



Fall Detector Lamp



by simplecircuits

This Instructable shows how you can make a simple fall detector lamp from a light bulb and a pair of old sunglasses plastic lenses.

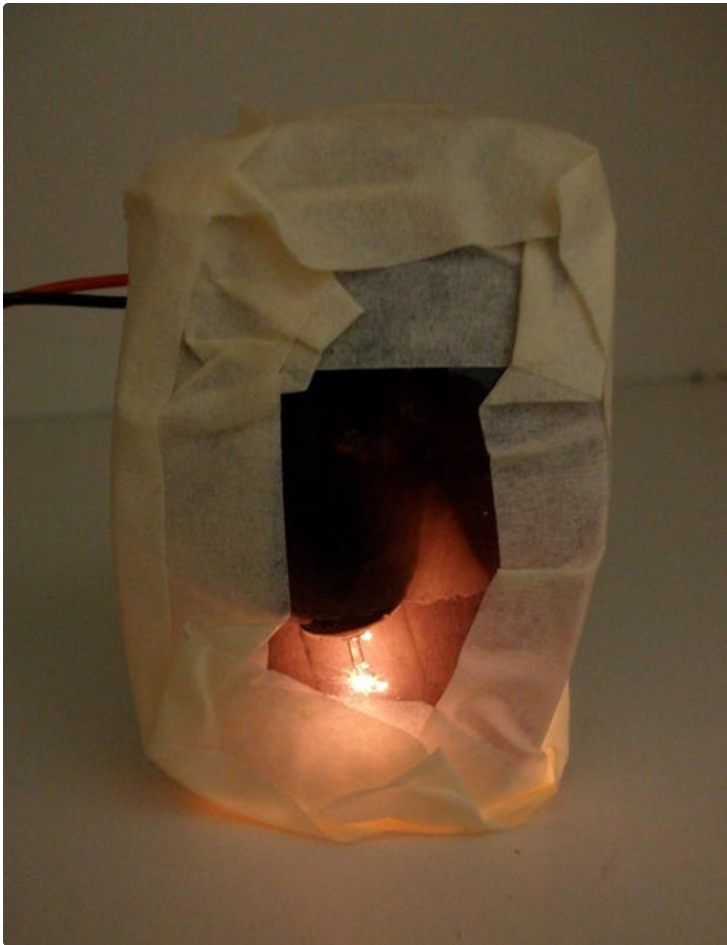
Supplies:

materials: light bulb or bright LED, masking tape, old sunglasses lenses, light bulb holder (for light bulb), mercury sensor.

tools: wire stripper, 9 V battery, 9 V battery harness.

optional components: 1 kohm resistor (only if you are using a bright LED to be placed in series with the LED), solder, electrical tape, matrix board, wires.

optional tools: soldering iron.



https://www.youtube.com/watch?v=-Gyp0_dHNik

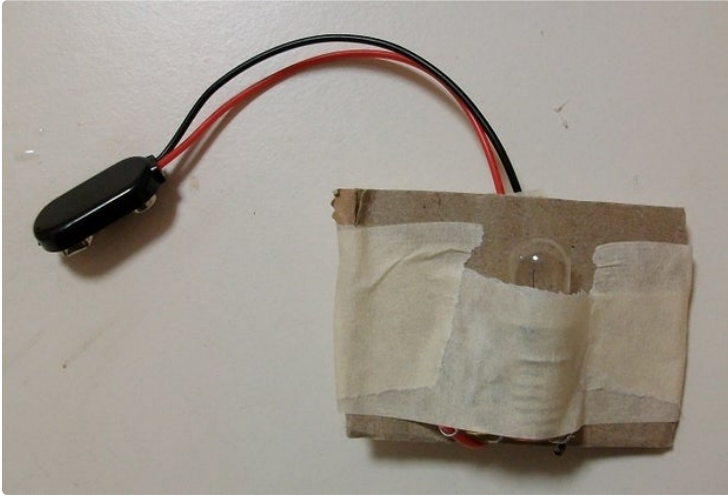
Step 1: Build the Circuit

I had a challenge of making a contact between the sensor and the light bulb holder reliable because the sensor wires are very thin and the contact with the light bulb holder. Thus I had to use a soldering iron. I did not use any wires. I attached directly to the 9 V battery harness.



Step 2: Attach to Cardboard

I used masking tape. This step is very useful because the mercury sensor is made from glass and can break easily. This is why I suggested the use of the matrix board.



Step 3: Test the Circuit

The circuit works well.

<https://www.youtube.com/watch?v=qImbWx4af1Y>