Fiber Optic Sensing Method for Liquid Level Measurement

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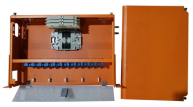
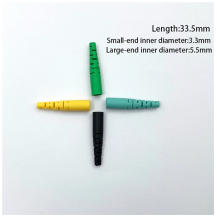
The large number types of sensors with the various principles have been used for the liquid level measurement. Because of their non-electrical nature, fiber optic sensors for a liquid level ...

Abstract: In this paper, a novel liquid level sensing system is proposed to enhance the capacity of the sensing system, as well as reduce the cost and increase the sensing accuracy. The proposed ...



By using a multimode fiber (MMF) without cladding, known as no-core fiber, liquids around the MMF modify the self-imaging properties of the MMI device and the liquid level can be detected.



Innovators at NASA''s Armstrong Flight Research Center have developed a highly accurate method for measuring liquid levels and other tank gauging applications using optical fibers.

This study presents a fiber optic liquid level sensor (FOLLS) by acquiring information from the amplitude of spectral fast Fourier transform (FFT) in a specified narrow wavelength range.

	In this work, a novel optical fiber sensor capable of measuring both the liquid level and its refractive index is designed, manufactured and demonstrated through simulations and...
	The inner ABSTRACT: In this article, a simple intensity-modulated fiber optic and outer thin layers are modeled using TDS with 2304 quadrilat- sensor for liquid level measurement is ...

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