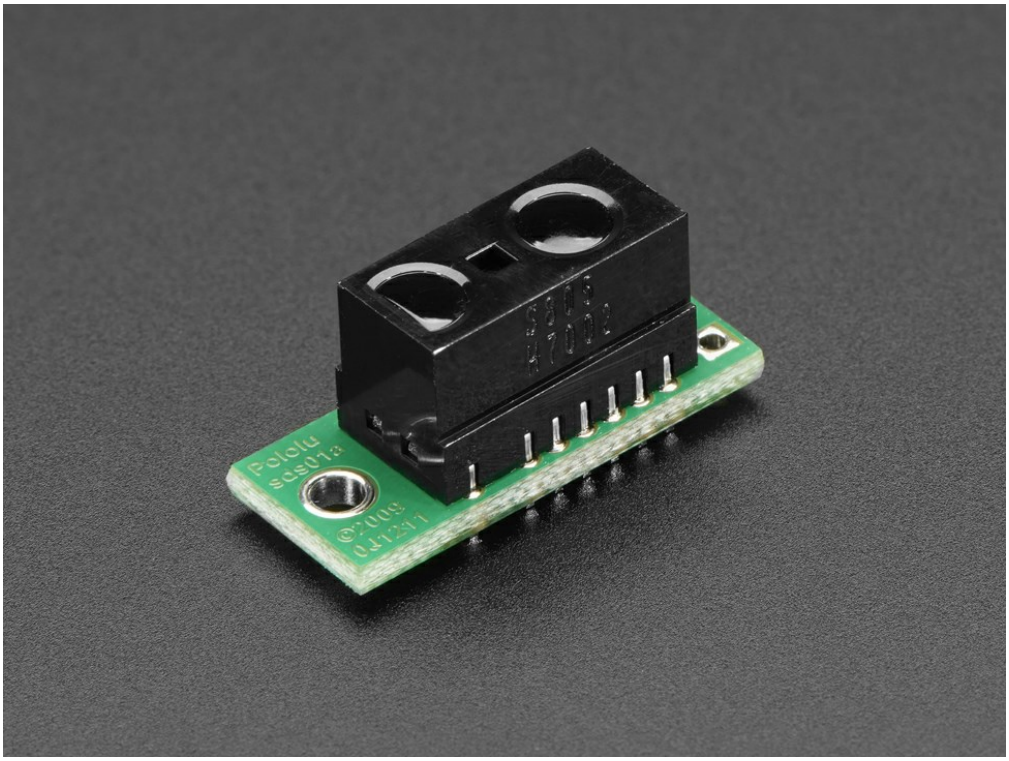










Sharp GP2Y0D805Z0F Digital Distance Sensor with Pololu Carrier - 0.5 cm to 5 cm

PRODUCT ID: 3025

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DESCRIPTION

TECHNICAL DETAILS

DESCRIPTION

If you're like me, you've always wanted a smaller and faster way to sense an object between 0.5 and 5 centimeters away. If you're really like me, you've wanted the sensor to come with a low current draw and on a tiny carrier board with all of the external components required to make it work.

The **Pololu Carrier with Sharp GP2Y0D805Z0F Digital Distance Sensor** fits those both needs and more. it's one of Sharp's fastest distance sensors - with a sample rate of almost 400 Hz and is an attractive alternative to short range phototransistors and longer range analog distance sensors.

This small digital distance sensor detects objects between **0.5 cm and 5 cm** (0.2″ and 2″) away. With its quick response time, small size, low current draw, and short minimum sensing distance, this sensor is a good choice for non-contact, close-proximity object detection, and our compact carrier PCB makes it easy to integrate into your project. If you need *slightly* more distance from your sensor, we also offer the GP2Y0D810Z0F, which can sense objects 2 to 10cm away.

There are a few millimeters of hysteresis around the maximum range threshold and no hysteresis at the minimum range threshold. Note that these sensors will only tell you *if* there is an object within the detection range along their narrow lines of sight; they will not tell you how far away the object is.

