Select Rotary Position Sensors. Firmly positioned as the leader.
The Honeywell Sensing and Control (S&C) Rotary Position Sensor lineup is comprised of encoders, potentiometers, and precision-crafted resolvers.

Our Encoders are available in both mechanical and optical versions, and are best for potential applications requiring panel-mounted, manually-operated rotary sensing.

Potentiometer Sensors utilize precision technology developed for potential military applications. Our proprietary conductive plastic offers extensive temperature range and infinite resolution, and is designed to provide precision position measurement.

Resolvers are offered in pancake, brushless, and canned styles. Honeywell S&C is one of a handful of companies offering this highly precise sensor technology. But that’s what you’d expect from an industry leader.

FEATURES

ENCODERS

510E Series.
Features: Mechanical encoder • Employs 2-bit gray code with up to 36 positions or a 4-bit code • Cost effective • Eliminates need for A/D converters • Stability from -40 °C to 105 °C [-40 °F to 221 °F] • Positive detent feel • Continuous electrical travel • Horizontal and vertical mounting

Benefits: Operates as a cost-effective, high-resolution incremental switching device. The “L” channel leads the “R” channel by 90° electrically in the clockwise position. Often used in limited-space panel-mounted applications where the need for costly, front-panel displays can be completely eliminated. Potential applications include welding/heating equipment, sprinkler systems, manual controls, level control, cursor control, frequency control, temperature control, time control, and position sensing.

600 Series.
Features: Optical encoder • Dual quadrature output generating 128 pulses per channel • Cost effective • Eliminates need for A/D converters • Stability from -40 °C to 65 °C [-40 °F to 149 °F] • Cable and printed circuit terminations available • Stainless steel shaft • Nickel-plated bushing • PC terminals and cable leads available • Outputs are TTL compatible

Benefits: Enhanced life, no contact device capable of approximately 10 million revolutions. Outputs two square waves in quadrature at a rate of 128 pulses per channel per revolution as a standard with other resolutions down to 60 pulses available. Potential applications include robotics, welding/heating equipment, manual controls, motion sensing and control, motor and flow control, low-to-high input for test and measurement, medical and instrumentation, and computer peripherals.

CERMET AND WIREWOUND POTENTIOMETERS

309/409 Series.
Features: Compact • Modular package • Cermet element • 1 W power rating • Enhanced performance • 409: sealed for board washing • PC and solder-hook terminals

Benefits: Reduced cost potentiometer that offers the temperature stability of a cermet element and a 1 watt power rating in a compact body. Stable over operating temperature. Potential applications include audio consoles, lighting controls, precision joysticks, telecom control systems, manual controls, medical equipment, telecommunications, and marine controls.

389 Series.
Features: Cermet element • 1 W power rating • Small size • Stackable – up to 6 modules • Rotary, push-pull, and momentary options • 1/4 in or 1/8 in diameter shafts • Single, dual-concentric,
Rotary Position Sensor Line Guide


Honeywell S&C rotary position sensors deliver the features you need and quality you demand. Even better, we offer worldwide support and manufacturing.

Encoders: Our mechanical encoders have 2-bit and 4-bit graycode outputs for absolute electrical reference applications. Manually operated optical encoders output two square waves in quadrature. Various resolutions, PC terminals, or cable leads are available.

Potentiometers: The Honeywell S&C lineup is legendary in military and aerospace industries for reliability, durability, and enhanced life. Our potentiometer designs allow customization to your specs and cost requirements without sacrificing reliability and accuracy. Measuring linear, rotary position, or displacement, these units easily withstand exposure to harsh chemicals and high temperatures.

Resolvers: These non-contact, enhanced precision rotary position sensors are available in standard styles and are fully customizable, offering remarkable specs for impressive performance.

