

Product news

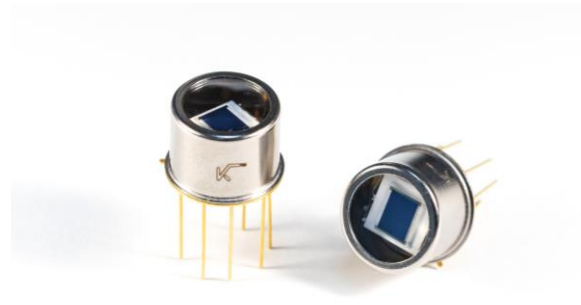
Thermoelectrically cooled PbS and PbSe Hamamatsu replacement detectors by trinamiX

August 11, 2020 – Ludwigshafen, Germany – trinamiX is now offering thermoelectrically (TEC) cooled PbS and PbSe TO detectors in familiar Hamamatsu Photonics style pin configuration. These provide a direct drop-in replacement for the discontinued Hamamatsu thermoelectrically cooled PbS detectors (P2532, P2682) and thermoelectrically cooled PbSe detectors (P2038, P2680, P9696).

Like Hamamatsu detectors, all TEC based trinamiX detectors incorporate a thermistor which allows for a precise temperature stabilization of the active element. The single and two stage TECs provide for operation at extremely low temperatures for increased detectivity and sensitivity at larger wavelengths independent of the ambient conditions.

With a performance equal to or better than the established Hamamatsu detectors, these PbS and PbSe detectors are especially well suited for near and mid infrared spectroscopy applications. The patented thin film encapsulation of trinamiX detectors provides additional robustness and customization possibilities beyond what was previously possible.

Customers can use the model numbers from the following table to find and order the correct replacement for their application. Additional geometries of the active area are possible on enquiry.



TEC based PbS and PbSe Hamamatsu replacement detectors by trinamiX GmbH

	Active area [mm x mm]	Cooling	Type No. Hamamatsu	Type No. trinamiX
PbS	4x5	One-stage TE-cooled	P2532-01	PbS05004TO8-1TEC
		Two-stage TE-cooled	P2682-01	PbS05004TO8-2TEC
PbSe	2x2	One-stage TE-cooled	P9696-102 P2038-02	PbS02002TO8-1TEC
		Two-stage TE-cooled	P9696-202 P2680-02	PbS02002TO8-2TEC
	3x3	One-stage TE-cooled	P9696-103 P2038-03	PbS03003TO8-1TEC
		Two-stage TE-cooled	P9696-203 P2680-03	PbS03003TO8-2TEC

[Download datasheet](#)

About trinamiX

trinamiX GmbH 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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