Abstract

In this paper, we gave information about introduction to the linear position sensors, their history and classification. In the content of this document, main parameter for this type of sensors are discussed while considering their application areas. Primary advantages or disadvantages of this kind of sensors are determined by their operating style and principle. Simulation result carried out in real life represents the comparison among these sensors. Those simulations are supplied with corresponding theoretical equations and formulas. Additionally, a novel read-out signal conditioning circuitry for Linear Variable Differential Transformers (LVDT) and Magnetostriction phenomenon are discussed and provided with specific instances.

References


Index Terms

Computer Science

Applied Sciences

Keywords
Linear position sensors, LVDT, magnetostrictive sensors, linear encoders, signal conditioning