

# HONEYWELL Sensors



RoHS Compliant This product is RoHS compliant.

# Honeywell

Sensing and Control

## PCB LEVEL POSITION SENSORS

### Ceramic Package - Linear Hall

The SS utilizes a Hall effect integrated circuit chip which provides increased temperature stability and performance. Laser trimmed thick film resistors on the ceramic substrate and thin film resistors on the integrated circuit reduce null and gain shifts over temperature which results in consistent sensitivity from one device to the next.

APPLICATION CONSIDERATION: The output is clamped at the high end. Clamping voltage may be as low as 9 Vdc. The output will not exceed the clamping voltage regardless of field strength or power supply.



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For quantities of 100 and up, call for quote.

MOUSER STOCK NO.	Honeywell Part No.	Fig.	Supply Voltage (V)	Supply Current (max.)	Magnetic Range (mT)	Output Current	Price Each		
							1	10	50
<b>PC Board</b>									
*785-SS94A2	SS94A2	A	6.6 to 12.6	30mA	-50 to 50	1mA	2.58	19.75	18.74
785-SS94A1F	SS94A1F	A	6.6 to 12.6	30mA	-10 to 10	1mA	19.90	15.42	13.60
785-SS94A1	SS94A1	A	6.6 to 12.6	30mA	-50 to 50	1mA	19.90	15.42	13.60
785-91SS12-2	91SS12-2	A	8.0 to 16.0	19mA	-40 to 40	10mA	12.54	9.41	8.52

\*Noise Shielded

### Magnetic Position Sensors



The temperature compensated Hall effect sensor consists of a quad Hall sensing element in a square integrated circuit chip, which is then encapsulated in a glass-filled thermoset molding material. The small SOT89 style package surface mounts on PC boards and flexible circuits.



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MOUSER STOCK NO.	Honeywell Part No.	Fig.	Supply Voltage (Vdc)	Output Voltage (Vdc)	Operate/Release Point (mT)	Magnetic Actuation	Price Each		
							1	10	50
<b>Surface Mount</b>									
785-SS549AT	SS549AT	B	3.8 to 30.0	0.4	39.0/23.5	Unipolar	1.79	1.70	1.62
785-SS543AT	SS543AT	B	3.8 to 30.0	0.4	18.0/7.5	Unipolar	.90	.89	.82
785-SS541AT	SS541AT	B	3.8 to 30.0	0.4	11.5/2.0	Unipolar	.90	.78	.59
785-SS50AT	SS50AT	B	4.5 to 24.0	0.4	17.0/-17.0	Bipolar	2.03	1.61	1.33
785-SS511AT	SS511AT	B	3.8 to 30.0	0.4	6.0/-6.0	Bipolar	1.65	1.35	1.13
785-SS513AT	SS513AT	B	3.8 to 30.0	0.4	14.0/-14.0	Bipolar	1.70	1.63	1.48
785-SS59ET	SS59ET	B	2.7 to 6.5	0.95	-65.0 to 65.0	Ratiometric	1.71	1.45	1.28
785-SS311PT	SS311PT	C	2.7 to 7.0	--	14.0/3.0	Bipolar Latch	.61	.56	.52
785-SS341RT	SS341RT	C	3.0 to 24.0	--	13.5/12.0	Unipolar	.80	.74	.68
785-SS343RT	SS343RT	C	3.0 to 24.0	--	19.5/18.0	Unipolar	.77	.71	.65
785-SS345PT	SS345PT	C	2.7 to 7.0	0.4	18.0/10.5	Unipolar	1.23	1.13	.88
785-SS349RT	SS349RT	C	3.0 to 24.0	--	41.0/31.0	Unipolar	.77	.71	.65
785-SS351AT	SS351AT	C	3.0 to 24.0	--	+/-8.5/-5.0	Omnipolar	.95	.86	.79
785-SS361RT	SS361RT	C	3.8 to 30.0	0.4	12.0/-12.0	Bipolar Latch	1.26	1.15	.90
785-SS30AT	SS30AT	C	4.5 to 24.0	0.4	17.0/-17.0	Bipolar	1.69	1.04	.94
<b>PC Board</b>									
785-SS495A2	SS495A2	D	4.5 to 10.5	0.4	-60.0 to 60.0	Ratiometric	2.32	1.96	1.85
785-2SS52M	2SS52M	D	3.8 to 30.0	0.4	2.5/0.5	Omnipolar	2.56	2.12	1.98
785-SS41	SS41	D	4.5 to 24.0	0.4	15.0/-14.0	Bipolar	.88	.76	.67
785-SS411A	SS411A	D	3.8 to 30.0	0.4	6.0/-6.0	Bipolar	1.95	1.79	1.50
785-SS411P	SS411P	D	2.7 to 7.0	--	14.0/3.0	Bipolar Latch	.58	.54	.49
785-SS441A	SS441A	D	3.8 to 30.0	0.4	11.5/2.0	Unipolar	.96	.94	.84
785-SS441R	SS441R	D	3.0 to 24.0	--	13.5/12.0	Unipolar	.77	.71	.65
785-SS443A	SS443A	D	3.8 to 30.0	0.4	18.0/7.5	Unipolar	2.00	1.92	1.56
785-SS443R	SS443R	D	3.0 to 24.0	--	39.0/23.5	Unipolar	.75	.69	.63
785-SS445P	SS445P	D	2.7 to 7.0	0.4	18.0/10.5	Unipolar	1.23	1.13	.88
785-SS449A	SS449A	D	3.8 to 30.0	0.4	39.0/23.5	Unipolar	.97	.95	.85
785-SS449R	SS449R	D	3.0 to 24.0	--	41.0/31.0	Unipolar	.75	.69	.63
785-SS46	SS46	D	4.5 to 24.0	0.4	15.0/-15.0	Bipolar Latch	.96	.94	.84
785-SS451A	SS451A	D	3.0 to 24.0	--	+/-8.5/-5.0	Omnipolar	.91	.83	.76
785-SS461A	SS461A	D	3.8 to 30.0	0.4	8.5/-8.5	Bipolar Latch	.96	.94	.84
785-SS461R	SS461R	D	3.8 to 18.0	0.4	12.0/-12.0	Bipolar Latch	1.21	1.11	.84
785-SS466A	SS466A	D	3.8 to 30.0	0.4	18.0/-18.0	Bipolar Latch	.85	.79	.75
785-SS49	SS49	D	4.0 to 10.0	--	-40.0 to 40.0	Ratiometric	1.48	1.39	1.35
785-SS494B	SS494B	D	4.5 to 10.5	.2 to .4	-37.5 to 37.5	Ratiometric	3.44	3.13	2.89
*785-SS495A	SS495A	D	4.5 to 10.5	.2 to .4	-60.0 to 60.0	Ratiometric	1.36	1.29	1.21
785-SS495A1	SS495A1	D	4.5 to 10.5	.2 to .4	-60.0 to 60.0	Ratiometric	3.42	3.25	3.11
785-SS496A	SS496A	D	4.5 to 10.5	.2 to .4	-75.0 to 75.0	Ratiometric	2.76	2.61	2.50
*785-SS496A1	SS496A1	D	4.5 to 10.5	.2 to .4	-75.0 to 75.0	Ratiometric	1.75	1.70	1.59
785-SS49E	SS49E	D	3.0 to 6.5	.95 to 1.05	-65.0 to 65.0	Ratiometric	1.07	1.05	.89

