



99.9% Linearity

A market leader in optical scanning subsystems approached API with a requirement to produce a family of highly accurate position sensors with linearity of over 99.9%.

The product applications are beam steering scanner-based for laser based materials processing, bio-medical systems, laser projection, semiconductor processing equipment, and imaging, inspection and fabrication.

Engineering personnel from both companies teamed to develop the specifications. API then produced several wafers to exacting specifications, including very low dark current and high uniformity, all within a design and fabrication cycle of a six week period. After successful prototype evaluation by the customer, API went on to produce several manufacturing fixtures that accommodated the variety of sensors and properly aligned them to the required printed circuit board. This enabled support of high volume manufacturing and ensured the customer's integration of the assembly was perfect every time; producing high manufacturing yields and the performance edge the customer needed to maintain a market leading position.

API was able to provide a custom optical solution and meet the customer's demanding delivery schedule and offer continued support from prototyping and pilot production all the way through high volume production quantities.

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