

Expanding range of AMR Sensors – Including Horizontal and Vertical

Willow Technologies Limited (www.willow.co.uk) announces the launch of Murata's expanded range of AMR sensors to include horizontal and vertical sensing, the AS-M and AS-V series of anisotropic magneto resistance (AMR) sensors.

The AS-M and AS-V series detection technique provides a non-contact magnetic sensor of high sensitivity for use in a relatively low magnetic field. These extremely small devices, the smallest measuring just 1.2 x 1.2 x 0.37 mm, can detect a magnetic field in either a horizontal or vertical direction.



Said Martin Pearce, Managing Director, Willow Technologies Limited, “Compared to traditional magnetic switch components, such as a reed switch or Hall effect IC, AMR sensors have higher detection sensitivity, are more robust and offer a wider detection area.”

Aimed at a broad range of consumer electronics devices, these cost effective sensors are ideally suited to open / close detection applications for mobile phones and note book PCs, in addition to use in consumer white goods, industrial and security equipment.

The AS-M series provides horizontal sensing across a wide detection area; this allows a more flexible approach to sensor and magnet mounting location, compared to a Hall effect IC. Within the series, the AS-M15SAH-R and AS-M15KAH-R sensors feature a narrow range of sensitivity, from 0.5 to 1.6mT that suit high accuracy applications. The AS-M15SA-R and AS-M15KA-R parts have a wide sensitivity range, from 0.5 to 2.2mT and are aimed at lower cost designs.

The AS-V series provides vertical magnetic field detection, and is designed as a more cost effective replacement for Hall IC designs.

“Both the AS-M series and AS-V series have the same land compatibility as SOT23 and SON4, and are suitable for reflow soldering,” concludes Pearce.

Editor Information

Founded in 1989, Willow Technologies is located in Copthorne, Surrey, UK. We provide electronic solutions to customers by designing, manufacturing and supplying components and systems globally to the electrical and electronic marketplace. Specialists in switching, sensing, resistive and hermetic seal solutions we have a wide portfolio of sensing technologies and over 60 years of application experience. Our in-house engineering capability and rapid prototyping facility for custom parts enable us to develop products to match specific application requirements. Willow is ISO9001:2000 registered.

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