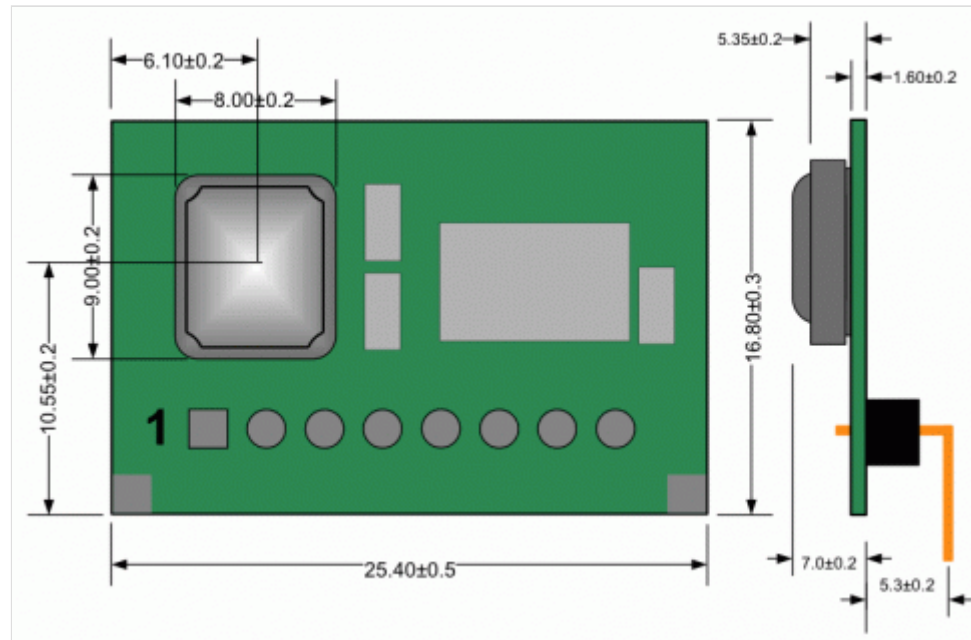


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# Stop! Who Goes There?

Detect motion with itty-bitty embedded PIR sensors

By [Dave Prochnow](#) Posted 05.13.2009 at 1:19 pm



ePIR Layout: Zilog

Would you like to reduce the size of your home security system? Like something on the order of magnitude of motion detectors that can fit on a postage stamp? Sensors are actually powerful passive infrared (PIR) detectors that can be easily slipped into an area where their **larger PIR brethren** couldn't even dream. Specifically designed for embedded projects, ePIR Motion Detectors are made by **Zilog**. Yes, those same folks who sparked the personal computer revolu

case, Zilog has created a single board computer (SBC) system for "drop-in," rapid-time-to-market development featuring a powerful motion detector. Zilog sensing shebang [ePIR Motion Detection Zdots® Single Board Computer](#). Heck, the name is bigger than the sensor itself.

But this diminutive ePIR sports some big-body features:

- | ePIR #ZEPIR0AAS01SBCG
- | 60-degree detection pattern
- | 5-meter range
- | Included Fresnel lens
- | Ambient light filter capability
- | Low power sleep mode
- | Standalone or MCU controlled
- | Built-in sensing algorithms

Oh, and did I say that these little fellas can be battery-powered? Sipping only 3.3VDC, a completely self-contained PIR system could be easily coupled with for discreet home sentry duty. Want to add a motion sensor at the end of your driveway? No problem, when using an ePIR as a remote motion trigger system, no complex computer setup procedures; just a simple standalone warning system that could, for example, tell you when the mail has been delivered.

Home security isn't the only function that suits a Zilog ePIR. You could add an ePIR relay unit to a lamp in a closet, for example, that will automatically turn on. Likewise, proximity sensing is available on an ePIR, simply by adjusting the sensor's sensitivity input. Therefore, home appliances, like a kitchen news reader, can be activated when someone comes within a couple of feet of the sensor. Voila, instant-on information.

It's a security system. And it's a helping hand. [Clapper](#), you've met your match. You can order ePIR #692-ZEPIR0AAS01SBCG from [Mouser](#) for \$6.50.

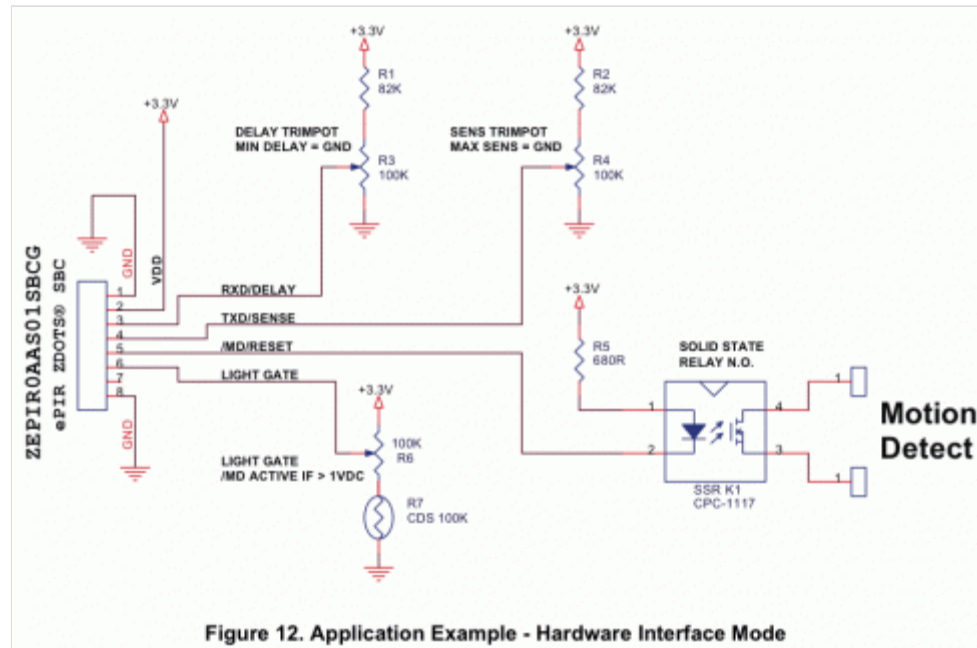


Figure 12. Application Example - Hardware Interface Mode

ePIR Schematic: *Zilog*

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[dfrancisco](#)

05/18/09 at 5:34 pm

Hi Dave, I manage public relations for the Zilog t  
your post and would like to connect with you to t  
they're doing. Please contact me at [dan@franci](mailto:dan@franci)  
interested in following up. Thanks- Dan Francisc

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