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



RoHS Compliant

For quantities of 100 and up, call for quote.

MOUSER	Honeywell Part No.	Fig.	Supply Voltage (V)	Supply Current (max.)	Magnetic Range (mT)	Output Current	Price Each		
STOCK NO.							1	10	50
PC Board								•	
*785-SS94A2	SS94A2	Α	6.6 to 12.6	30mA	-50 to 50	1mA			
785-SS94A1F	SS94A1F	Α	6.6 to 12.6	30mA	-10 to 10	1mA			
785-SS94A1	SS94A1	Α	6.6 to 12.6	30mA	-50 to 50	1mA			
785-91SS12-2	91SS12-2	Α	8.0 to 16.0	19mA	-40 to 40	10mA			

* 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



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MOUSER	Honeywell	_	Supply	Output	Operate/Release	Magnetic	Price Each		
STOCK NO.	Part No.	Fig.	Voltage (Vdc)	Voltage (Vdc)	Point (mT)	Actuation	1	10	50
Surface Mount									
785-SS549AT	I SS549AT	ΙВ	3.8 to 30.0	0.4	39.0/23.5	Unipolar			
785-SS543AT	SS543AT	B	3.8 to 30.0	0.4	18.0/7.5	Unipolar			
785-SS541AT	SS541AT	B	3.8 to 30.0	0.4	11.5/2.0	Unipolar			
785-SS50AT	SS50AT	B	4.5 to 24.0	0.4	17.0/-17.0	Bipolar			
785-SS511AT	SS511AT	B	3.8 to 30.0	0.4	6.0/-6.0	Bipolar			
785-SS513AT	SS513AT	B	3.8 to 30.0	0.4	14.0/-14.0	Bipolar			
785-SS59ET	SS59ET	lв	2.7 to 6.5	0.95	-65.0 to 65.0	Ratiometric			
785-SS311PT	SS311PT	ĪĊ	2.7 to 7.0		14.0/3.0	Bipolar Latch			
785-SS341RT	SS341RT	Ιč	3.0 to 24.0		13.5/12.0	Unipolar			
785-SS343RT	SS343RT	Ιč	3.0 to 24.0		19.5/18.0	Unipolar			
785-SS345PT	SS345PT	Ċ	2.7 to 7.0	0.4	18.0/10.5	Unipolar			
785-SS349RT	SS349RT	l c	3.0 to 24.0		41.0/31.0	Unipolar			
785-SS351AT	SS351AT	ľč	3.0 to 24.0		+/-8.5/-5.0	Omnipolar			
785-SS361RT	SS361RT	C	3.8 to 30.0	0.4	12.0/-12.0	Bipolar Latch			
785-SS30AT	SS30AT	l c	4.5 to 24.0	0.4	17.0/-17.0	Bipolar			
PC Board									
785-SS495A2	SS495A2	D	4.5 to 10.5	0.4	-60.0 to 60.0	Ratiometric			
785-2SS52M	2SS52M	D	3.8 to 30.0	0.4	2.5/0.5	Omnipolar			
785-SS41	SS41	D	4.5 to 24.0	0.4	15.0/-14.0	Bipolar			
785-SS411A	SS411A	D	3.8 to 30.0	0.4	6.0/-6.0	Bipolar			
785-SS411P	SS411P	D	2.7 to 7.0		14.0/3.0	Bipolar Latch			
785-SS441A	SS441A	D	3.8 to 30.0	0.4	11.5/2.0	Unipolar			
785-SS441R	SS441R	D	3.0 to 24.0		13.5/12.0	Unipolar			
785-SS443A	SS443A	D	3.8 to 30.0	0.4	18.0/7.5	Unipolar			
785-SS443R	SS443R	D	3.0 to 24.0		39.0/23.5	Unipolar			
785-SS445P	SS445P	D	2.7 to 7.0	0.4	18.0/10.5	Unipolar			
785-SS449A	SS449A	D	3.8 to 30.0	0.4	39.0/23.5	Unipolar			
785-SS449R	SS449R	D	3.0 to 24.0		41.0/31.0	Unipolar			
785-SS46	SS46	D	4.5 to 24.0	0.4	15.0/-15.0	Bipolar Latch			
785-SS451A	SS451A	D	3.0 to 24.0		+/-8.5/-5.0	Omnipolar			
785-SS461A	SS461A	D	3.8 to 30.0	0.4	8.5/-8.5	Bipolar Latch			
785-SS461R	SS461R	D	3.8 to 18.0	0.4	12.0/-12.0	Bipolar Latch			
785-SS466A	SS466A	D	3.8 to 30.0	0.4	18.0/-18.0	Bipolar Latch			
785-SS49	SS49	D	4.0 to 10.0		-40.0 to 40.0	Ratiometric			
785-SS494B	SS494B	D	4.5 to 10.5	.2 to .4	-37.5 to 37.5	Ratiometric			
*785-SS495A	SS495A	D	4.5 to 10.5	.2 to .4	-60.0 to 60.0	Ratiometric			
785-SS495A1	SS495A1	D	4.5 to 10.5	.2 to .4	-60.0 to 60.0	Ratiometric			
785-SS496A	SS496A	D	4.5 to 10.5	.2 to .4	-75.0 to 75.0	Ratiometric			
*785-SS496A1	SS496A1	D	4.5 to 10.5	.2 to .4	-75.0 to 75.0	Ratiometric			
785-SS49E	SS49E	D	3.0 to 6.5	.95 to 1.05	-65.0 to 65.0	Ratiometric			
High Accuracy									

*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 insportation, 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.

RoHS Compliant

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MOUSER	Honeywell	Fig.	Supply	Operating Temp.	Magnetic Flux	Price Each			
STOCK NO. Part No.		Voltage (Voltage (V)	(Celsius)	Wagnetic Flux	1	10	50	
785-APS00B	APS00B	E	5V	-40 to 150	No Limit				
785-VF526DT	VF526DT	F	4.5	-40 to 125	No Limit				
785-VF401	VF401	G	3.4	-40 to 150					



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