
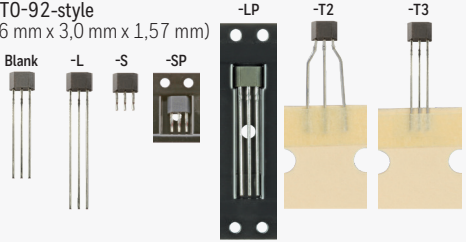
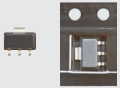
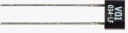
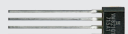
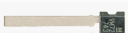

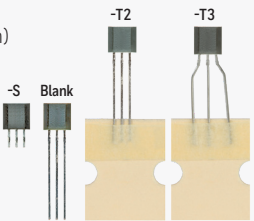




## Magnetic Sensor IC Product Line Card

Package Style <sup>1,2</sup>	Digital									Linear and Angle	
	Speed and Direction		Magnetic Actuation Type							Linear (Ratio-metric)	Angle
	Ring Magnet Target	Hall-Effect, Back Bias	Latching		Bipolar	Unipolar	Omnipolar				
High Sensitivity			Standard Sensitivity	High Sensitivity			Low Power	Standard Sensitivity			
SOT-23 (2,90 mm x 2,80 mm x 1,40 mm) 	–	–	SS360ST SS360NT SS360PT VF360NT VF360ST	SS361RT SS361CT	SS30AT SS311PT	SS341RT SS343RT SS349RT SS345PT	SM351RT SM353RT	SM351LT SM353LT SL353HT SL353LT	SS351AT	SS39ET	–
Flat T0-92-style (4,06 mm x 3,0 mm x 1,57 mm) 	VF651B VF652B	VG481V1	SS460S SS460P VF460S	SS461R SS461C SS461A SS466A	SS40A SS41 SS411P SS411A SS413A SS41K6	SS441R SS443R SS449R SS445P SS441A SS443A	SM451R SM453R	–	SS451A	SS49E SS494B SS495A SS495A1 SS495A2 SS495B SS496A SS496A1 SS496B	–
SOT-89B (4,5 mm x 4,2 mm x 1,3 mm) 	VF526DT SS526GT	–	–	SS561AT SS566AT	SS50AT SS51T SS511AT SS513AT	SS541AT SS543AT SS549AT	SS552MT	–	SS551AT	SS59ET	–
2-Pin SIP (4,06 mm x 3,00 mm x 1,57 mm) 	VF401	–	–	–	–	–	–	–	–	–	–
4-Pin SIP (5,13 mm x 3,60 mm x 1,60 mm) 	VM821Q1	–	–	–	–	–	–	–	–	–	–
2-Pin SIP, Wide (5,13 mm x 3,60 mm x 1,60 mm) 	VM721V1 VM721D1	–	–	–	–	–	–	–	–	–	–
8-Pin SOIC (6,0 mm x 4,9 mm x 1,4 mm) 	–	–	–	–	–	–	–	–	–	–	APSO0B
U-Pack (4,52 mm x 4,52 mm x 1,57 mm) 	–	–	–	–	–	–	2SS52M	–	–	–	–

<sup>1</sup>Measurements given do not include lead dimensions.

<sup>2</sup>Not all lead or packaging combinations are possible. Contact Honeywell Customer Service at 1-800-537-6945 for assistance.

### NEED CUSTOMIZED PACKAGING?

Contact Honeywell Customer Service at 1-800-537-6945 for assistance.

