

Honeywell Sensing and Control

Home> Products > PCB level Position Sensors (Miniature Plastic package) > SS40 > 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
- RoHS Product List
- Customer Feedback

SS41D

Image Not Available

SS40 Series Bipolar Hall-Effect Digital Position Sensor; radial lead IC package

Features

Small size
Reverse power polarity protection
Current sinking output
Sensitive magnetic characteristics
Operating speed from 0 kHz to over 100
kHz

Potential Applications

Speed and RPM sensor Brushless DC motor commutation Motor and fan control Magnetic encoding Tachometer, counter pickup Disc speed, tape rotation sensing Flow -rate sensing

Description

SS41-Series Bipolar Hall Effect sensors respond to alternating North and South poles.

A built-in regulator provides stable operation over 4.5 Vdc to 24 Vdc supply voltage range, and internal circuitry prevents sensor damage in case the supply voltage polarity is accidentally reversed. The SS41 Series Bipolar Hall-effect sensors are small, versatile digital Hall-effect devices that are operated by the magnetic field from a permanent magnet or an electromagnet. The open-collector sinking output voltage is easily interfaced with a wide variety of electronic circuits.

NOTE: These digital Hall sensors have an operating temperature range of -40 C to 125 C [-40 F to 257 F], appropriate for commercial, consumer, and industrial environments.

Supporting Documentation

Required
Accessories—
Magnets

Engineering Drawing

Product Specifications	
Product Type	Hall-Effect Digital Position Sensor IC
Package Style	Radial Lead IC
Supply Voltage	4.5 Vdc to 24.0 Vdc
Output Type	Sink
Termination Type	PC Board
Magnetic Actuation Type	Bipolar
Operating Temperature Range	-40 °C to 150 °C [-40 °F to 302 ° F]
Storage Temperature	-40 °C to 150 °C [-640 °F to 302 °F]
Output Voltage	0.4 Vdc max.
Switching Time Rise (10 % to 90 %)	1.5 μs max.
Switching Time Fall (90 % to 10 %)	1.0 µs max.
Availability	Global
Supply Current (max. @ 25 °C)	15 mA
Output Current (max.)	20 mA
Operate Point @ 25 °C	34.0 mT [340 G] max.
Release Point @ 25 °C	-34.0 mT [-340 G] min.
Leakage Current max.	10 μΑ
Differential	4.0 mT [40 G] min.
Series Name	SS40

Site Map

Product Search
Part number search:
Use (*) to expand search
Specification Search