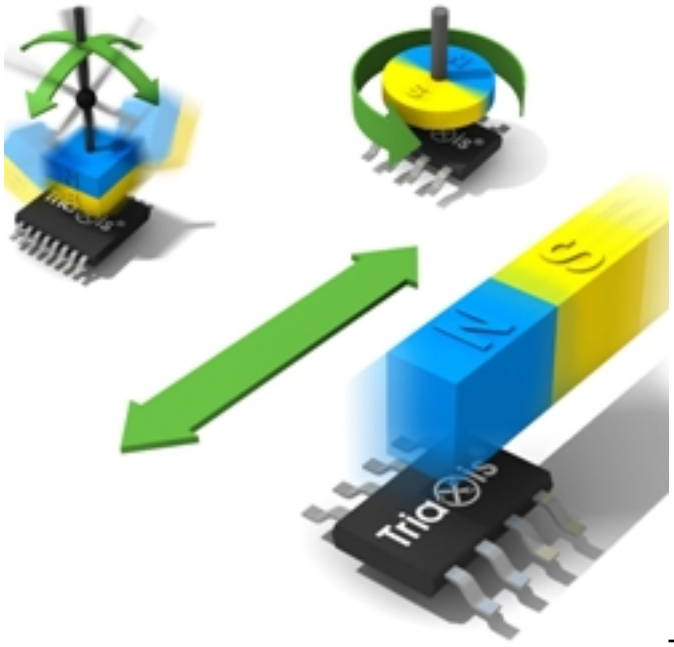
Non-Contact Triaxis Sensors Deliver Linear, Rotary and 3D Position Information



The second generation of Triaxis sensors from Melexis addresses a variety of position sensing requirements in advanced device and subsystem control as well as in human/machine interfaces. The MLX90360 and MLX90363 chips for Linear, Rotary and 3D non-contact position sensing are available in single and dual redundant implementations to cost-effectively address the full range of applications, including safety critical sensing requirements.

The MLX90360 provides analog or PWM output with fully programmable capabilities to simplify application development. Linear or rotary position sensing with direct, point-to-point, connection to the control electronics and in circuit “programming through the connector” highlight the value of the MLX90360. Designed to be paired with an off-the-shelf microcontroller, the MLX90363 relies on SPI output communication. The range of position sensing applications are limitless and constrained only by the imagination of the designer. 3D, rotary, linear or even mixed mode implementations can be accomplished through embedded software in the customer’s microcontroller.

All internal raw and conditioned signals from the IMC (Integrated Magneto Concentrator) Triaxis sensor can be communicated over the SPI channel. This puts the Bx, By and Bz information directly accessible for processing by the embedded microcontroller. Data from the on chip temperature sensor and from the internal chip diagnostics can also be digitally transmitted. Programming happens through

the same channel.

Sensing is the key to advanced control and next generation system evolution. Melexis Triaxis sensors make it possible to accomplish control and integration in ways previously impossible. Let us help you solve your microelectronic sensing challenges with our passion for mutual success.

Product info: www.melexis.com/triaxis [1]

Source URL (retrieved on *07/10/2014 - 7:18am*):
http://www.wirelessdesignmag.com/product-releases/2011/05/non-contact-triaxis-sensors-deliver-linear-rotary-and-3d-position-information?qt-blogs=0

Links:
[1] http://www.melexis.com/triaxis