







# Magnetic Sensor IC Product Line Card



Package → (actual size)	SOT-23 (SS3, SL3, SM3)	SOT-89B (SS5)	8-Pin SOIC	Flat TO-92-Style (SS4)	U-Pack (2SS)	4-Pin SIP
						
Type ↓						
mm	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
[inches]	[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]
Bipolar	SS30AT, SS311PT	SS50AT, SS511AT, SS513AT, SS51T		SS40A, SS40F, SS40G, SS41, SS41F, SS41G, SS411A, SS411P, SS413A		
Latching	<b>SS360NT, SS360PT,</b> <b>SS360ST,</b> SS361CT, SS361RT	SS566AT		SS46, <b>SS460P,</b> <b>S460S,</b> SS461A, SS461C, SS461R, SS466A		
Unipolar	SS341RT, SS343RT, SS349RT, SS345PT	SS541AT, SS543AT, SS549AT		SS441A, SS441R, SS443A, SS443R, SS445P, SS449A, SS449R		
Omnipolar	SS351AT, <b>SL353HT,</b> <b>SL353LT</b>	SS551AT		SS451A		
Magnetoresistive (Omnipolar)	<b>SM351LT, SM353LT</b>	SS552MT			2SS52M	
Linear	<b>SS39ET</b>	SS59ET		SS49E, SS49F, SS49G, SS491B, SS494B, SS495A, SS495A1, SS495A2, SS495B, SS496A, SS496A1, SS496B		
Advanced		VF526DT	APS00B	VF401		SS42R

New products shown in **bold**.

## Magnetic Sensor IC Application Chart

Industry	Potential Applications	Products
Industrial	Current sensing	SS94 Series, 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
	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
	Motor or fan control	SS460S, SS461R, SS360NT/ST, SS361RT, SS30AT, SS40A, SS40F, SS40G, SS42R
HVAC	Valve position	APS00B, SS490 Series
	Gas/water consumption measurement in remote, battery-operated utility meters	SL353HT, SL353LT, SM351LT, SM353LT
Medical	Drug carts, hospital beds, medical equipment	SS341RT, SS351AT, APS00B, SS490 Series, SM351LT, SM353LT
	Hand-held medical/dental equipment, battery-operated infusion/insulin pumps, wearable devices, exercise equipment, hospital beds	SL353HT, SL353LT, SM351LT, SM353LT
Transportation	Electronic power steering, stability control, wheel speed	SS411A, SS511AT, SS413A, SS460S, SS461R, SS360NT/ST, SS361RT, VF401
	Power windows, power seats, remote mirrors	VF526DT, SS490 Series
	Comfort and convenience motor control	SS30AT, SS466A, SS566AT, SS460S, SS461R, SS360NT/ST, SS361RT
	Speed sensing, tachometer	SS413A, SS460S, SS461R, SS360NT/ST, SS361RT, SS411A, SS511AT, VF401
	E-bike throttle, off-road vehicle power management	SS39ET, SS49E, SS49F, SS49G, SS59ET, SS490 Series
	E-bikes motor control	SS40A, SS40F, SS30AT, SS360NT/ST, SS361RT
Commercial/Consumer	Flow meters, appliance/white goods motor control, fans	SS40F, SS40G, SS30AT, SS360NT/ST, SS361CT
	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)
SS = Commercial Solid State	3 = SOT-23 4 = Flat TO-92-style	0 or 1 = Bipolar 4 = Unipolar	0-3 = Low 4-6 = Medium	A = High performance standard open collector output (digital) or sink-source (linear)	Blank = Standard 1 - 9 = Specials	- = Suffix separator (2SS and SS4) N = Activated (output LOW) with North Pole S = Activated (output LOW) with South Pole	<b>2SS, SS4:</b> Blank = 14,99 mm [0.590 in] straight standard leads, bulk pack F = 14,99 mm [0.590 in] formed leads, bulk pack L = 18,67 mm [0.735 in] straight long leads, bulk pack R = 3,30 [0.130 in] straight reduced leads, bulk pack S = 3,30 [0.130 in] surface mount, bulk pack SP = 3,30 [0.130 in] surface mount, pocket tape and reel T2 = 14,99 mm [0.590 in] formed leads, Ammo Pack tape in box T3 = 14,99 mm [0.590 in] straight standard leads, Ammo Pack tape in box <b>SS3, SS5, SM3, SL3:</b> T = pocket tape & reel
SL = Commercial Solid State	5 = SOT-89B	5 = Omnipolar 6 = Latching	7-9 = High blank = special (enhanced IC, etc.)	B = Shinetsu overmold E = Enhanced performance IC F = 25 °C test only, packaged in China G = 125 °C test, packaged in China			Formed leads: 2,54 mm [0.100 in] spacing Straight leads: 12,7 mm [0.050 in] spacing
SM = Commercial Solid State	6 = SO-8	9 = Linear		H = Low power, high duty L = Low power, low duty M = Magnetoresistive IC P = Built-in pull-up resistor R = Reduced IC size			
VF = Vehicle Solid State							

Example Listing	Product Description Based on the Cataloging System Above
SS461A-T2	Commercial solid state, flat TO-92-style, latching, low Gauss levels, high performance standard open collector output, 14,99 mm [0.590 in] formed leads, 2,54 mm [0.100 in] spacing, Ammo Pack 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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