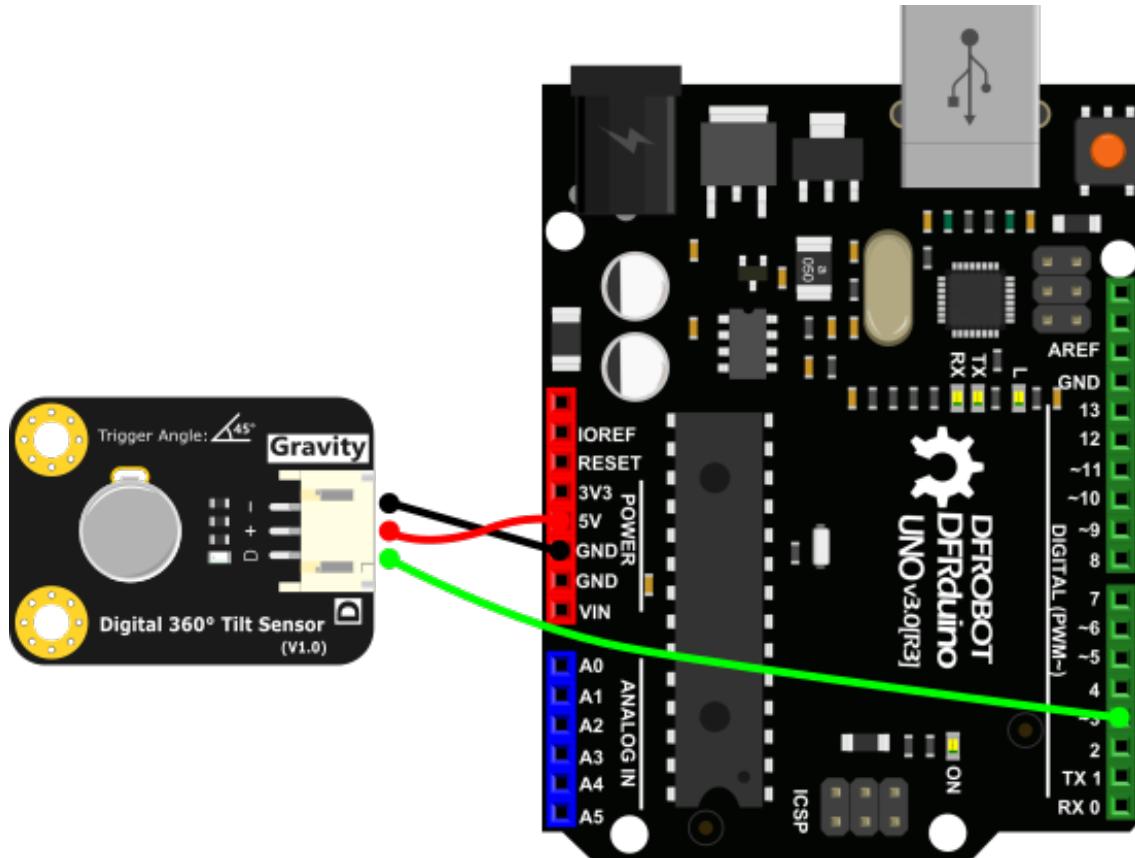


Schematic diagram of internal structure

Applications

- Teaching experiment - Tilt detection
- DIY Toy

Connection Diagram



Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-dfr0830-digital-tilt-sensor/>