## MAGNETIC SENSOR IC GENERAL NOMENCLATURE\*

Prefix	Package Style	Magnetic Type	Relative Operation or Gauss Level	Electrical/Magnetic Option	Special Feature	Packaging Option (for SS4XX, SM4XX, VF4XX)
<b>SS</b> = Solid state commercial <b>SL</b> = Solid state low power <b>SM</b> = Solid state AMR (anisotropic magnetoresistive) <b>VF</b> = Hall effect vehicle <b>VG</b> = Solid state vehicle gear tooth <b>VM</b> = AMR (anisotropic magnetoresistive) vehicle	<b>3</b> = SOT-23 <b>4</b> = Flat TO-92-style <b>5</b> = SOT-89B <b>6</b> = SOIC-8 <b>7</b> = 2-pin SIP	<b>0 or 1</b> = Bipolar <b>2</b> = Ring magnet sensing <b>4</b> = Unipolar <b>5</b> = Omnipolar <b>6</b> = Latching <b>8</b> = Single Hall effect, back bias <b>9</b> = Linear	<b>Blank</b> = Legacy product <b>0-3</b> = Low <b>4-6</b> = Medium <b>7-9</b> = High	<b>A</b> = High performance <b>B</b> = Standard performance, linear output <b>D</b> = Speed and direction <b>E</b> = Enhanced performance <b>G</b> = 125°C test <b>H</b> = Low power, high duty <b>K</b> = High Vsupply and ESD protection <b>L</b> = Low power, low duty <b>M</b> = Magnetoresistive <b>N</b> = North pole <b>P</b> = Built-in pull-up resistor <b>Q</b> = Quadrature <b>R</b> = Reduced size <b>S</b> = South pole <b>V</b> = Speed	<b>Blank</b> = Standard <b>1-9</b> = Specials <b>6</b> = 60 V overvoltage	<b>Blank</b> = Straight standard leads, bulk pack, 1,000 units/bag <b>-L</b> = Straight long leads, bulk pack, 1,000 units/bag <b>-LP</b> = Straight long leads, pocket tape and reel <b>-S</b> = Surface mount, bulk pack <b>-SP</b> = Surface mount, pocket tape and reel <b>-T2</b> = Formed leads, ammpack tape-in-box, 5,000 units/box <b>-T3</b> = Standard leads, ammpack tape-in-box, 5,000 units/box <b>T</b> = Pocket tape and reel  <b>Formed leads:</b> 2,54 mm [0.100 in] spacing <b>Straight leads:</b> 1,27 mm [0.050 in] spacing

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

## MAGNETIC SENSOR IC APPLICATION CHART

Industry	Potential Applications	Product Family	Preferred Listings
Industrial	Current sensing	Linear	SS490 Series
	Angular or linear displacement	Angular, Linear	APS00B, SS39ET, SS49E, SS490 Series
	Motion control, proximity sensing, robotics	Unipolar, Omnipolar, Speed and Direction	SM351RT, SM353RT, SM451R, SM453R, SS451A, SS351AT, SS441R, SS461R, SS361RT, VM821Q1
	Instrumentation, metering, flow meters	Unipolar, Omnipolar	SM351RT, SM353RT, SM451R, SM453R, SS451A, SS351AT, SS341RT, SS441R
	Motor or fan control, brushless motor commutation	Latching, Bipolar	SS360ST, SS360NT, SS41K6, SS461R, SS361RT, SS460S, SS41
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)	Low Power	SL353HT, SL353LT, SM351LT, SM353LT
	Motor or fan control	Latching, Bipolar	SS360ST, SS360NT, SS460S, SS41K6, SS461R, SS361RT, SS41
	Valve position	Angular, Linear	APS00B, SS490 Series
Medical	Gas/water consumption measurement in remote, battery-operated utility meters	Low Power	SL353HT, SL353LT, SM351LT, SM353LT
	Drug carts, hospital beds, medical equipment	Unipolar, Omnipolar, Linear	SS341RT, SS351AT, APS00B, SS490 Series
Transportation	Hand-held medical/dental equipment, battery-operated infusion/insulin pumps, wearable devices	Low Power	SL353HT, SL353LT, SM351LT, SM353LT
	Electronic power steering, stability control, wheel speed	Speed and Direction	VM721V1, VM721D1, VG481V1
	Power windows, power seats, remote mirrors	Speed and Direction, Linear	VM821Q1, VF495A1-SP, SS39ET, SS49E, SS490 Series
	Comfort and convenience motor control	Latching, Bipolar	VF360ST, VF360NT, VF460S, SS41K6
	Speed sensing, tachometer	Speed and Direction	VM721V1, VG481V1, VF526DT
Consumer/Commercial	E-bike motor control	Latching, Bipolar	SS41K6, VF360ST, VF360NT, VF460S
	Flow meters, appliance/white goods motor controls, fans	Latching, Bipolar	SS360ST, SS360NT, SS460S, SS41K6, SS461R, SS361RT, SS41
	Door/lid detection in appliances, white goods	Unipolar, Omnipolar	SM351RT, SM353RT, SM451R, SM453R, SS441R, SS341RT, SS451A, SS351AT
	Speed sensing in fitness equipment	Speed	VG481V1, VM721V1, SS341RT, SS441R
	Power switch or open-close detection in small battery-operated appliances (vacuum cleaner, fan, etc.)	Low Power	SM351LT, SM353LT, SL353HT, SL353LT