



Allegro MicroSystems Introduces a Three-Wire, Dynamic, Peak-Detecting, Differential Hall-Effect Sensor

Simplify your Design with the Ability to Sense Numerous Targets

Allegro MicroSystems, Inc. introduces a differential analog Hall-effect sensor that switches in response to changing magnetic fields. This new device has enhanced EMC capability that will allow users to optimize their finished sensor module by reducing their external component count, and in some cases, removing the PCB module. The combination of reduced component count, EMC enhancements, a dynamic self-calibrating algorithm, and the flexibility to sense numerous types of targets simplifies the design-in process for a wide variety of applications.

The ATS617LSG is a differential analog Hall-effect sensor that switches in response to changing magnetic fields. The device uses an analog peak-detecting algorithm, automatic gain control and an integrated tracking capacitor to provide accurate edge detection corresponding to a rotating ferrous target. The peak-detecting algorithm is ideal for use in camshaft applications with the ability to sense a wide range of target geometries including fine pitch, encoded targets.

Allegro's ATS617LSG is offered in the „SG“ magnetically integrated package. The SG is a single step over-molded package, which consists of a samarium cobalt magnet and a Hall-Effect IC, further simplifying the design-in process. It is lead (Pb) free, with 100% matte tin lead frame plating.

ATS617

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