

We present a giant sensitivity displacement sensor combining the push-pull method and enhanced Vernier effect. The displacement sensor consists in two ...

In this paper, a highly sensitive measurement of the displacement of an interferometer mirror based on spectral interferometry and the Vernier effect is proposed and demonstrated.

In this article, we have proposed and demonstrated an internal cavity displacement sensor based on two FPIs in parallel. The displacement sensor consists of two parallel FPIs, one of which ...

Spectral Interference Method that enables 1 nm Resolution. The lineup includes ultra-small, long-range, and other specialized heads to match a variety of applications. The measurement head consists of ...

In Section 3, we review the performances and mode of use of vibration and displacement sensors, and in Section 4, we list a number of opportunities for future research.

It is evident that the displacement measurement is correctly performed only if the interferometer is well aligned during the entire movement of the signal reflector and if the laser beams are not interrupted ...

In the paper, the concept of in-plane displacement sensor based on GI with a stepwise change in sensitivity is presented. It is realized by using the specimen grating with lower spatial frequency.

Large-Range and High-Sensitivity Displacement Sensing Based on Extrinsic Fabry-Perot Interferometer Assisted Microwave Photonic Filter Published in: IEEE Transactions on Instrumentation and ...

We present a giant sensitivity displacement sensor combining the push-pull method and enhanced Vernier effect. The displacement sensor consists in two interferometers that are composed by two ...

We have pioneered innovations in the displacement position sensors for over 30 years, and we work closely with applications requiring the highest precision and reliability. Our team of applications ...

In the context of metrology, spectral interferometers or spectral interference displacement sensors are used for precise measuring of various physical properties, especially in applications that involve thin ...

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