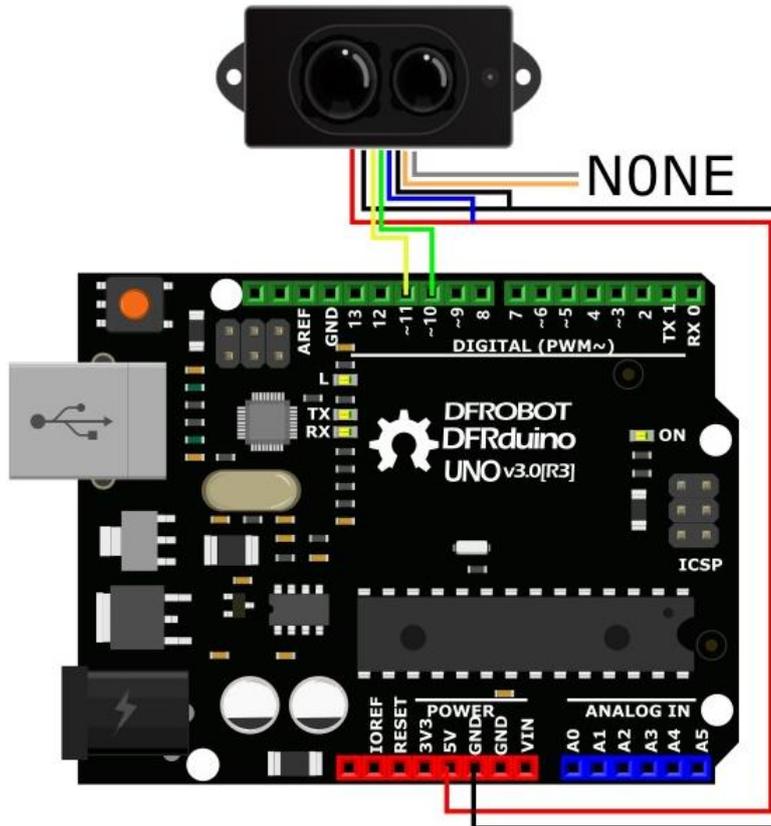


TOF IR Distance Sensor (0.2~12m)

INTRODUCTION

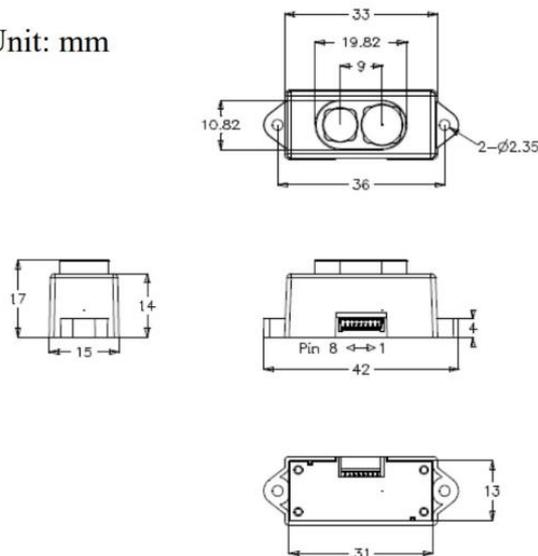
This is a low-cost single-point TOF (Time of Flight) IR distance sensor for short-to-medium range distance measurement within 0.2m~12m. It adopts 850nm LED light source and unique designs of optical system, structure, and circuit. The integrated filtering algorithm could greatly reduce the measurement noise.

The ranging module supports both I2C and UART communication, easy to be integrated into end products. Besides, it offers single passive measurement and continuous active measurement for meeting various requirements in actual use.



Connect Diagram

Unit: mm



Dimension

SPECIFICATION

Measurement Range: 0.2m~12m (Indoor 90% reflectivity)

Power Supply: 4.8-5.2V

Communication: UART, I2C

Measuring Accuracy: 20-350cm(± 5 cm) 351-1200cm($\pm 1.5\%$ cm)

Receiving View Angle: half-angle 1°

Transmitting View Angle: half-angle 2°

Minimum Resolution: 1mm

Test Frame Rate: Max 500Hz

Ambient Light Immunity: 15Klux

Exposure Time: 5us-5000us

Signal Amplitude: 3400LSB-7000LSB

Operating Temperature: -10°C - 60°C

SHIPPING LIST

TOF IR Distance Sensor (0.2~12m) x1

8PIN Sensor Connector x1

