The Function of Protective Housing for Fiber Optic Sensors

Overview

Rugged casings (reinforced polymer) are made with high-quality plastics, silicone, or rubber, and have reinforced corners to protect a device from impact. For sensors, it will help absorb shock and prevent cracking. The purpose of this study was to compare the effectiveness of polyimide and nitinol protective housing designs to anchor pressure sensors to muscle tissue, prevent IMP measurement artifacts, and optimize the force-IMP correlation. Anchoring capacity was quantified as force required to dislodge. They record physical variables such as temperature, pressure, humidity or movement and translate these into electrical signals that can be processed by other systems. In smartphones. An IP rating of IP67 represents a level 6 for dust protection. Stainless steel is the perfect choice for sensor housing, especially in harsh environments. For example, the Atlas Scientific EZO Embedded Humidity Probe is weather resistant.

Article Content

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