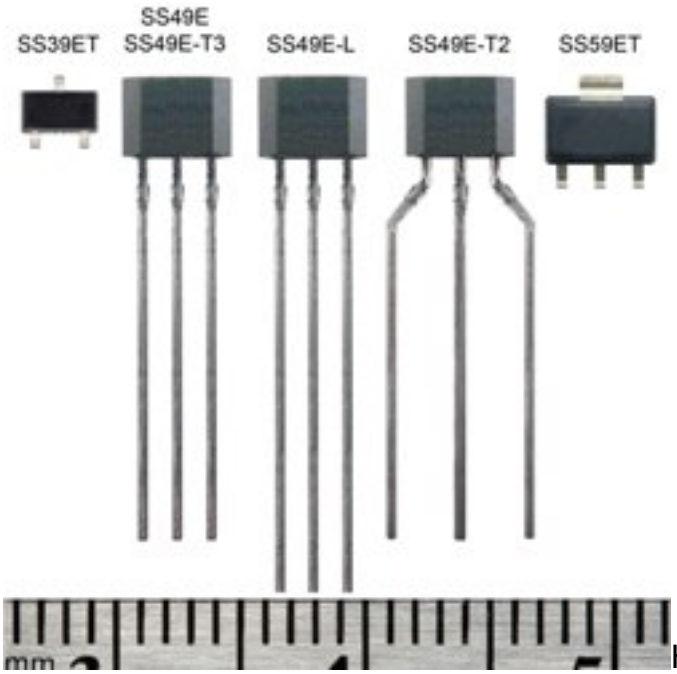
Linear Hall-Effect Magnetic Position Sensor IC



Honeywell is extending its Linear Hall-effect Sensor Integrated Circuits (IC) product line with the addition of the new SS39ET Series to its SS49E and SS59ET portfolio of low-cost Linear Hall-effect devices. With the launch of the SS39ET Series, Honeywell's Linear Hall-effect product family now consists of three package styles with different lead configurations:

- SS39ET: subminiature SOT-23 surface mount package (tape and reel format)
- SS49E: leaded flat TO-92 package (bulk packaging, 1000 units per bag), SS49E-T2 (straight leads), and SS49E-T3 (formed leads) on tape in ammopack (fan-fold) format
- SS59ET: miniature SOT-89B surface-mount package (tape and reel format)

"With the launch of the new SS39ET Series, customers can choose the package style and size to meet their application needs," said Josh Edberg, senior global product marketing manager for Honeywell Sensing and Control. "Customers will appreciate the SS39ET Series' SOT-23 subminiature footprint that takes up less space on the PC board, allowing more design flexibility and cost savings in their application."

The SS39ET Series are designed to monitor magnetic fields from a permanent magnet or an electromagnet. All packages can be supplied on tape for automated, lower-cost assembly. These devices respond to both North and South poles, and can be powered with voltages as low as 2.7 V.

A wide temperature range of -40 °C to 100 °C [-40 °F to 212 °F] allows use in many environments, and the thermally balanced, integrated circuit provides stable operation over the full temperature range. Thin film resistors improve accuracy and

provide a stable output. The energy-efficient, low current consumption of 6 mA at 5 Vdc and the 2.7 Vdc to 6.5 VDC supply voltage range allow circuit design flexibility.

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