Honeywell

Honeywell Sensing and Control

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SS40F Low-Cost Enhanced Bipolar Hall-Effect Digital Position Sensor; radial lead IC package, factory tested at 25 °C

Actual product appearance may vary.

Features

Miniature construction: 3.0 mm x 4.0 mm [0.12 in x 0.16 in] plastic package Power consumption of only 5 mA max at 4.5 Vdc for energy efficiency Bipolar magnetics for ring magnet applications High speed: operates from 0 kHz to over 100 kH High output current capability Broad temperature range of -40 °C to 125 °C [40 °F to 257 °F] Built-in reverse polarity protection

Speed and RPM (revolutions per minute sensing Brushless dc (direct current) motor commutation Motor and fan control Tachometer, counter pickup Flow rate sensing

Potential Applications

Description

The SS40F/SS40G Enhanced LowCost Bipolar Hall Effect Sensors are small, versatile digital Halleffect devices that are operated by the magnetic field from a permanent magnet or an electromagnet. These products are designed to provide a level of compensation for magnetic changes over a range of temperatures. The bipolar magnetics respond to alternating North and South poles. A builtn regulator provides enhanced stability of operation over 4.5 Vdc to 24 Vdc supply voltage range, and internal circuitry is designed to prevent sensor damage in case the supply voltage polarity is accidentally reversed. The open collector sinking output voltage is easily interfaced with a wide variety of electronic circuits. The SS40F is factory tested at 25 °C [77 °F] and the SS40G is factory tested at both 25 °C [77 °F] and 125°C [257 °F]. Products ordered in bulk packaging (plastic bags) may not have perfectly straight leads as a result of normal handling and shipping operations. Please order tape packaging option for applications with critical lead straightness requirements.

Supporting Documentation Engineering Drawing

Product Specifications	
Product Type	Hall - Effect Digital Position Sensor IC
Package Quantity/Type	Available in 1,000/Bag
Package Style	Radial Lead IC
Supply Voltage	3.8 Vdc to 30.0 Vdc
Output Type	Sink
Termination Type	PC Board
Magnetic Actuation Type	Bipolar
Operating Temperature Range	-40 °C to 125 °C [-40 °F to 257 ° F]
Storage Temperature	- 55 °C to 165 °C [- 67 °F to 329 ° F]
Output Voltage	0.4 Vdc max.
Switching Time Rise (10 % to 90 %)	1.5 μ s max.
Switching Time Fall (90 % to 10 %)	1.5 μ s max.
Availability	Global
Supply Current (max. @ 25 °C)	10 mA
Output Current (max.)	20 mA
Operate Point @ 25 °C	11.0 mT [110 G] max.
Release Point @ 25 °C	- 11.0 mT [- 110 G] min.
Leakage Current max.	1 μ Α
Differential	5.0 mT [50 G] min.
Series Name	SS40



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