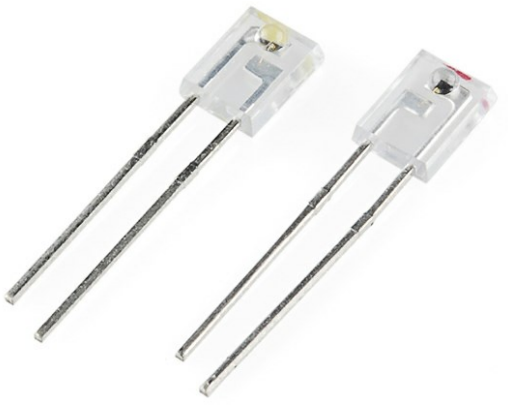








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Infrared Emitters and Detectors

SEN-00241 ROHS

6

DESCRIPTION

Side-looking Infrared Emitters and IR Detectors. These simple devices operate at 940nm and work well for generic IR systems including remote control and touch-less object sensing. Using a simple ADC on any microcontroller will allow variable readings to be collected from the detector. The emitter is driven up to 50mA with a current limiting resistor as with any LED device. The detect is a NPN transistor that is biased by incoming IR light.

Datasheets:

- IR Emitter (Yellow dot)
- IR Detector (Red dot)

Applications:

- IR Schematic - Basic object detection schematic
- Robot Room - Excellent website with lots of goodies

Sold as a **pair**, with one Emitter and one Detector.

Infrared Emitters and Detectors Product Help and Resources

TUTORIALS VIDEOS SKILLS NEEDED



Simon Tilts Assembly Guide

DECEMBER 3, 2013

This tutorial will guide you through assembling your Simon Tilts PTH Kit.

COMMENTS 50 REVIEWS 6

Customer Reviews

Based on 6 ratings:

5 star	5
4 star	1
3 star	0
2 star	0
1 star	0

Currently viewing all customer reviews.

1 of **1** found this helpful:

★★★★★ replacement parts for Irobot roomba

about 3 years ago by Member #634138 ✔ verified purchaser

exactly what I needed

---

1 of **1** found this helpful:

★★★★★ Fixed Roomba!

about 3 years ago by Member #400089 ✔ verified purchaser

Purchased these to fix one of the bumper switches on my Roomba vacuum cleaner. Worked like a charm. Cheapest fix I've ever done.

---

1 of **1** found this helpful:

★★★★★ Works great

about 3 years ago by bobdabiulder ✔ verified purchaser

Sensors are great. Works really well.

WARNING: DO NOT FEED ANY MORE THAN 5 VOLTS!

I made that mistake, and feed the emitter more than five volts. It flashed really bright, pooped and died.

---

1 of **1** found this helpful:

★★★★★ Exactly what our Roomba 510 needed

about 3 years ago by Member #672806 ✔ verified purchaser

After years of faithful service, our 510 Roomba started doing the boogie fever circle dance, for which the only prescription is more cow… Uh, I mean new emitters and detectors for the bumper sensor. We took it apart, switched out the old with the new, put it back together, and crossed our fingers when we pressed the start button. It worked perfectly! (Until the battery died, but that's another problem for another store.)

---

1 of **1** found this helpful:

★★★★☆ Excellent!

about 2 years ago by Member #119166 ✔ verified purchaser

Made a bunch of beam block detectors using ATTINY85s to modulate the beam and ignore ambient light. Very easy to use.

---

1 of **2** found this helpful:

★★★★★ Eccellent

about 3 years ago by Member #634753 ✔ verified purchaser

Very quick shipping and packaging, parts worked with no problems

---

In 2003, CU student Nate Seidle blew a power supply in his dorm room and, in lieu of a way to order easy replacements, decided to start his own company. Since then, SparkFun has been committed to sustainably helping our world achieve electronics literacy from our headquarters in Boulder, Colorado.

No matter your vision, SparkFun's products and resources are designed to make the world of electronics more accessible. In addition to over 2,000 open source components and widgets, SparkFun offers curriculum, training and online tutorials designed to help demystify the wonderful world of embedded electronics. We're here to help you start something.

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