

## Magnetic Sensor IC Product Line Card

PACKAGE → (ACTUAL SIZE)	SOT-23 (SS3, SL3, SM3, VF3)	SOT-89B (SS5)	8-PIN SOIC	FLAT TO-92-STYLE (SS4, SM4, VF4)	U-PACK (2SS)	4-PIN SIP
<b>TYPE ↓</b>						
<b>mm</b>	2,9 x 2,8 x 1,45	4,49 x 4,16 x 1,37	4,9 x 5,6 x 1,37	4,06 x 3,0 x 1,57	4,52 x 4,52 x 1,57	5,08 x 3,55 x 1,55
<b>[inches]</b>	[0.114 x 0.110 x 0.057]	[0.177 x 0.164 x 0.054]	[0.193 x 0.236 x 0.054]	[0.16 x 0.118 x 0.06]	[0.178 x 0.178 x 0.062]	[0.200 x 0.14 x 0.061]
<b>BIPOLAR</b>	SS30AT, SS311PT	SS50AT, SS511AT, SS513AT, SS51T		SS40A, SS40F, SS40G, SS41, SS41F, SS41G, SS411A, SS411P, SS413A		
<b>LATCHING</b>	VF360NT, VF360ST, SS360NT, SS360PT, SS360ST, SS361CT, SS361RT	SS566AT		SS460P, VF460S, SS461A, SS461C, SS461R, SS466A		
<b>UNIPOLAR</b>	SS341RT, SS343RT, SS349RT, SS345PT	SS541AT, SS543AT, SS549AT		SS441A, SS441R, SS443A, SS443R, SS445P, SS449A, SS449R		
<b>OMNIPOLAR</b>	SS351AT, SL353HT, SL353LT	SS551AT		SS451A		
<b>MAGNETORESISTIVE (OMNIPOLAR)</b>	SM351LT, SM353LT SM351RT, SM353RT	SS552MT		SM451R, SM453R	2SS52M	
<b>LINEAR</b>	SS39ET	SS59ET		SS49E, SS491B, SS494B, SS495A, SS495A1, SS495A2, SS495B, SS496A, SS496A1, SS496B		
<b>ADVANCED</b>		VF526DT	APSO0B	VF401		SS42R

## Magnetic Sensor IC Application Chart

INDUSTRY	POTENTIAL APPLICATIONS	PRODUCTS
INDUSTRIAL	Current sensing	SS490 Series
	Angular or linear displacement	SS441R, SS541RT, SS460S, SS461R, SS360NT/ST, SS361RT, APS00B
	Motion control, proximity sensing, robotics	SS451A, SS351AT, 2SS52M, SS552MT
	Test switch for industrial smoke detectors	SM351LT, SM353LT
	Instrumentation, metering, flow meters	SS451A, SS351AT, SS360NT/ST, SS361CT, VF401, SS490 Series
	Motor or fan control, brushless motor commutation	SS460S, SS461R, SS360NT/ST, SS361RT, SS40G, SS40F, SS30AT, SS42R
	Counting/flow detection for gas and water meters	SM351LT, SM353LT, SM351RT, SM353RT, SM451R, SM453R
HVAC	Battery-operated, mobile equipment such as door/lid closure detection in notebooks, scanners, hand-held industrial computers or instrumentation, mobile printer head position, trigger switch for hand tools, reed switch replacement in security systems, magnetic encoder for building access (array)	SL353HT, SL353LT, SM351LT, SM353LT
	Tampering detection for gas, water and electricity meters	SM351LT, SM353LT, SM351RT, SM353RT, SM451R, SM453R
	Motor or fan control	SS460S, SS461R, SS360NT/ST, SS361RT, SS30AT, SS40A, SS40F, SS40G, SS42R
MEDICAL	Valve position	APS00B, SS490 Series
	Gas/water consumption measurement in remote, battery-operated utility meters	SL353HT, SL353LT, SM351LT, SM353LT
TRANSPORTATION	Drug carts, hospital beds, medical equipment	SS341RT, SS351AT, APS00B, SS490 Series, SM351LT, SM353LT, SM351RT, SM353RT, SM451R, SM453R
	Hand-held medical/dental equipment, battery-operated infusion/insulin pumps, wearable devices, exercise equipment, hospital beds	SL353HT, SL353LT, SM351LT, SM353LT, SM351RT, SM353RT, SM451R, SM453R
COMMERCIAL/CONSUMER	Electronic power steering, stability control, wheel speed	SS411A, SS511AT, SS413A, SS460S, SS461R, SS360NT/ST, SS361RT, VF401, VF360NT/ST, VF460S
	Power windows, power seats, remote mirrors	VF526DT, SS490 Series, VF360NT/ST, VF460S
	Comfort and convenience motor control	SS30AT, SS466A, SS566AT, SS460S, SS461R, SS360NT/ST, SS361RT, VF360NT/ST, VF460S
	Speed sensing, tachometer	SS413A, SS460S, SS461R, SS360NT/ST, SS361RT, SS411A, SS511AT, VF401, VF360NT/ST, VF460S
	E-bike throttle, off-road vehicle power management	SS39ET, SS49E, SS59ET, SS490 Series
COMMERCIAL/CONSUMER	E-bike motor control	SS40A, SS40F, SS30AT, SS360NT/ST, SS361RT
	Flow meters, appliance/white goods motor control, fans	SS40F, SS40G, SS30AT, SS360NT/ST, SS361CT, SM351RT, SM353RT, SM451R, SM453R
	Door/lid detection in appliances, white goods	SS441R, SS341RT, SS451A, SS351AT
	Speed sensing in fitness equipment	SS30AT, SS351AT, SS441R, SS360NT/ST, SS361RT
	Power switch or open-close detection in small battery-operated appliances (vacuum cleaner, fan, etc.)	SL353HT, SL353LT, SM351LT, SM353LT