<table>
<thead>
<tr>
<th>Encoders</th>
<th>510E Series</th>
<th>600 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>mechanical</td>
<td>optical</td>
</tr>
<tr>
<td>Pulse per revolution</td>
<td>16, 9, 6, 4</td>
<td>128</td>
</tr>
<tr>
<td>Output</td>
<td>2- or 4-bit grey code</td>
<td>quadrature square wave</td>
</tr>
<tr>
<td>Dome switch</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Expected rotational life</td>
<td>100K cycles</td>
<td>10 million revolutions</td>
</tr>
<tr>
<td>Operating speed</td>
<td>50 rpm max.</td>
<td>300 rpm max.</td>
</tr>
<tr>
<td>Terminals</td>
<td>PCB pins</td>
<td>PCB pins or cable with/without connector</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cermet and Wirewound Pots</th>
<th>309/409 Series</th>
<th>389 Series</th>
<th>43/RA20 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>309: compact modular house 409: sealed for board washing</td>
<td>multiple sections available</td>
<td>RA20 meets MIL-R-19</td>
</tr>
<tr>
<td>Expected rotational life</td>
<td>25K cycles</td>
<td>25K cycles</td>
<td>10K cycles</td>
</tr>
<tr>
<td>Element type</td>
<td>cermet</td>
<td>cermet</td>
<td>wirewound</td>
</tr>
<tr>
<td>Power rating</td>
<td>1 W</td>
<td>1 W</td>
<td>2 W</td>
</tr>
<tr>
<td>Terminal type</td>
<td>PC, solder hook</td>
<td>PC, solder hook</td>
<td>solder lug</td>
</tr>
<tr>
<td>Resistance range</td>
<td>100 Ohm to 5 mOhm</td>
<td>linear: 5 Ohm to 5 mOhm; tapered: 100 Ohm to 2 mOhm</td>
<td>43: 10 Ohm to 50 kOhm RA20: 50 Ohm to 15 kOhm</td>
</tr>
<tr>
<td>Bushing type</td>
<td>standard</td>
<td>standard</td>
<td>standard, locking</td>
</tr>
<tr>
<td>Potentiometer type</td>
<td>industrial</td>
<td>industrial</td>
<td>industrial</td>
</tr>
<tr>
<td>Electrical taper</td>
<td>linear, tapered</td>
<td>linear, tapered</td>
<td>linear</td>
</tr>
</tbody>
</table>
### Cermet and Wirewound Pots

<table>
<thead>
<tr>
<th></th>
<th>58/RA30 Series</th>
<th>591 Series</th>
<th>73 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>RA30 meets MIL-R-19</td>
<td>multiple sections available</td>
<td>10-turn construction</td>
</tr>
<tr>
<td><strong>Expected rotational life</strong></td>
<td>25K cycles</td>
<td>25K cycles</td>
<td>50K cycles</td>
</tr>
<tr>
<td><strong>Element type</strong></td>
<td>wirewound</td>
<td>cermet</td>
<td>wirewound</td>
</tr>
<tr>
<td><strong>Power rating</strong></td>
<td>4 W</td>
<td>1 W</td>
<td>2 W</td>
</tr>
<tr>
<td><strong>Terminal type</strong></td>
<td>solder lug</td>
<td>PC, solder hook</td>
<td>solder lug</td>
</tr>
<tr>
<td><strong>Resistance range</strong></td>
<td>58: 50 Ohm to 50 kOhm RA30: 25 Ohm to 25 kOhm</td>
<td>500 Ohm to 100 kOhm</td>
<td>100 Ohm to 100 kOhm</td>
</tr>
<tr>
<td><strong>Bushing type</strong></td>
<td>standard, locking</td>
<td>standard</td>
<td>standard</td>
</tr>
<tr>
<td><strong>Potentiometer type</strong></td>
<td>industrial</td>
<td>commercial</td>
<td>precision</td>
</tr>
<tr>
<td><strong>Electrical taper</strong></td>
<td>linear</td>
<td>linear</td>
<td>linear</td>
</tr>
</tbody>
</table>

### Conductive Plastic Pots

<table>
<thead>
<tr>
<th></th>
<th>308/408 Series</th>
<th>380/53/RV4 Series</th>
<th>381 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>308: compact modular house 408: sealed for board washing</td>
<td>RV4 meets MIL-PRF-94</td>
<td>metal case and nickel-plated shaft</td>
</tr>
<tr>
<td><strong>Expected rotational life</strong></td>
<td>50K cycles</td>
<td>100K cycles, 25K cycles</td>
<td>25K cycles</td>
</tr>
<tr>
<td><strong>Element type</strong></td>
<td>conductive plastic</td>
<td>conductive plastic</td>
<td>conductive plastic</td>
</tr>
<tr>
<td><strong>Power rating</strong></td>
<td>0.5 W</td>
<td>2 W</td>
<td>1 W</td>
</tr>
<tr>
<td><strong>Terminal type</strong></td>
<td>PC, solder hook</td>
<td>solder lug</td>
<td>solder lug</td>
</tr>
<tr>
<td><strong>Resistance range</strong></td>
<td>308: 100 Ohm to 1 mOhm 408: 500 Ohm to 10 kOhm</td>
<td>100 Ohm to 1 mOhm 500 Ohm to 10 kOhm</td>
<td>100 Ohm to 5 mOhm</td>
</tr>
<tr>
<td><strong>Bushing type</strong></td>
<td>standard, locking</td>
<td>standard, locking</td>
<td>standard, locking</td>
</tr>
<tr>
<td><strong>Potentiometer type</strong></td>
<td>industrial</td>
<td>industrial</td>
<td>industrial</td>
</tr>
<tr>
<td><strong>Electrical taper</strong></td>
<td>CW audio, linear</td>
<td>linear, tapered</td>
<td>CW audio, linear</td>
</tr>
</tbody>
</table>
# Rotary Position Sensor Line Guide

