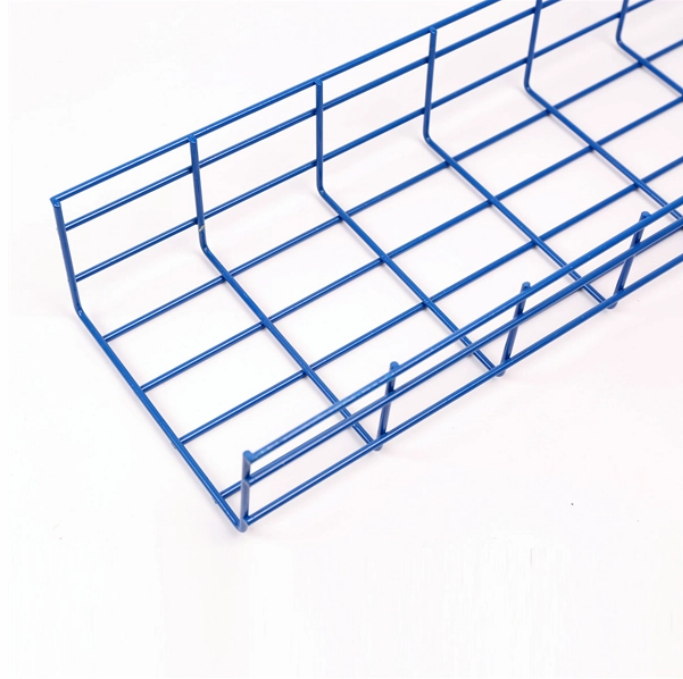


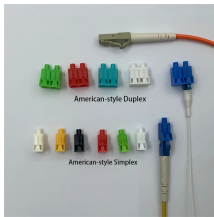
# Design of Fiber Bragg Grating Pressure Sensor



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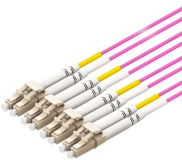
In this paper, a pressure sensor based on a metal diaphragm and lever structure is designed, the sensing principle and mechanical structure of this sensor are analyzed and simulated, ...



Abstract—This article presents a high-sensitivity fiber Bragg grating (FBG) pressure sensor with a metal diaphragm and hinge-lever structure designed for small-range pressure measurement.



Abstract: A Fiber Bragg Grating (FBG) based sensors has been designed, fabricated and is being prototyped to measure the ocean water column pressure. To measure the pressure variation, a ...



To meet the demand for high-sensitivity pressure detection, this article proposes a design method for a fiber Bragg grating (FBG) pressure sensor based on a diaphragm-lever composite structure.



The pressure sensor is an essential device for pressure measurement and safety evaluation in modern industrial production and engineering applications. A fiber Bragg grating (FBG) pressure sensor is ...



A fiber Bragg grating (FBG) pressure sensor using a composite structure comprising a square diaphragm, steel trusses, and vertical beams is proposed and studied.



By evaluating the advancements in sensor design, implementation methods, and packaging techniques, we will assess the effectiveness of FBG sensors in SHM, environmental sensing, biochemical ...



This paper presents the design & simulation of an Optical Fiber Bragg Grating (OFBG) sensor for stress, strain measurement and also demonstrates the methodology to arrive at the optimal grating pitch ...



A novel pressure sensor based on the fiber Bragg grating with square diaphragm is proposed for static ice pressure detection. The finite element analysis method is utilized to simulate ...

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