Honeywell

Interactive Catalog Replaces Catalog Pages

Honeywell Sensing and Control has replaced the PDF product catalog with the new Interactive Catalog. The Interactive Catalog is a power search tool that makes it easier to find product information. It includes more installation, application, and technical information than ever before.



Click this icon to try the new Interactive Catalog.

Sensing and Control

Honeywell Inc. 11 West Spring Street Freeport, Illinois 61032 (automotive)environments.

- Temperature compensated for consistent operation with low-cost magnets (SS500).
- SS5 Package is resistant to thermal and mechanical stress.
- SS5 profile is lower than other SOT-89 packages.
 This allows the customer to reduce the total gap.
- Industry standard "gull-wing" design. Less susceptibility to "solder bridging". Allows increased circuit board density.
- Bipolar, unipolar and latching magnetics.
- Low Gauss versions available for high accuracy or wide gap applications.
- SS5 package allows 4-pin package designs

TYPICAL APPLICATIONS

- · Brushless DC motors
- Digital current sensor
- Anti-skid braking sensor
- Piston detection in hydraulic cylinder
- Valve position sensing
- Cam, lever, shaft position sensing
- Tachometer, counter pickup
- Push-button sensor
- Disk speed, tape rotation, flow rate sensing
- Speed sensing rate, under, over speed
- · Remote reading sensor
- Magnetic card reader

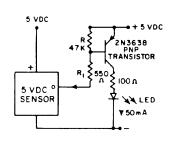
SS5 Series Hall effect position sensors are operated by the magnetic field from a permanent magnet or electromagnet. The small SOT89 style package surface mounts on PC boards and flexible circuits. The SS5 uses a industry standard "gull-wing" design which makes it less susceptible to "solder bridging" and allows increased circuit board density. The SS5 series package can accommodate larger IC's than SS1 and allows for four-pin designs

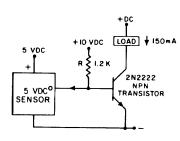
The integrated circuits are designed to provide predictable performance over the full temperature range of -40 to +150°C. Bipolar, unipolar and latching magnetics are available. The SS5 has the same footprint and pinout as the industry standard SOT-89. It will replace Honeywell SS1 Series and any equivalent SOT-89 sensors from other suppliers with minimum or no design changes.

On-board regulation provides extremely stable operation over the full supply voltage range of 4.5 to 24 VDC(SS51T) or 3.8 to 30 VDC(SS500). Current consumption is a low 10 mA maximum at 40°C and is typically 7mA or less at room temperature and above. SS5 sensors are capable of continuous 20 mA sinking output, and can withstand temporary current as high as 20 mA maximum (SS51T) or 50 mA maximum (SS500). They can use existing power supply sources in most applications, and can be directly interfaced with many electronic components without buffering or compensation circuitry.

SS5 Series sensors are supplied on tape and reel for high-volume, automated pick and place equipment. Each reel contains 1,000 sensors.

MICRO SWITCH supplies bar and ring magnets for operating Hall effect sensors. Bar magnets can operate any Hall effect sensor. Ring magnets are magnetized on the outside diameter with alternating North and South poles. They are particularly useful with bipolar sensors and rpm measurement.





	condition)				
Output ON Current	20 mA max.	50 mA max.			
Temperature Limits					
Operating	-40 to +150°C (-40 to +302°F)	-50 to +160°C (-46 to +320°F)			
Storage	-40 to +150°C (-40 to +302°F)	-65 to +160°C (-54 to +320°F			
Magnetic Flux	No limit. Circuit cannot be damaged by magnetic overdrive.	No limit. Circuit cannot be damaged by magnetic overdrive.			

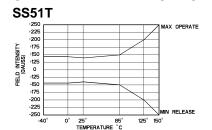
Stresses greater than those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operations section for extended periods of time may affect reliability.

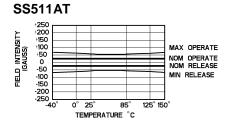
OPERATING CHARACTERISTICS

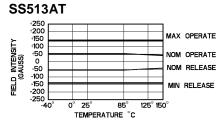
	SS51T	SS500	Remarks	
Supply Voltage	4.5 to 24 VDC	3.8 to 30 VDC		
Current Consumption (loff)	10 mA	10 mA	Max over temp	
Output Voltage (operated)	0.4 V	0.4 V	Sinking 20 mA	
			max.	
Output Current (operated)	20 mA	20mA		
Output Leakage Current	10 μΑ	10μΑ		
Output Switching Time			$V_{CC} = 12 V$,	
Rise, 10 to 90%	1.5 μs	1.5 μs	$R_L = 1.6 \text{ K Ohm},$	
Fall, 90 to 10%	1.5 μs	1.5 μs	C _L = 20 pF	
Operating Temperature; °C	-40 to +150°C	-40 to +150°C		

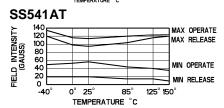
	Min. Dif.	40	15	20	15	25	30	50	200
0°C	Мах. Ор.	145	65	140	117	190	400	90	185
	Min. Rel.	-145	-65	-140	20	80	230	-90	-185
	Min. Dif.	50	15	20	18	25	30	50	200
25°C	Мах. Ор.	140	60	140	115	180	390	85	180
	Min. Rel.	-140	-60	-140	20	75	235	-85	-180
	Min. Dif.	50	15	20	20	25	30	50	200
85°C	Max. Op.	150	60	140	120	180	400	85	180
	Min. Rel.	-150	-60	-140	15	70	215	-85	-180
	Min. Dif.	50	12	20	15	15	30	50	190
125°C	Max. Op.	200	65	140	123	190	410	100	180
	Min. Rel.	-200	-65	-140	15	60	200	-100	-180
	Min. Dif.	60	12	20	8	10	30	50	160
150°C	Мах. Ор.	250	70	140	125	200	420	110	185
	Min. Rel.	-250	-70	-140	10	55	185	-110	-185
	Min. Dif.	NS	10	20	5	5	30	50	140

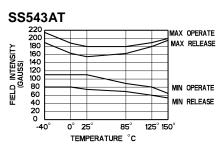
OPERATE AND RELEASE POINTS

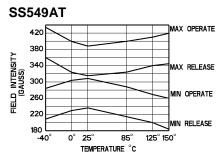


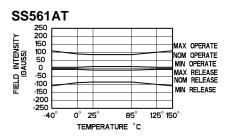


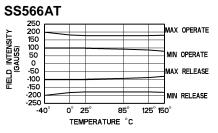












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While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact a nearby sales office. Or call:

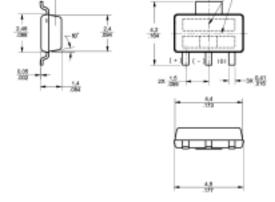
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FAX

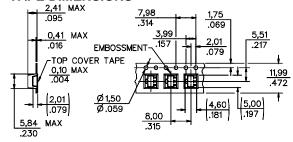
1-815-235-6545 USA

INTERNET

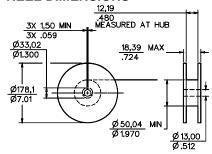
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TAPE DIMENSIONS



REEL DIMENSIONS



Honeywell

Sensing and Control

Honeywell Inc. 11 West Spring Street Freeport, Illinois 61032



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