

# Re: Heartbeat Monitor/Detector

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*Source:* <http://sci.tech--archive.net/Archive/sci.electronics.design/2007-02/msg00004.html>

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- *From:* D from BC <[myrealaddress@xxxxxxxxxx](mailto:myrealaddress@xxxxxxxxxx)>
  - *Date:* Wed, 31 Jan 2007 22:20:37 GMT
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On Wed, 31 Jan 2007 20:45:23 GMT, Jan Panteltje  
<[pNaonStpealmtje@xxxxxxxxxx](mailto:pNaonStpealmtje@xxxxxxxxxx)> wrote:

On a sunny day (Wed, 31 Jan 2007 20:14:11 GMT) it happened D from BC  
<[myrealaddress@xxxxxxxxxx](mailto:myrealaddress@xxxxxxxxxx)> wrote in  
<[nss1s2leabt9a8rga2amga5op651ia3pks@xxxxxxxxxx](mailto:nss1s2leabt9a8rga2amga5op651ia3pks@xxxxxxxxxx)>:

You must have really strong brain waves ;-)

It's from too much lossy thinking.. My brain waves are so strong that  
my head overheats from  $I^2 \cdot R$  losses. I might need to put heat sink on  
my head.. :)

I didn't mean the electrodes go on the head but across the heart to  
pick up the brain trigger signal. I don't know the dominant signal...  
Could be the nerve to the heart.. Could be the heart itself or both.

D from BC

My recent understanding is that the heart triggers itself (an internal  
feedback loop).

I dunno if there is a signal from the brain too, but things like adrenaline do  
affect the speed it runs.

But I am no doctor, so...

I believe that's right... I'm thinking about it more..

IIRC I saw a documentary in which heart cells under the microscope  
beat..

Also...I've never heard of a head injury so severe that it stopped the  
heart..

Without a google search..Maybe the heart still puts out a voltage  
detectable on the skin.

What were all those chest wires for in those old hospital movies??

I did see that optical thingy on the finger on this weeks episode of

## Re: Heartbeat Monitor/Detector

House..

Optical device was mentioned by other posters.

Guessing at it's construction:

Small view angle LED and phototransistor. Both parts can be SMD.

D from BC

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