

DFR0392 DFRduino M0

Robot Controller

DFR0398 Romeo BLE Quad

Mainboard Arduino Compatible

DFR0416 Bluno M0 Mainboard

Introduction Specification **Board Overview Dimensional Drawing** Tutorial FAQ More Documents

COMMUNITY NEW

SKU:SEN0381

FORUM



BLOG

This is a digital IR Proximity Sensor with on-board button and

200cm and comes with real-time status feedback. Press down the button, then the indicator starts to flash, this time the detection distance can be adjusted. The sensor will auto detect and save the distance between it and obstacle ahead. In addition, this sensor is equipped with 3PIN data cable (digital signal output) that can be directly plugged into Arduino IO expansion board. The product can be widely used in applications like smart home, house security, intelligent detection and control, robot obstacle, and so on. The sensor is based on the principle of diffuse reflection of IR light on objects. When a person or object enters the sensing range in front of the sensor, the sensor immediately determines that there is induction, so as to control the output signal; after the person or object leaves the sensing range, it will judge that there is no induction, and stop signal output, by which intelligent control can be achieved. Specification

indicator. It provides adjustable detection distance within 0 to

EDUCATION

• Output: switch quantity(active-high) • Detection Angle: 30-40° coning angle

Power Supply: 5V

- · Detection Mode: active • Operating Temperature: -10~60°C

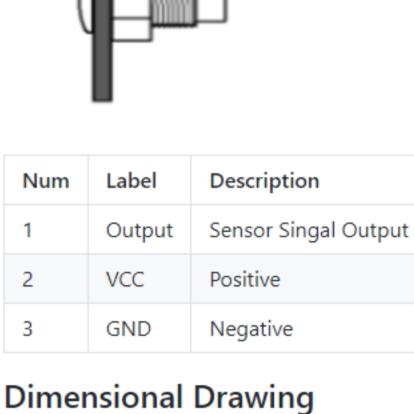
• Detection Distance: 0~200cm(adjustable)

- Storage Temperature: -20°~70°C • Waterproof Performance: IP67
- **Board Overview**

1

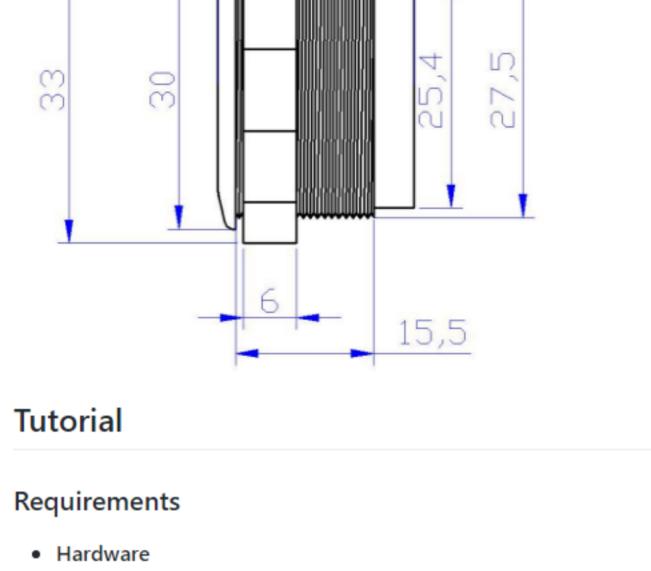
2

3



OUT VCC

GND



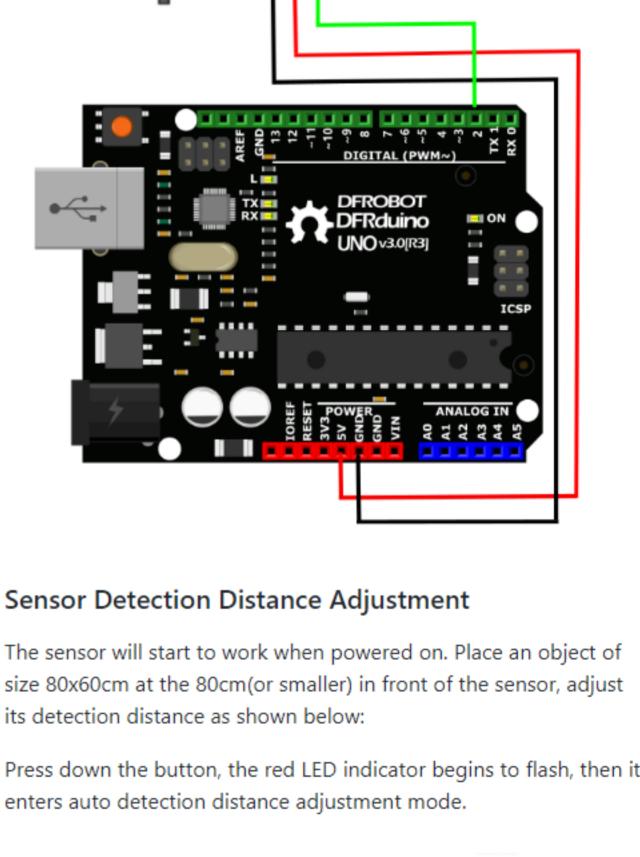
o DFRduino UNO R3 (or similar) x 1

o Digital IR Proximity Sensor(0-200cm) x1

mm

Software Arduino IDE

Connection Diagram



Sensor Front Side

Detection Distance Auto Adjustment Button

Sample Code * @File Infrared_Approach_Sensor.ino * @brief Detect the status of IO4 and print it in serial por * @copyright Copyright (c) 2010 DFRobot Co.Ltd (http://www.d * @licence The MIT License (MIT) * @author [liunian](nian.liu@dfrobot.com) * @version V1.0 * @date 2020-08-20 int OUT = 4; int i = 0; void setup() Serial.begin(9600); pinMode(OUT, INPUT);

≤ 120cm (Can be set according to User's actual scenes)

Read the status of IO4. When the sensor detected an object, serial print 1, otherwise, print 0.

COM8

i = digitalRead (OUT);

Serial.println(i);

void loop()

delay(5);

Expected Results

发送



FAQ

DFRobot Forum.

More Documents

Get Digital IR Proximity Sensor(0-200cm) from DFRobot Store or DFRobot Distributor.

Turn to the Top