
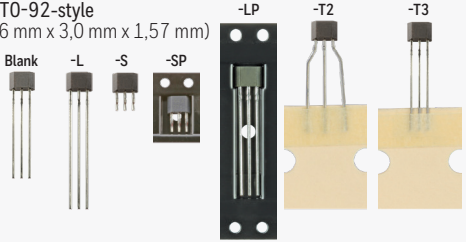
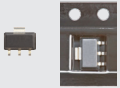
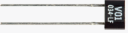
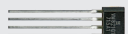
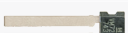

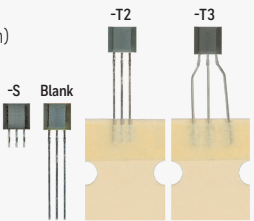




Magnetic Sensor IC Product Line Card

| Package Style ^{1,2} | 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 | – | – | – | – |

¹Measurements given do not include lead dimensions.

²Not 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) |
|--|---|--|---|---|---|--|
| SS = Solid state commercial SL = Solid state low power SM = Solid state AMR (anisotropic magnetoresistive) VF = Hall effect vehicle VG = Solid state vehicle gear tooth VM = AMR (anisotropic magnetoresistive) vehicle | 3 = SOT-23 4 = Flat TO-92-style 5 = SOT-89B 6 = SOIC-8 7 = 2-pin SIP | 0 or 1 = Bipolar 2 = Ring magnet sensing 4 = Unipolar 5 = Omnipolar 6 = Latching 8 = Single Hall effect, back bias 9 = Linear | Blank = Legacy product 0-3 = Low 4-6 = Medium 7-9 = High | A = High performance B = Standard performance, linear output D = Speed and direction E = Enhanced performance G = 125°C test H = Low power, high duty K = High Vsupply and ESD protection L = Low power, low duty M = Magnetoresistive N = North pole P = Built-in pull-up resistor Q = Quadrature R = Reduced size S = South pole V = Speed | Blank = Standard 1-9 = Specials 6 = 60 V overvoltage | Blank = Straight standard leads, bulk pack, 1,000 units/bag -L = Straight long leads, bulk pack, 1,000 units/bag -LP = Straight long leads, pocket tape and reel -S = Surface mount, bulk pack -SP = Surface mount, pocket tape and reel -T2 = Formed leads, ammpack tape-in-box, 5,000 units/box -T3 = Standard leads, ammpack tape-in-box, 5,000 units/box T = Pocket tape and reel Formed leads: 2,54 mm [0.100 in] spacing Straight leads: 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 |

Honeywell Advanced Sensing Technologies

830 East Arapaho Road, Richardson, TX 75081 | [sps.honeywell.com/ast](https://www.sps.honeywell.com/ast)

005929-14-EN | 14 | 04/21
© 2021 Honeywell International Inc.

