

Honeywell Sensing and Control



SS443A



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

Actual product appearance may vary.

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

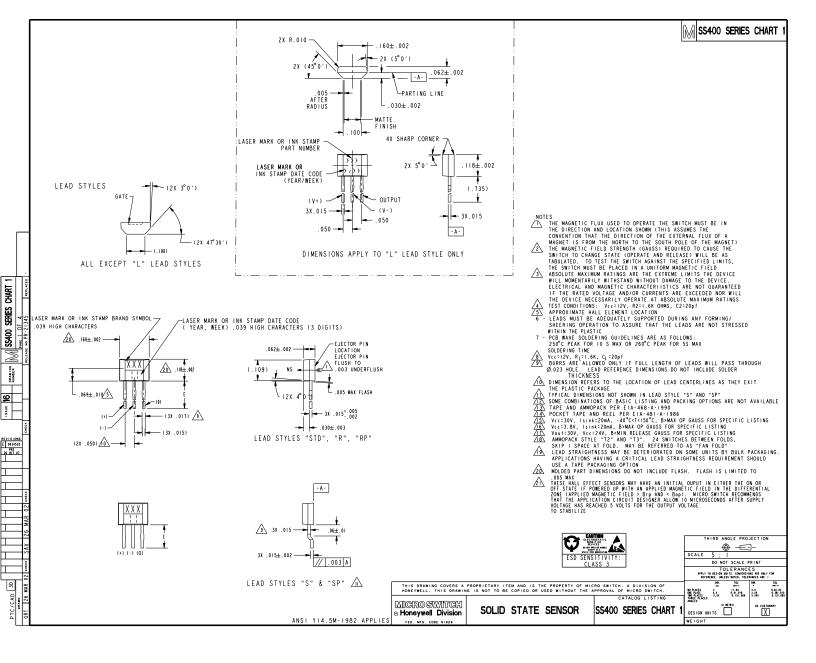
Description

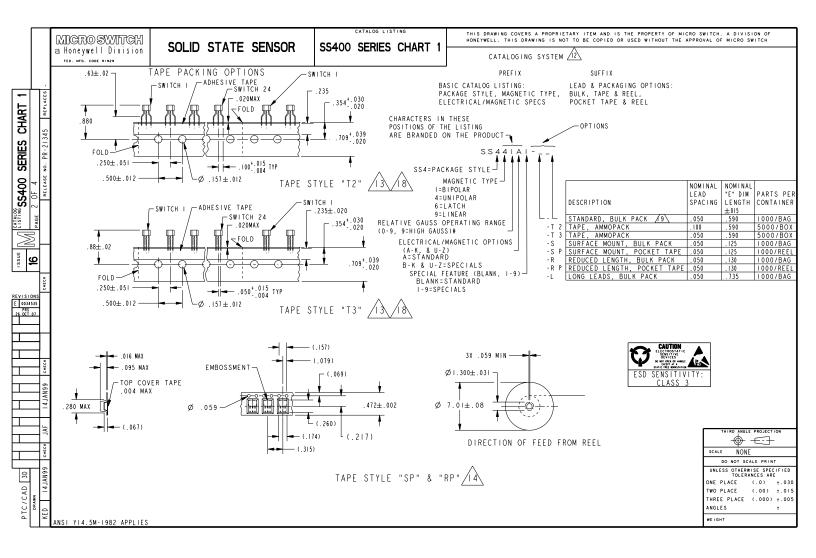
SS400 Series position sensors have a thermally balanced integrated circuit over full temperature range. The negative compensation slope is optimized to match the negative temperature coefficient of lower cost magnets. Bipolar,latching and unipolar magnetics are available.

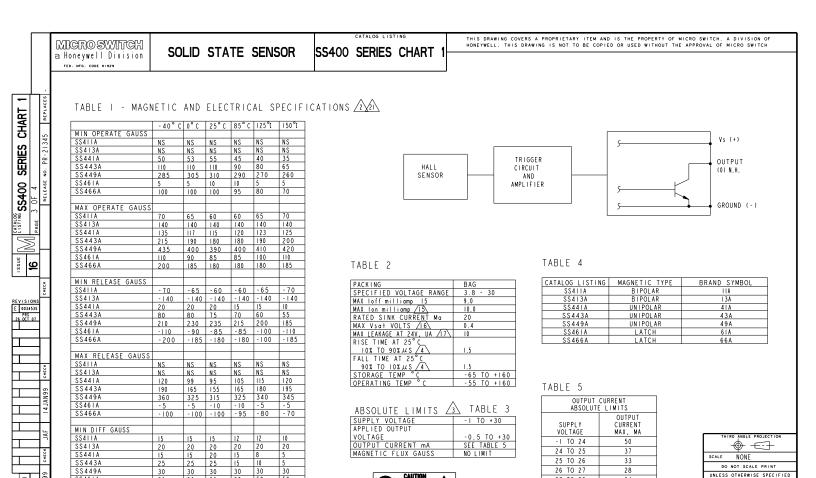
Band gap regulation provides extremely stable operation over 3.8 Vdc to 30 Vdc supply voltage range.

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.

Product Specifications	
Product Type	Hall-Effect Digital Position Sensor IC
Package Quantity/Type	Available in 1,000/Bag
Package Style	Radial Lead IC
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 μΑ
Differential	0.5 mT [5 G] min.
Series Name	SS400







ESD SENSITIVITY:
CLASS 3

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE (.0) ±.030 TWO PLACE (.00) ±.015

THREE PLACE (.000) +.005

SCALE NONE

ANGLES WEIGHT

24 TO 25

25 TO 26

26 TO 27

27 TO 28

28 TO 29

29 TO 30

33

24

19

20

30

ANSI YI4.5M-1982 APPLIES

50 200

20

30

50 50 200 200

30

50 190

П

П

PTC/CAD 30

