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SS443A-R



SS400 Series Unipolar Hall-Effect Digital Position Sensor; radial lead IC package; Short leads

Features

Digital current sinking output
 Quad-Hall design virtually eliminates mechanical stress effects
 Temperature compensated magnetics
 Operate/release points can be customized
 High output current capability
 Operate/release points symmetrical around zero gauss (bipolar/latch)
 Package material: Plaskon 3300H
 Surface mount version available: SS400-S (with cut and formed leads)

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

SS400 Series position sensors have a thermally balanced integrated circuit over full temperature range. The negative compensation slope is optimized to match the negative temperature coefficient of lower cost magnets. Bipolar, latching and unipolar magnetics are available.

Band gap regulation provides extremely stable operation over 3.8 Vdc to 30 Vdc supply voltage range.

NOTE: Interruption of power to a latching device may cause the output to change state when power is restored. If a magnetic field of sufficient strength is present, the sensor output will be in the condition dictated by the magnetic field.

Supporting Documentation

- **Required Accessories—Magnets**

Product Specifications	
Product Type	Hall-Effect Digital Position Sensor IC
Package Style	Radial Lead IC, 0.130 in leads
Supply Voltage	3.8 Vdc to 30.0 Vdc
Output Type	Sink
Termination Type	PC Board
Magnetic Actuation Type	Unipolar
Operating Temperature Range	-40 °C to 150 °C [-40 °F to 302 °F]
Storage Temperature	-65 °C to 160 °C [-85 °F to 320 °F]
Output Voltage	0.4 Vdc max.
Switching Time Rise (10 % to 90 %)	1.5 µs max.
Switching Time Fall (90 % to 10 %)	1.5 µs max.
Availability	Global
Supply Current (max. @ 25 °C)	10 mA
Output Current (max.)	20 mA
Operate Point @ 25 °C	18.0 mT [180 G] max.
Release Point @ 25 °C	7.5 mT [75 G] min.
Leakage Current max.	10 µA
Differential	0.5 mT [5 G] min.
Series Name	SS400

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