adafruit

SHOP   BLOG   LEARN   FORUMS   VIDEOS   🔍

IR Distance Sensor - Includes Cable (100cm-500cm) - GP2Y0A710K0F

PRODUCT ID: 1568

IN STOCK

| 1 | **ADD TO CART** |

1-9
10-99
100+

ADD TO WISHLIST

DESCRIPTION
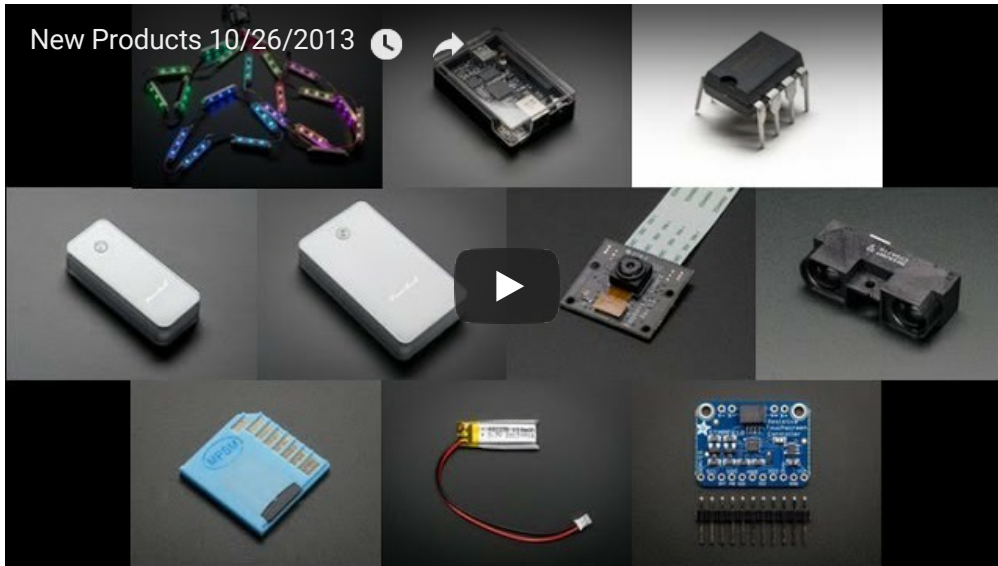
TECHNICAL DETAILS

DESCRIPTION

This extra-long-range SHARP distance sensor bounces IR off objects to determine how far away they are. It returns an analog voltage that can be used to determine how close the nearest object is. Comes with 6" long 6-JST interface wire. These sensors are good for detection between 100cm-500cm (1-5 meters / 3-15 feet). The long range makes them a good alternative to sonar sensors.

olorings are not intuitive! Watch out before wiring! The datasheet

has wiring details. Connect the two outer ground wires both to ground, the two 'VCC' wires both to 5VDC power, and read the analog signal from the Vo wire. The analog voltage out will range from 3V when an object is about 100cm away and 1.4V when the object is 500cm away. For a full graph, showing the distance to analog range, check the datasheet below.

These sensors tend to be a little noisy, we suggest soldering/connecting the included 220uF capacitor to the same place you connect the wires, to provide some filtering on the power supply. Connect the + pin of the capacitor to the Vcc wire connection, and the - pin of the capacitor to the GND wire connection.

For more information, please see the datasheet!

IR Distance Sensor - Includes Cable (100cm-500cm) (12:37)
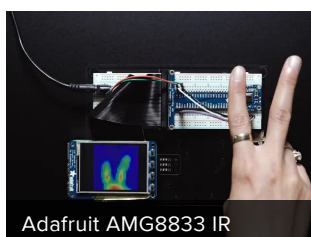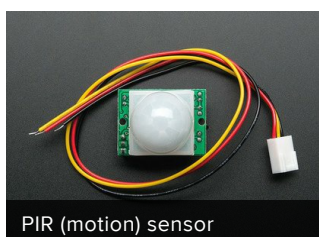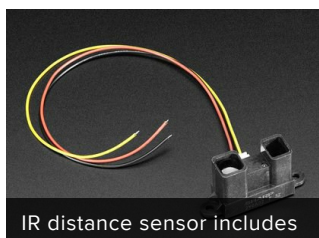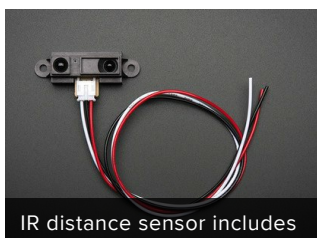

TECHNICAL DETAILS

Dimensions:

- Dimensions: 58mm x 17.6mm x 22.5mm
- Weight: 11g with cable

One 4.2mm diameter mounting hole. For more information, please see the datasheet!

MAY WE ALSO SUGGEST...

IR distance sensor includes

IR distance sensor includes

Maxbotix Ultrasonic

Maxbotix Ultrasonic

PIR (motion) sensor
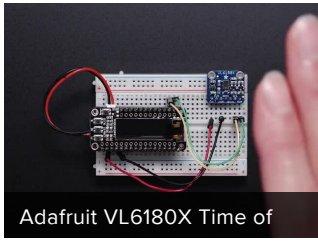

Adafruit AMG8833 IR

Sharp GP2Y0D805Z0F

Sharp GP2Y0D810Z0F

HC-SR04 Ultrasonic Sonar

Adafruit VL6180X Time of

IR Break Beam Sensor -

Adafruit VL53L0X Time of

DISTRIBUTORS EXPAND TO SEE DISTRIBUTORS

CONTACT

SUPPORT

DISTRIBUTORS

EDUCATORS

JOBS

FAQ

SHIPPING & RETURNS

TERMS OF SERVICE

PRIVACY & LEGAL

ABOUT US

ENGINEERED IN NYC Adafruit ®

"The cheapest, fastest, and most reliable components are those that aren't there" - Gordon Bell

Authorize.Net
VERIFIED MERCHANT
Click

4.9 ★★★★★
Google
Customer Reviews