

October 16, 2017

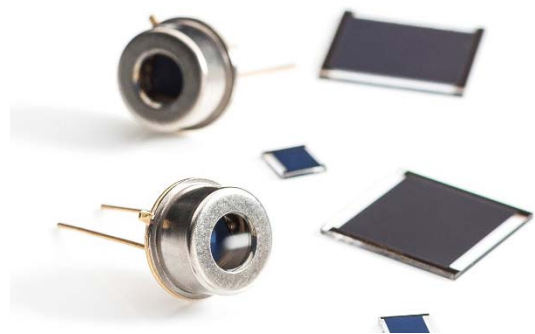
Media contact
Ines Kuehn
info@hertzstueck.de
T +49 621 60 42082

Higher stability through double encapsulation

- TO-package and thin film encapsulation for double protection
- Increased safety and longer lifetime for moisture detection, gas sensing, spectroscopy, spark detection, flame control or chemical analysis

The infrared detectors HertzstückTM are double encapsulated for higher safety and longer lifetime. 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 not only longer lifetime, but also highest detectivity (at room temperature) and thus increased safety.

Applications like moisture detection, gas sensing, spectroscopy, spark detection, flame control or chemical analysis depend on reliable detection of infrared light. Current production processes for optical devices in the semiconductor industry are optimized for TO-packages. HertzstückTM double-encapsulated sensors are fully compatible to such automated production and can readily replace existing single-encapsulated sensors. HertzstückTM sensors are available for wavelength range up to 3 μ m (PbS) and up to 5 μ m (PbSe).



Infrared detectors HertzstückTM as bare chip and double-encapsulated

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

Bare chip for small spaces

TO-packages provide extra protection but also take up space. Their placement and precise adjustment can be complex for specific applications. The thin film encapsulation applied on HertzstückTM sensors enables customers to use them even as bare chips. Environmental influences like water and oxygen and thus degradation are eliminated. Package size and total footprint are reduced. The highly regular size and shape of bare chip HertzstückTM sensors make

trinamiX GmbH
Industriestraße 35
67063 Ludwigshafen
Germany

Contact
T +49 (0) 621 60 567 39
W www.hertzstueck.de
E info@hertzstueck.de

Managing Director
Dr. Ingmar Bruder
Registered Office
67063 Ludwigshafen

Registration Court
Amtsgericht Ludwigshafen
Registration Number
HRB 62900
VAT No.:
DE280928150

Bank Account
BNP Paribas S.A. – Frankfurt
IBAN DE34 5121 0600 4220 7870 16
SWIFT BIC BNPAP333

them well suited to automated assembly via pick-and-place robot. This combination of benefits means that with Hertzstück™ bare chips, many applications can be smaller, cost less to assemble, and have better alignment tolerances.

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. Our focus is on providing the right sensor for your measurement need. www.hertzstueck.de

Sales contact

Christian Dörr

T +49 621 60 97165

christian.doerr@hertzstueck.de