

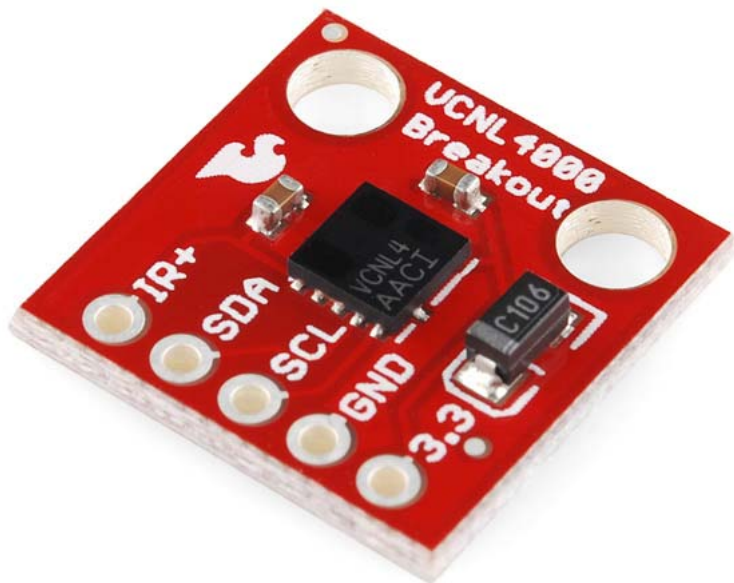
Retired Product

This product has been **retired** from our catalog and is no longer for sale. This page is made available for those looking for datasheets and the simply curious.

SparkFun Infrared Proximity Breakout - VCNL4000

BOB-10901 ROHS ✓ ✱

★★★★☆ 1



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Description: In physical computing it's sometimes nice to know how physically close you are to an object. In other words, you may need to know your 'proximity' to an object, that's where the VCNL4000 does its magic. Okay, it's not actually magic, it's a combination ambient light sensor and IR proximity sensor.

The VCNL4000 can detect its proximity to an object using IR within a range of about 20cm. Proximity data as well as ambient light level data can be collected over an I2C interface. This breakout board gives you access to the I2C pins, the Vcc pin, GND and the IR+ pin (power supply for the built-in IR emitter). Simply give the board a clean 3.3V power source and give the IR emitter anywhere from 2.5-5V and you'll be able to tell how far you are from an object up to 20cm.

Features:

- Voltage Rating: 3.3V
- IR Emitter Vin: 2.5-5V
- I/O pins are 5V compliant
- Range: Up to 20cm
- Built-in Ambient Light Sensor

Documents:

- Schematic
- Eagle Files
- Datasheet (VCNL4000)
- Application Notes (VCNL4000)
- Example Code
- Bildr Tutorial
- GitHub

Recommended Products



SPARKFUN RECOMMENDED
Break Away Headers - Straight
 PRT-00116
\$1.50
 ★★★★★ ☆ 20



SPARKFUN RECOMMENDED
Mini Photocell
 SEN-09088
\$1.50
 ★★★★★ ☆ 7



SPARKFUN RECOMMENDED
Infrared Proximity Sensor Long Range - Sharp GP2Y0A02YK0F
 SEN-08958
\$14.95
 ★★★★★ ☆ 1



SPARKFUN RECOMMENDED
Infrared Proximity Sensor - Sharp GP2Y0A21YK
 SEN-00242
\$13.95
 ★★★★★ ☆ 1

COMMENTS 17

REVIEWS ★★★★★ ☆ 1

Customer Reviews

★★★★☆ 4 out of 5

Based on 1 ratings:

| | |
|--------|---|
| 5 star | 0 |
| 4 star | 1 |
| 3 star | 0 |
| 2 star | 0 |
| 1 star | 0 |