

Product news

Thermoelectrically cooled PbS and PbSe detectors

June 9, 2020 – Ludwigshafen, Germany – trinamiX GmbH (Ludwigshafen, Germany) now offers their Hertzstück™ brand of PbS and PbSe detectors in various TEC (thermoelectrically cooled) configurations.

Depending on the customer's requirements for cooling and temperature stability, detectors can be equipped with single-stage to 4-stage TEC variants packaged in industrial standard TO housings.

Whilst a key advantage of PbS and PbSe detectors are their usability under room temperature conditions, cooling these detectors can improve their performance in key metrics. For instance, the wavelength cut-off is extended and a significant increase in specific detectivity can be achieved. Detectors with integrated thermoelectric cooling are also ideal for environments with fluctuating temperatures, as the temperature of the sensing element can be kept stable by regulating the TEC current.

A unique feature is that trinamiX places thermistors directly next to the detecting element, ensuring the temperature difference between thermistor and the detecting element is as low as possible. The consequences are faster, more accurate and more stable temperature control with less power consumption.

trinamiX offers direct replacements for the discontinued Hamamatsu PbS detectors P2532 and P2682 as well as PbSe detector P9696 with one or two stage TE-cooling but can also offer different detector geometries and TEC configurations serving a wide range of customer requirements.

About trinamiX:

trinamiX www.trinamiXsensing.com is a wholly-owned subsidiary of BASF SE, the world's largest chemical company. Founded in 2015, trinamiX has developed a wide-ranging portfolio of technologies and products around both infrared detection as well as 3D imaging and distance measurement. The company employs a team of more than 100 experts across a wide range of scientific disciplines.

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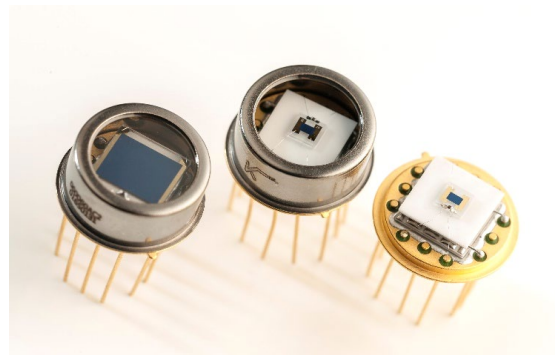
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