\*High Accuracy

## PCB LEVEL POSITION SENSORS



These sensors are considered advanced magnetic sensors because they offer additional functionality over basic Hall-effect or MR devices. These magnetic sensors were originally developed for the transportation (automotive) segment; however, customers have expressed interest in utilizing these devices for other applications. With this Product Focus, Honeywell has developed numerous materials such as product sheets, installation sheets, competitive information, value propositions, etc., to help our sales team understand the significant benefits of these products in transportation, industrial, and medical applications.

The APS00B is a miniature surface mount sensor for linear, angular, or rotary displacement designed for magnetic saturating field sensing. This sensor is a cost-effective and space-efficient solution for high-volume OEM designs. The VF401 is a high performance, digital, 2-wire, MR sensor in a miniature, flat, TO-92-style plastic package with a current output, designed for sensing fine pitch ring magnets. The VF401 is a high performance, digital, 2-wire, MR sensor in a miniature, flat, TO-92-style plastic package with a current output, designed for sensing fine pitch ring magnets. The VF526DT has two Hall sensing elements encapsulated in a thermoset molding material precisely located 1.4 mm [0.055 in] apart on a single integrated circuit chip. Two active Hall latches provide speed and direction indication of an alternating magnetic field (such as a rotating ring magnet) across the face of the package.



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MOUSER STOCK NO.	Honeywell Part No.	Fig.	Supply Voltage (V)	Operating Temp. (Celsius)	Magnetic Flux	Price Each		
						1	10	50
785-APS00B	APS00B	E	5V	-40 to 150	No Limit	2.99	2.72	2.47
785-VF526DT	VF526DT	F	4.5	-40 to 125	No Limit	2.44	2.22	2.02
785-VF401	VF401	G	3.4	-40 to 150	--	4.16	3.78	3.44

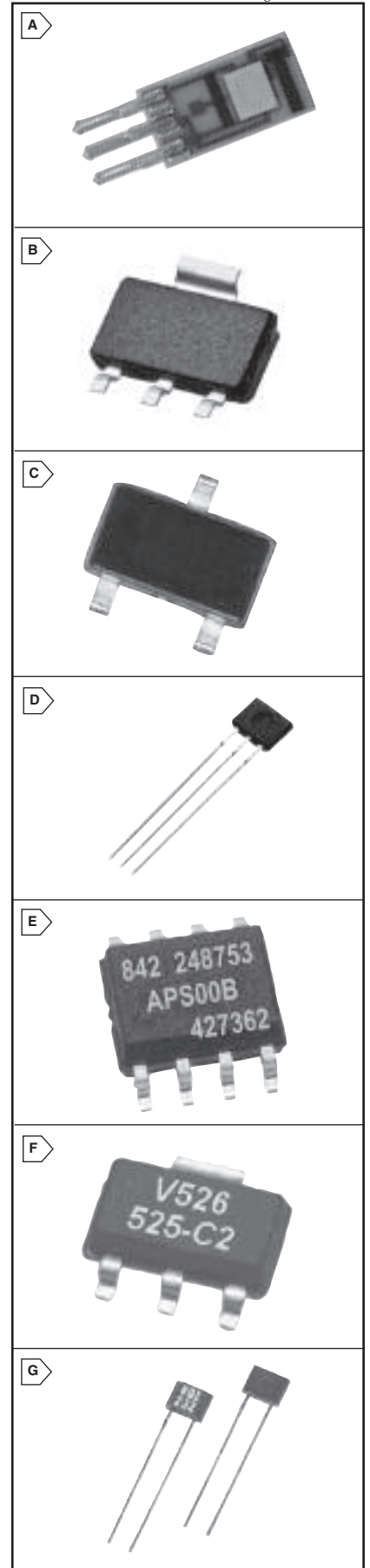
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