

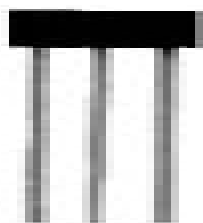


Home > Products > PCB level Position Sensors (Miniature Plastic package) > SS400  
> Product Page

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### SS449A-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: Flakon 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 magnetics. 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              | 39.0 mT [390 G] max.                   |
| Release Point @ 25 °C              | 23.5 mT [235 G] min.                   |
| Leakage Current max.               | 10 µA                                  |
| Differential                       | 3.0 mT [30 G] min.                     |
| Series Name                        | SS400                                  |

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