



## Press Release

Berlin – November 14, 2013

### First Sensor introduces Product Innovation: Module for Radiation Detection

#### Typical applications

- Radiation detectors
- Measurement of radiation dose in medical measuring devices
- Personal dosimeters

#### Special features

- 2-level amplifier, filter amplifier, and comparator
- 100 mm<sup>2</sup> PIN detector with 8 mm CsI:TI scintillator
- Very compact design
- High sensitivity for <sup>137</sup>Cs

First Sensor AG is expanding its product range in the area of ionizing radiation detection with a radiation detection module that combines a 100 mm<sup>2</sup> photodiode with an 8 mm CsI:TI scintillator. The module measures only 17x16x19 mm, detects gamma radiation in the energy range of 150 to 1,500 keV and is optimized for detection of <sup>137</sup>Cs. The pulse output allows for very simple integration in instruments used to measure gamma radiation.

For 20 years now, First Sensor has developed and produced a wide variety of photodiodes with high sensitivity, fast speed and low dark currents. Our development expertise, proprietary laboratories, and clean rooms enable us to make any kind of client-specific modification. Our detectors are thus optimized for ultraviolet, visible, and infrared light as well as ionizing radiation. First Sensor's radiation detectors can be equipped with or without scintillators, according to their application.

First Sensor and the Weißensee location (formerly Elbau® – Elektronik Bauelemente GmbH) have successfully collaborated for years in the area of design and connection technology as well as system development.

**About First Sensor**

First Sensor is a leading supplier of custom sensor solutions for highly sophisticated requirements. Together with our customers, we develop sensor solutions in the area of OPTO and MEMS within a variety of markets. First Sensor manufactures in-house along the value adding-chain from component to system level for the detection of light, radiation, pressure, flow and acceleration. In 2012, First Sensor achieved annual sales of €112 million. Employing 700 people, the company is represented at 14 locations around the world.

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For further information about the product please visit:  
<http://www.first-sensor.com/en/products/modules/hybrids>

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