



## Re: IR sensor with LM324

the oscillator/driver built-in, and all you have to do is apply voltage. You might find your piezo element starts beeping when you apply DC voltage. If that's the case, the second op amp is doing exactly the wrong thing. But if you do have a bare piezo element, you should be able to get much better results by bridging the drive with another 1/4 of the LM324.

2) According to your diagram, you have "IR in" as the inverting input of the first op amp. I'm assuming you've actually got a phototransistor or something like that. I'd like to know what it is, and also how you've got it hooked up. Many IR sensors require a pullup resistor to show a voltage. If you've got a meter, you can test thi