

Light Detector Board

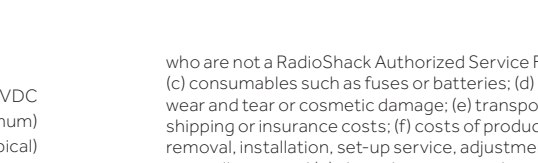
- Light Detector Board
- User's Guide

- Light triggers high-level output
- Variable resistor to control light sensitivity
- Power Requirement: 5 VDC

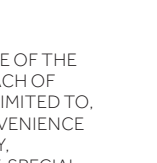
- ## Accessories Required (Not Included)
- 2 Pin Cable (1)
 - 1 Pin Cable (1)
 - 2 × 2 Dual Male Pin (1)
 - 1 × 1 Dual Male Pin (1)
 - LED (1)

Connect

1. Connect the light detector board to your Arduino board's power headers using a 2-pin cable and a 2 × 2 dual male pin.
 - **5V to V**
 - **GND to G**



2. Connect the light detector board to your Arduino board's digital port using a 1-pin cable and a 1 × 1 dual male pin.
 - **2 to S**
3. (Optional for use with example .ino file) Insert an LED into the Arduino board.
 - **Short lead – (cathode) to GND**
 - **Long lead + (anode) to 13**



We hope you enjoy your Light Detector Board from RadioShack. Please read this user's guide before using your new board.

Programming the Sensors

1. For schematics and programs, go to <http://shack.net/2760346>.
2. At the end of the blog post, click **RadioShack Light Detector Board Support Files** and save the folder to your computer.
3. Connect your Arduino board to your computer with a USB cable.
4. Open **light_detector.ino** in the Arduino programming environment.
5. Verify and upload the program to your Arduino board.
6. Remove the USB cable from your Arduino board.
7. The LED will illuminate when the board detects light.

Specifications

Operating Voltage	5 VDC
Operating Current (at 5 VDC)	4.5 mA (minimum)
	4.8 mA (typical)
	5.0 mA (maximum)
Output Signal	Low (normal)
	High (trigger)
Light Sensitivity	>1500 lx (minimum resistance)
	20 ~ 65 lx (maximum resistance)
Dimensions (l × w × h)	1.7 in × 1.06 in × 0.06 in
	(43mm × 27mm × 1.6mm)

Specifications are subject to change and improvement without notice. Actual product may vary from the images found in this document.

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