

New VCNL4000 Demo Kit

The News:

Vishay Intertechnology Introduces New Demo Kit for VCNL4000 Fully Integrated Proximity and Ambient Light Sensor

Vishay Intertechnology, Inc. (NYSE: VSH) introduces a new demo kit for its VCNL4000, the industry's first fully integrated proximity and ambient light optical sensor. The new kit allows design engineers to quickly, easily, and inexpensively determine if the VCNL4000 is a good fit for their application.

Product Benefits:

- Software includes user interfaces for proximity function and ambient light function
- Immediately determine impact of different window materials on output
- USB interface for ease of use
- Sensor board can be integrated with customer's prototype development

The Key Specifications:

- Proximity function
 - Adjustable emitter current, sampling rate, sampling mode, and output unit of measure
 - Automatic noise and offset compensation
 - Two displays show the full and active dynamic range of the sensor output
- Ambient light function
 - Adjustable sampling rate, sampling mode, and automatic adjustment for temperature related drift
 - Two displays show the full and active dynamic range of the sensor output
 - Output is displayed in counts and lux



Market Applications:

- Industrial controls
- Vending, ATM, and gaming machines
- Mobile devices such as smart phones, touch phones, PDAs, GPS units, digital cameras, and video cameras
 - Saves power as a proximity sensor for touch screen on/off control, and serves as an integrated ambient light function for display/keypad contrast control and dimming



New Product Info



Product Group: Vishay Optoelectronics, Sensors / **May 2011**

The Perspective:

As a fully integrated sensor, the VCNL4000 includes an infrared emitter, ambient light sensor, proximity photodiode, signal processor and I²C interface in a single surface-mount package. The VCNL4000 Demo Kit includes the sensor mounted on a PCB with a USB interface and demonstration software. The software includes two interface panels: one for the ambient light function and the other for the proximity function. Customers can adjust key performance parameters and judge the affect on their application. They can also easily test different housing or window materials to determine the change in sensitivity or output of the sensor. If the sensor is right for the application, the kit will jump start product development.

Availability: The VCNL4000 Demo Kit is available now from Vishay's catalog distributors.