Honeywell

Honeywell Sensing and Control

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Product Search

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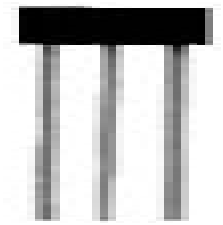
Specification Search

SS443A-S



Actual product appearance may vary.

SS400 Series Unipolar Hall-Effect Digital Position Sensor; surface mount package

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

Dimensions
Operate and Release Point
Required Accessories—Magnets
Tape and Reel Dimensions
Engineering Drawing

Product Specifications	
Product Type	Hall-Effect Digital Position Sensor IC
Package Quantity/Type	Available in 1,000/Bag
Package Style	Surface Mount
Supply Voltage	3.8 Vdc to 30.0 Vdc
Output Type	Sink
Termination Type	Surface Mount
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