## Conductive Plastic Pots

### 388 Series
- **Type**: multiple sections available
- **Expected rotational life**: 50K cycles
- **Element type**: conductive plastic
- **Power rating**: 0.5 W
- **Terminal type**: PC, solder hook
- **Resistance range**: linear: 100 Ohm to 5 mOhm; tapered: 500 Ohm to 2 mOhm
- **Bushing type**: standard
- **Potentiometer type**: industrial
- **Electrical taper**: linear, tapered

### 392/RV6 Series
- **Type**: RV6 meets MIL-PRF-94
- **Expected rotational life**: 50K cycles
- **Element type**: conductive plastic
- **Power rating**: 0.5 W
- **Terminal type**: PC, solder hook
- **Resistance range**: 100 Ohm to 5 mOhm
- **Bushing type**: standard
- **Potentiometer type**: industrial
- **Electrical taper**: linear, tapered

### 574 Series
- **Type**: low mounting profile
- **Expected rotational life**: 50K cycles
- **Element type**: conductive plastic
- **Power rating**: 0.5 W
- **Terminal type**: PC with bracket
- **Resistance range**: 1 kOhm to 100 kOhm
- **Bushing type**: standard
- **Potentiometer type**: commercial
- **Electrical taper**: linear

## Conductive Plastic Pots

### 575 Series
- **Type**: thermoplastic panel mount
- **Expected rotational life**: 50K cycles
- **Element type**: conductive plastic
- **Power rating**: 0.5 W
- **Terminal type**: PC, solder hook
- **Resistance range**: 1 kOhm to 50 kOhm
- **Bushing type**: standard
- **Potentiometer type**: commercial
- **Electrical taper**: linear, tapered

### 578 Series
- **Type**: carbon elements/metal shaft
- **Expected rotational life**: 2.5M cycles
- **Element type**: conductive plastic
- **Power rating**: 0.5 W
- **Terminal type**: PC
- **Resistance range**: 1 kOhm to 10 kOhm
- **Bushing type**: standard
- **Potentiometer type**: precision
- **Electrical taper**: linear

### 585 Series
- **Type**: multiple sections available
- **Expected rotational life**: 10K cycles
- **Element type**: carbon
- **Power rating**: 0.05 W
- **Terminal type**: PC
- **Resistance range**: 1 kOhm to 10 kOhm
- **Bushing type**: standard
- **Potentiometer type**: commercial
- **Electrical taper**: linear

### 590 Series
- **Type**: conductive plastic
- **Expected rotational life**: 50K cycles
- **Element type**: conductive plastic
- **Power rating**: 0.5 W
- **Terminal type**: PC, solder hook
- **Resistance range**: 100 Ohm to 1 mOhm
- **Bushing type**: standard
- **Potentiometer type**: commercial
- **Electrical taper**: linear, CW audio, linear
### Conductive Plastic Pots

