

App Note: Hall Sensor for High Reliability Brushless DC Motors

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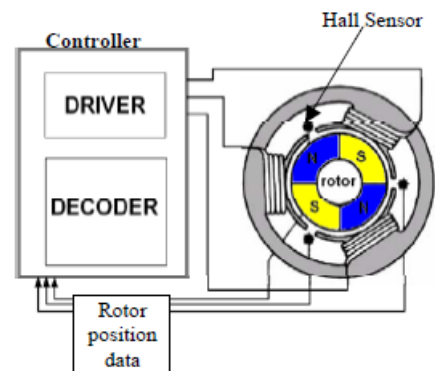
Application

High Reliability Brushless DC Motors are used in many critical applications such as military, space and medical industries for functions requiring linear or rotary motion.



Requirement

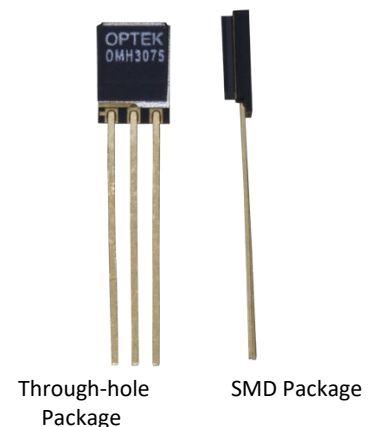
An electronic-controlled commutation system controls and monitors the speed and direction of the motor by precisely delivering a rapid-changing current to the electromagnets and determining the rotor's orientation and position. Bipolar Hall sensors can be used to provide the precise rotor's positioning and speed data required by the controller.



Solution

OMH3075 Series—Bipolar Hall Effect Sensors

- Bi-polar Latching
- Hermetic Ceramic Package
- Operates over a broad range of supply voltages
- Excellent temperature stability
- Operates in harsh environments
- Suitable for military and space applications
- Processing patterned after Class B or Class S of MIL-STD-883 available
- Design for non-contact switching operation
- Low power consumption
- Passed Radiation Harness Testing up to 350Krad (si) per MIL-STD-883



OMH3075
Bipolar Hall Effect Sensor

General Note

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