

To meet these diverse needs, the operating principles of triangulation, propagation time measurement and phase measurement in different sensor sizes and specifications are covered by a wide range of ...

An optical fiber high-precision absolute distance measurement technology that incorporates white-light interferometry and single-wavelength interferometry is presented, which is ...

Application note describes how the MTI-2100 Fotonic Sensor uses fiber optics to performs displacement measurement in gaseous or liquid media.

The fiber-optic sensor measures distance, position and changes of position with an accuracy of just a few nanometers. Automatable calibration routines ensure that the values generated are reliable and ...

As a sensing technology based on the principles of optical fiber, fiber optic sensors have gradually become key equipment in many industries due to their advantages, such as high precision, ...

One approach to taking measurements in confined spaces is to use fiber optic distance sensors. The sensors offer great flexibility and are easy to integrate into production environments thanks to the ...

PHILTEC: Custom Fiberoptic Sensors for Non-contact Measurement of Linear Distance, Displacement and Vibration

This article provides a comprehensive introduction to fiber-optic sensors, also called optical fiber sensors. It explains how these devices use optical fibers to measure quantities like temperature, ...

A critical aspect of OFDS performance is the geometry of the fiber bundle, which influences key parameters such as sensitivity, range, and dead zones. In this work, we present a ...

Learn all about various sensors--including fiber optic sensors, photoelectric sensors, laser sensors, and contact sensors--with detailed information on measurement principles and applications.



Fiber Optic Measurement

Sensor

Distance

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