<table>
<thead>
<tr>
<th>MKV Series</th>
<th>SensorCube Series</th>
<th>TH100 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>sealed construction</td>
<td>special electrical and mechanical configurations</td>
</tr>
<tr>
<td><strong>Expected rotational life</strong></td>
<td>10 million cycles</td>
<td>10 million cycles</td>
</tr>
<tr>
<td><strong>Element type</strong></td>
<td>conductive plastic</td>
<td>conductive plastic</td>
</tr>
<tr>
<td><strong>Power rating</strong></td>
<td>1 W</td>
<td>1 W</td>
</tr>
<tr>
<td><strong>Terminal type</strong></td>
<td>turret</td>
<td>turret</td>
</tr>
<tr>
<td><strong>Resistance range</strong></td>
<td>500 Ohm to 20 kΩm</td>
<td>1 kΩm to 10 kΩm</td>
</tr>
<tr>
<td><strong>Bushing type</strong></td>
<td>no bushing, standard</td>
<td>standard</td>
</tr>
<tr>
<td><strong>Potentiometer type</strong></td>
<td>precision</td>
<td>precision</td>
</tr>
<tr>
<td><strong>Electrical taper</strong></td>
<td>linear</td>
<td>linear</td>
</tr>
</tbody>
</table>

### Non-contact, Hall-effect

<table>
<thead>
<tr>
<th>HRS100 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Supply voltage</strong></td>
</tr>
<tr>
<td><strong>Output type</strong></td>
</tr>
<tr>
<td><strong>Expected rotational life</strong></td>
</tr>
<tr>
<td><strong>Package style</strong></td>
</tr>
<tr>
<td><strong>Temperature range</strong></td>
</tr>
<tr>
<td><strong>Supply current</strong></td>
</tr>
<tr>
<td><strong>Electrical taper</strong></td>
</tr>
</tbody>
</table>
## Rotary Position Sensor Line Guide

### Resolvers

<table>
<thead>
<tr>
<th>Type</th>
<th>Honeywell Hawk™ 1-Inch Series</th>
<th>Cased - Brushless Dual Speed Series</th>
<th>Cased - Brushless Single Speed Series</th>
<th>Pancake - Brushless Multi-Speed Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size diameter</td>
<td>1.06 in (1/10 in) 30</td>
<td>(1/10 in) 17</td>
<td>(1/10 in) 38 to 63</td>
<td></td>
</tr>
<tr>
<td>Speed</td>
<td>1X</td>
<td>1&amp;32</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>±7 arcmin</td>
<td>1&amp;32</td>
<td>1.25 arcmin to 3.50 arcmin</td>
<td></td>
</tr>
<tr>
<td>Features</td>
<td>transformer (360°+ mechanical) redundant</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>

### Resolvers

<table>
<thead>
<tr>
<th>Type</th>
<th>Pancake - Brushless Dual-Speed Series</th>
<th>Pancake - Dual Speed Series</th>
<th>Pancake - Multi-Speed Series</th>
<th>Pancake - Single Speed Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size diameter</td>
<td>(1/10 in) 92</td>
<td>(1/10 in) 31 to 130</td>
<td>(1/10 in) 16 to 67</td>
<td>(1/10 in) 24 to 68</td>
</tr>
<tr>
<td>Speed</td>
<td>1&amp;64</td>
<td>1&amp;8, 1&amp;16, 1&amp;32, 1&amp;36, 2&amp;36, 1&amp;64, 1&amp;128</td>
<td>4, 8, 16, 32, 64</td>
<td>–</td>
</tr>
<tr>
<td>Accuracy</td>
<td>(multi-speed) 30 arcsec</td>
<td>(multi-speed) 36 arcsec to 4 arcsec</td>
<td>1 arcmin to 5 arcsec</td>
<td>3 arcmin to 30 arcsec</td>
</tr>
<tr>
<td>Features</td>
<td>full redundancy (duplex)</td>
<td>simple and duplex</td>
<td>simple and duplex</td>
<td>simple and duplex</td>
</tr>
</tbody>
</table>
or trimmer configurations • Wide range shafts, bushings, terminal styles, resistance values, tapers, and tolerances • Special detents available

Benefits: Basic construction suits the series for countless design options; over a billion configurations available. Potential applications include audio and lighting controls.

43/RA20 Series.
Features: Wirewound element • 2 W power rating • RA20 meets MIL-R-19 standards • Rugged metal construction • Nickel-plated brass shaft • Lock-style bushing available • Linear taper

Benefits: Very stable over operating temperature. Potential applications include manual controls, wipe and heating.

58/RA30 Series.
Features: Wirewound element • 4 W power rating • RA30 meets MIL-R-19 standards • Rugged metal construction • Nickel-plated brass shaft • Lock-style bushing available • Linear taper

Benefits: Designed to be stable over operating temperature. Potential applications include manual controls, welding, and heating.

