Honeywell

Honeywell Sensing and Control

Home> Products > Speed and Direction> SNDH> Product Page

- Order Product and **Get Support**
- U.S. Authorized Distributors
- Global Sales & Service
- N. American Sales Reps
- Distributor Inventory
- Technical Assistance
- White Papers
- Literature Request
- Test and Measurement Catalog
- RoHS Product List
- Customer Feedback



Quadrature speed and direction sensor

Potential Applications Hall-effect magnetic sensing technology Steering position Advanced performance dynamic offset Tachometers/counter Encoders Speed and direction of gears and Air gap up to 2 mm [0.08 in] shafts in transmissions, hydraulic Automotive under-the-hood packaging motors, pumps and gear boxes

High frequency switching capability (up to 15 kHz) -40 °C to 150 °C [-40 °F to 302 °F] continuous operating temperature Multiple connector options Short circuit protection Reverse voltage protection Open collector output Low jitter output

O-ring seal Description

Features

integrity EMI hardened

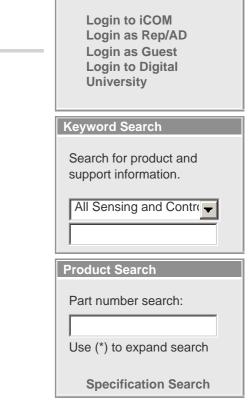
self calibration

Near zero speed

The SNDH Series is a dual differential hall sensor that provides speed and direction information using a quadrature output with signals 90 degree phase shifted from each other. Target direction is determined by output ead/lag phase shifting. This product is designed for applications where extremely high resolution is required at wide frequency ranges, 0 kHz to 15 kHz, and large air gaps. BiCMOS (bipolar complementary metaloxide-semiconductor) Hall-effect technology, using advanced digital signal processing for dynamic off-set cancellation, provides enhanced air gap performance and phase shift accuracy over most conditions. Unique patented (pending) IC (integrated circuit) packaging provides output phase shift tolerancing with enhanced accuracy.

The robust package is automotive under the hood grade for most environmental conditions as well as EMI (electromagentic interference) hardened. Multiple connection options, including wire harness and integral connector versions using AMP super seal or AMP Jr. Timer connectors, are available. Package design includes an o-ring seal for pressure applications and a fixed mounting flange.

Supporting Documentation Installation Instructions	heet Engineering Drawing
Product Specifications	
Sensing Type	Quadrature speed and direction
Housing Diameter	15 mm [0.6 in]
Barrel Length	45 mm [1.77 in]
Vdc Supply	4.5 Vdc to 18 Vdc
Operating Frequency Range	0 Hz to 15 kHz
Operating Temperature	- 40° to 150° C [- 40 °F to 302 °F]
Connections	500 mm [19.7 in] leads
Availability	Global
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Series Name	SNDH



My Links

Terms & Conditions | Privacy Statement Site Map