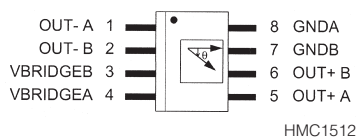
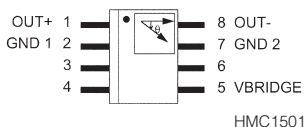


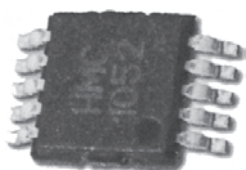
Honeywell



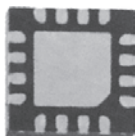
LINEAR/ANGULAR/ROTARY DISPLACEMENT SENSORS

High resolution, low power MR sensor capable of measuring the angle direction of a magnetic field from a magnet with $<0.07^\circ$ resolution. Direction versus field strength include: insensitivity to the tempo of the magnet, less sensitivity to shock and vibration, and the ability to withstand large variations in the gap between the sensor and magnet. These sensors may be operated on 3 volts with bandwidth response of 0-5 MHz. Output is typical Wheatstone bridge. **FEATURES AND BENEFITS:** The HMC1501 and HMC1512 can function with Alnico or ceramic type magnets HMC1501—angular range of $\pm 45^\circ$ with $<0.07^\circ$ resolution, HMC1512—angular range of $\pm 90^\circ$ with $<0.07^\circ$ resolution. Linear range of 8mm with two sensors mounted on two ends; range may be increased through multiple sensor arrays operating together. Sensors know the exact position and require no indexing for proper positional output. No moving parts to wear out; no dropped signals from worn tracks. Available in an 8-pin surface mount package with case dimensions (exclusive of pins), of 5mm x 4mm x 1.2mm total mounting envelope, with pins of less than 6mm square.

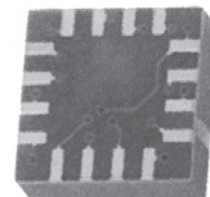
Cat. No.	Power Supply	Full Scale Output Range	Net Price
HMC1501	5V	120mV	\$24.94
HMC1512	5V	120mV	24.94



HMC 1052



HMC 1052L

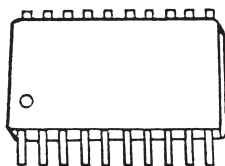


HMC 1053

ULTRA SMALL MAGNETIC SENSORS TWO AND THREE AXIS

The HMC105X family of magnetoresistive sensors is the ideal solution for applications requiring ultra small sensors. In addition to being the smallest size sensor available from Honeywell, they are capable of sensing fields below 100 micro-gauss. The HMC105X family of sensors are optimized for low-cost compassing and include several miniature package configurations. Applications include: compassing, navigation systems and heading/pointing.

Cat. No.	Package Style	Field Range	Resolution	Linearity	Net Price
HMC 1052	Two axis—MSOP10	± 6 Gauss	120 Micro gauss	0.05% Full Scale over the ± 1 gauss midpoint	\$24.94
HMC 1052L	Two axis—16-pin LCC	± 6 Gauss	120 Micro gauss	0.05% Full Scale over the ± 1 gauss midpoint	24.94
HMC 1053	Three axis—16-pin LCC	± 6 Gauss	120 Micro gauss	0.05% Full Scale over the ± 1 gauss midpoint	76.89



HMC1002
HMC1001

MAGNETIC SENSORS AND HIGH-TEMP ICs TYPE HMC1 SINGLE AND DUAL AXIS MAGNETIC SENSOR

Single and dual axis magnetic sensor for use in highest precision applications, such as currency detection, virtual reality headsets and compass heading electronics where precise understanding of direction or position is required. Two solid state sensors in single plastic package provide 0-10 MHz frequency response, operation over -55°C to $+125^\circ\text{C}$ and patented set/reset function for nulling out the effects of unwanted ambient magnetic fields. Unamplified voltage output.

Cat. No.	Field Range	Resolution	Full Scale Output	Net Price
HMC1002	± 2 Gauss	40 μ Gauss	50mV	\$27.43
HMC1001	± 2 Gauss	40 μ Gauss	50mV	24.94