

# Re: Simple Circuit Design

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*Source:* <http://sci.tech--archive.net/Archive/sci.electronics.design/2006-03/msg00078.html>

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- *From:* "Ben" <[bens\\_groups2003@xxxxxxxxxxxxxxxxxxxxx](mailto:bens_groups2003@xxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Wed, 1 Mar 2006 17:54:43 +1100
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Hi,

20mA is a bit much for 2 coin cells. YOU could run the led at 5mA and use a high bright one.

As for the rest of the circuit, it needs more detailed information:

- 1: When the switch is open (no magnet), what does the led do?
- 2: When the switch goes closed (magnet added) what does the led do at that moment?
- 3: When the switch stays closed, for 2 – 3 minutes what does the led do?
- 4: When the switch goes open after 3–x minutes, what does the led do?
- 5: When the switch goes open before 2 minutes are up, what does the led do?
- 6: When the switch stays closed for indefinite, what does the led do?
- 7: When the switch goes open and closed again after 3 minutes, what does the led do?

This could be converted to a truth table.

As it is, it sounds like it is probably a monostable multivibrator also known as a 'one shot'.

Regards  
Bernt

"artbinct" <[bauera@xxxxxxx](mailto:bauera@xxxxxxx)> wrote in message  
[news:1141183121.296083.112710@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:1141183121.296083.112710@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

I would like to know if anyone can help with designing a circuit that powers an LED using (2) 2032 coin cell batteries (6V). The ON/OFF function of the LED is controlled by a NO switch (magnetic reed switch—like the kind used on windows in homes for security systems). I would like the LED to shut off after about 2–3 minutes if the switch is left in the NC position. I am not sure how to do this. The less components the better. Any help would be greatly appreciated.

Thanks

Art

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