## Magnetic Sensor IC Cataloging System

PREFIX	PACKAGE STYLE	MAGNETIC TYPE	RELATIVE OPERATION OR GAUSS LEVEL	ELECTRICAL/MAGNETIC OPTION	SPECIAL FEATURE	SUFFIX	PACKAGE OPTION (Dimensions given are for lead lengths only.)
<b>SS</b> = Commercial Solid State <b>SL</b> = Commercial Solid State <b>SM</b> = Commercial Solid State <b>VF</b> = Vehicle Solid State	<b>3</b> = SOT-23 <b>4</b> = Flat TO-92-style <b>5</b> = SOT-89B <b>6</b> = 8-Pin SOIC	<b>0</b> or <b>1</b> = Bipolar <b>4</b> = Unipolar <b>5</b> = Omnipolar <b>6</b> = Latching <b>9</b> = Linear	<b>0-3</b> = Low <b>4-6</b> = Medium <b>7-9</b> = High blank = special (enhanced IC, etc.)	<b>A</b> = High performance standard open collector output (digital) or sink-source (linear) <b>B</b> = Standard performance, linear output <b>E</b> = Enhanced performance IC <b>F</b> = 25 °C test only, packaged in China <b>G</b> = 125 °C test, packaged in China <b>H</b> = Low power, high duty <b>L</b> = Low power, low duty <b>M</b> = Magnetoresistive IC <b>P</b> = Built-in pull-up resistor <b>R</b> = Reduced IC size	<b>Blank</b> = Standard <b>1 - 9</b> = Specials	<b>-</b> = Suffix separator (2SS, SS4) <b>N</b> = Activated (output LOW) with North pole <b>S</b> = Activated (output LOW) with South pole	<b>SS4, SM4, VF4, 2SS:</b> <b>Blank</b> = 14,5 mm [0.57 in] straight standard leads, bulk pack <b>F</b> = 14,5 mm [0.57 in] formed leads, bulk pack <b>L</b> = 18,67 mm [0.735 in] straight long leads, bulk pack <b>R</b> = 3,30 [0.130 in] straight reduced leads, bulk pack <b>S</b> = 3,18 [0.125 in] surface mount, bulk pack <b>SP</b> = 3,18 [0.125 in] surface mount, pocket tape and reel <b>T2</b> = 14,5 mm [0.57 in] formed leads, ammpack tape-in-box <b>T3</b> = 14,5 mm [0.57 in] straight standard leads, ammpack tape-in-box  Formed leads: 2,54 mm [0.100 in] spacing Straight leads: 12,7 mm [0.050 in] spacing  <b>SS3, SL3, SM3, VF3, SS5:</b> <b>T</b> = pocket tape and reel
<b>EXAMPLE LISTING</b>	<b>PRODUCT DESCRIPTION BASED ON THE CATALOGING SYSTEM ABOVE</b>						
SS461A-T2	Commercial solid state, flat TO-92-style, latching, low Gauss levels, high performance standard open collector output, 14,5 mm [0.57 in] formed leads, 2,54 mm [0.100 in] spacing, ammpack tape-in-box						

Note: Not all lead or packaging combinations are possible. Contact Honeywell Customer Service at 1-800-537-6945 for assistance.

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