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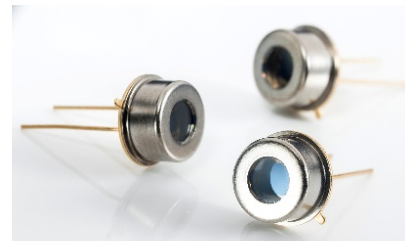
Infrared detectors Hertzstück™ with higher stability through double encapsulation

- PbS and PbSe infrared detectors with spectral range from 1 μm – 5 μm
- TO-package and thin film encapsulation for double protection and longer sensor lifetime
- Reliable detection of infrared light in safety-relevant applications

The infrared detectors Hertzstück™ are double encapsulated: The sensors are not only protected by a TO-package, but also by a novel thin-film encapsulation directly on the chip. This patent-pending technique ensures longer lifetime compared to conventional infrared sensors. In addition, the high detectivity of Hertzstück™ sensors (at room temperature) increases the reliability of safety-critical applications like moisture detection, gas sensing, spectroscopy, spark detection, flame control or chemical analysis.

Current electro-optical devices using PbS sensors are optimized for TO-packages. Hertzstück™ double-encapsulated sensors are fully compatible and can readily replace existing single-encapsulated sensors. Hertzstück™ sensors are available for wavelength range up to 3 μm (PbS) and up to 5 μm (PbSe) in TO5 and TO8.

The infrared detectors Hertzstück™ are developed and completely manufactured at a production site in Ludwigshafen, Germany. Detailed specifications can be found at www.hertzstueck.de.



Double-encapsulated IR-sensors Hertzstück™

About Hertzstück™

Hertzstück™ is a brand of trinamiX GmbH, a spin-off and wholly owned subsidiary of BASF SE. trinamiX GmbH was founded in 2015 and is based in Ludwigshafen, Germany. The team around Hertzstück™ consists of experts from various competence areas such as chemistry, physics, material science and engineering. We offer standard and custom-engineered products in the field of infrared (IR) detection. www.hertzstueck.de

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