Product Information

MLX90316

Absolute Rotary Position Sensor IC

The MLX90316 is a monolithic sensor IC featuring the TriaxisTM Hall technology. Conventional planar Hall technology is only sensitive to the flux density applied orthogonally to the IC surface. The TriaxisTM Hall sensor is also sensitive to the flux density applied parallel to the IC surface.

The MLX90316 senses the absolute rotary (angular) position of a diametrically magnetized magnet rotating above it. It enables the design of novel generation of non-contact rotary position sensors that are frequently required for both automotive and industrial applications.





Applications

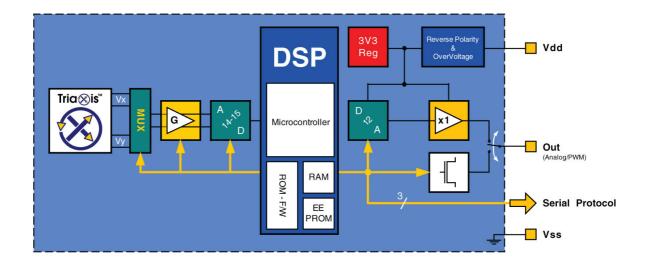
- Absolute Rotary Position Sensor
- Steering Wheel Position Sensor
- Pedal Position Sensor
- Throttle/EGR Valve Position Sensor
- Height Sensor
- Non-Contacting Potentiometer
- Float-Level Sensor

Features

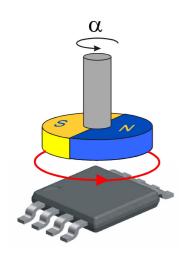
- Absolute Rotary Position Sensor IC
- Triaxis[™] Hall Technology—Non Contact
- Full 360 Degrees or limited Angle Applications
- 12-bit Resolution on 360 Degrees of Rotation
- 10-bit Angular Accuracy
- Simple & Robust Magnetic Design
- 40-bit ID Number
- Programmable Linear Transfer Characteristic
- Selectable Analog (Ratiometric), PWM or Serial Protocol
- Single Die SO8 Package RoHS Compliant
- Dual Die (Full Redundant) TSSOP16 Package RoHS Compliant

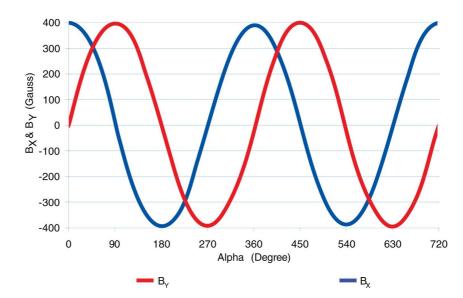


Functional Diagram



Typical Application





We Engineer The Sustainable Future Melekis Melexis Melexis Microelectronic Integrated Systems

For additional information email **info@melexis.com** or go to our website at: **www.melexis.com**

Disclaimer:

Devices sold by Melexis are covered by the warranty and patent indemnification provisions appearing in its Term of Sale. Idelexis makes no warranty, express, statutory, implied, or by description regarding the information set forth herein or egarding the freedom of the described devices from patent infringement. Melexis reserves the right to change pecifications and prices at any time and without notice. Therefore, prior to designing this product into a system, it is lecessary to check with Melexis for current information. This product is intended for use in normal commercial pipications, such as military, medical life-support of life-systeming equipment are specifically not recommended without publications, such as military, medical life-support of life-systeming equipment are specifically not recommended without courale. However, Melexis shall not be liable to recipient or any third party for any damages, including but not limited to personal injury, property damage, loss of profits, loss of use, interrupt of business or indirect, special incidental or consequential damages, of any kind, in connection with or arising out of the furnishing, performance or use of the echnical or other services. © 2010 Melexis NV. All rights reserved.