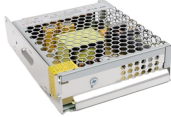


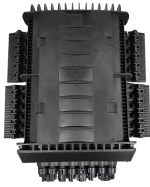
Albania Miniature Fiber Optic Sensor Case Study



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This paper presents the development of a miniature, multichannel, extended Fabry-Perot fiber-optic laser interferometer system designed for a precision SI-traceable nanoindentation application.



We present novel miniature extrinsic Fabry-Perot interferometric (MEFPI) optical fiber pressure and temperature sensors, which have the same diameter as the fiber itself.



In this article, a novel miniature Fabry-Perot twist/rotation sensor using a four core fiber and quadruple interferometer setup is presented and demonstrated. Detailed sensor modeling, analytical evaluation ...



A compact fiber-optic magnetic field sensor is proposed by packaging an orthogonal dual-frequency fiber grating laser and a copper wire with alternating electrical current together inside ...



This paper proposes a miniaturized fiber optic force sensor utilizing Fabry-Perot interferometry that achieves high-resolution needle insertion force sensing in a robust and compact ...



A miniature fiber Fabry-Perot interferometer (FFPI) for temperature measurement is proposed and demonstrated. The sensor consists of a section of single-mode fiber (SMF) tip coated ...



Abstract: This paper presents a miniature fiber-optic Pitot tube for gas flow rate measurements created at the tip of an optical fiber. The proposed all-fiber sensor employs two in ...



A miniature and highly sensitive fiber-optic liquid flowmeter based on Fabry-Perot interferometry (FPI) is proposed and demonstrated for fluid-flow micro-channel testing.



Abstract This paper reports a fiber in-line Fabry-Perot interferometer (FPI) fabricated in a no-core fiber using the direct femtosecond laser writing technique for high-temperature sensing ...



To meet the demands of this application, a real-time miniaturized fiber optic interferometric accelerometer (FOIA) based on parameter optimization of the compliant cylinder and ...

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