Honeywell

Honeywell Sensing and Control

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SNDH-T4P-G02

Actual product appearance may vary.

Quadrature speed and direction sensor

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Specification Search

Features

Hall-effect magnetic sensing technology
Advanced performance dynamic offset self calibration
Air gap up to 2 mm [0.08 in]
Near zero speed
Automotive under-the-hood packaging integrity
EMI hardened
High frequency switching capability (up to 15 kHz)
-40 ºC to 150 ºC [-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

Potential Applications

Steering position
Tachometers/counter
Encoders
Speed and direction of gears and shafts in transmissions, hydraulic motors, pumps and gear boxes

Description

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 metal-oxide-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 | Product Sheet | 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	AMP 4 -pin connector
Availability	Global
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Series Name	SNDH