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Design Of Hall Effect Gear Tooth Speed Sensors By Using Magnetic Field Simulation



Synopsis

In this paper design of Hall Effect Gear Tooth Speed Sensors by using Magnetic Field Simulation (MFS) is proposed for shortening development time and saving high experimental costs. The MFS is implemented with the software Ansoft Maxwell. The deviation between the simulation and measured results of magnetic flux density passed through Hall IC during rotating the target gear is corrected by a proposed calibration algorithm of adapting input parameters of the MFS. The presented methods are applied to the design and optimization of speed sensor CYGTS101DC-S and its target gear. After the optimization the duty cycle of the sensor output impulse is about 50% with relative error within $\hat{\Delta}$ 2%, and the sensing gap reaches 3.5mm.

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