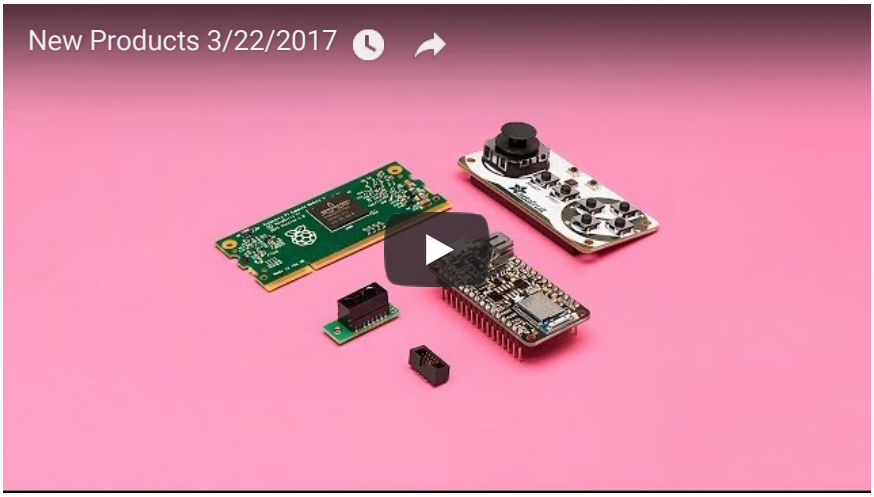
Some example applications include:

- break-beam sensor or photogate alternative
- non-contact bumper or obstacle detector
- a counter or timer of objects as they pass by

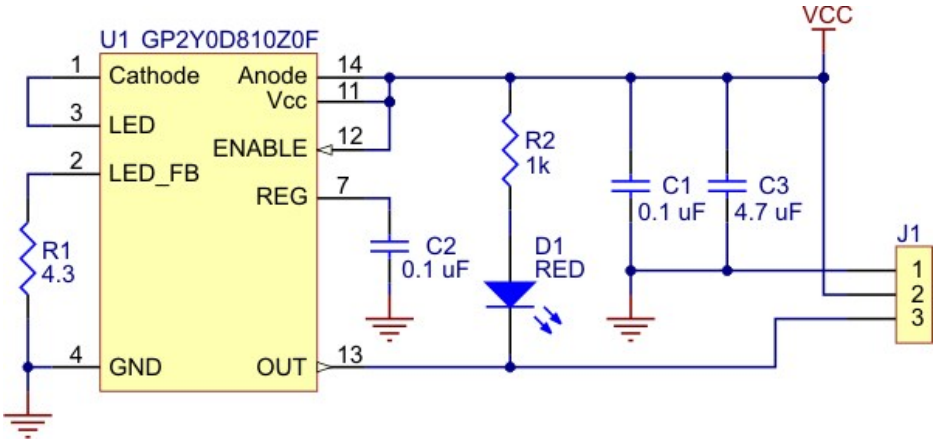
a 3-pin right-angle male header. You can

connect these pins with a servo cable. The square pad is ground, middle is VIN, and the remaining pad is output. If you place a large capacitor (more than 10uF) between power and ground you should see an increase in performance.

We carry a large variety of Sharp Distance sensors here if this fellow isn't what you're looking for.



TECHNICAL DETAILS



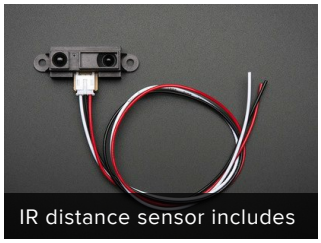
- Operating voltage: 2.7 V to 6.2 V
- Average current consumption: 5 mA (typical)
- Distance measuring range: 0.5 cm to 5 cm (0.2″ to 2″)
- Output type: digital signal (low when detecting an object, high otherwise)
- Steady state update period: 2.56 ms typical (3.77 ms max)
- Enable pad can optionally be used to disable the emitter and save power (this feature requires you to cut a trace first)

Product Dimensions: 21.8mm x 10.5mm x 9.0mm / 0.9" x 0.4" x 0.4"

Product Weight: 1.3g / 0.0oz

MAY WE ALSO SUGGEST...


Sharp GP2Y0D810Z0F


IR distance sensor includes

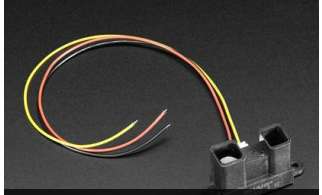

Maxbotix Ultrasonic



PIR (motion) sensor



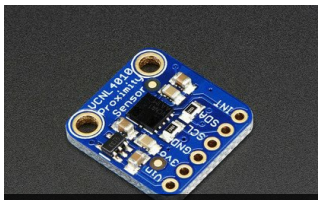
IR Distance Sensor -



IR distance sensor includes



Maxbotix Ultrasonic



VCNL4010 Proximity/Light

DISTRIBUTORS EXPAND TO SEE DISTRIBUTORS

4.9 ★★★★★
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