

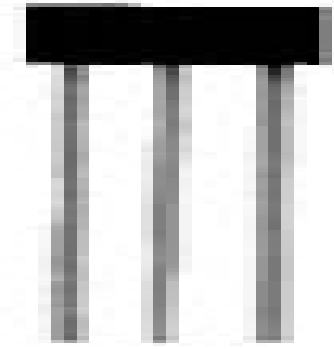


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### SS461A-S



Actual product appearance may vary.

**SS400 Series Latching 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	Bipolar Latch
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	8.5 mT [85 G] max.
Release Point @ 25 °C	-8.5 mT [-85 G] min.
Leakage Current max.	10 µA
Differential	5.0 mT [50 G] min.
Series Name	SS400

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