380/408 Series.
Features: Compact • Modular package • Conductive plastic element • 0.5 W power rating • Nickel-plated brass shaft and bushings • Enhanced performance • 408: sealed for board washing • PC and solder-hook terminals • CW audio and linear tapers available

Benefits: Reduced cost potentiometer that offers 0.5 W power rating in a compact body. Potential applications include manual controls, audio and lighting consoles, medical equipment, precision joysticks, and telecommunications.

381 Series.
Features: Conductive plastic element • 1 W power rating • Solder lug terminals • Metal case and nickel-plated brass shaft and bushings • Locking-style bushing, rotary switch, or dual section options available • Linear taper

Benefits: Known as the “quiet ones.” Economical potentiometer with rugged industrial construction. Model 53 is available in special construction that accepts a rotary switch. Potential applications include manual controls (joysticks, panel dials, throttles), electric vehicles, personal mobility, off-road vehicles, forklifts, welding/heating, and telecommunications.

388 Series.
Features: Conductive plastic element • 0.5 W power rating • Solder lug terminals • Metal case and nickel-plated brass shaft and bushings • Locking-style bushing, rotary switch, or dual section options available • Linear taper

Benefits: Robust construction in a low-cost industrial package. Potential applications include manual and audio controls, and telecommunications.

574 Series.
Features: Conductive plastic element • 0.5 W power rating • Reduced mounting profile • Quiet electrical output • Vertical mounting with support bracket • PC style mounting • Smooth feel • Robust construction • All plastic construction • Metric bushing • Linear taper

Benefits: Reduced cost commercial potentiometer with the benefits of a conductive plastic element. Potential applications include welding/heating controls, joysticks, and manual controls.

www.honeywell.com/sensing
578 Series.  
**Features:** Conductive plastic element  
- 0.5 W power rating  
- Variable resistor technology  
- Low mounting profile  
- Quiet electrical output  
- Precision control  
- PC terminals  
- Nickel-plated shaft and bushing  
- Smooth feel  
- Robust construction  
- Linear taper  
- Central tap version available  

**Benefits:** Precision-type potentiometer with low torque and very linear tapers delivers enhanced control. Potential applications include off-road vehicles, electric vehicles, marine controls, material handling, personal mobility, manual controls, telecommunications, and audio equipment.

585 Series.  
**Features:** Compact size  
- Carbon element  
- 0.05 W power rating  
- Horizontal mount  
- PC terminals  
- Metal shaft and bushings  
- Linear taper  

**Benefits:** Designed to be used as a low-wattage component that can be panel mounted or PC mounted. Robust construction in a low-cost commercial package, using carbon composition elements. Potential applications include manual and audio controls, heating equipment, and telecommunications.

590 Series.  
**Features:** Compact size  
- Conductive plastic element  
- 0.5 W power rating  
- Linear taper  
- PC terminals  
- Brass shaft and bushing  
- Linear taper  

**Benefits:** Reduced cost potentiometer with the benefits of a conductive plastic element. Potential applications include manual controls, lighting and audio consoles, precision joysticks, welding and heating, and telecommunications.

MKV Series.  
**Features:** Conductive plastic element  
- Linearity (accuracy) 0.5 % or less  
- 1 W power rating  
- Servo and bushing mounting  
- Custom electrical travels  

**Benefits:** A cost-effective way of obtaining enhanced accuracy and enhanced life position feedback. Potential applications include valve position feedback, panel control, instrumentation, and missile fin feedback position.

SensorCube Series.  
**Features:** Conductive plastic element  
- Linearity (accuracy) 2 % or less  
- 1 W power rating  
- Sealed construction  
- Custom electrical travels  

**Benefits:** Cost-effective potentiometer with sealed construction. Enhanced accuracy and reliability. Potential applications include valve position feedback, panel control, instrumentation, and off-road equipment.

TH100 Series.  
**Features:** Conductive plastic element  
- Fully sealed construction  
- Enhanced rotational torque  
- Variable resistor technology  
- 0.5 W power rating  
- Special electrical and mechanical configurations, including dual tracks and D-shaped rotor holes available  
- Linear taper  

**Benefits:** Enhanced performance rotary position transducer that works well in potential angle-management applications such as control-lever sensing and equipment position feedback. Potential applications also include off-road vehicles, electric vehicles, marine controls, material handling, and personal mobility.

NON-CONTACT, HALL-EFFECT POSITION TRANSDUCERS  
**HRS100 Series.**  
**Features:** Solid-state, Hall-effect technology  
- 90° mechanical rotation  
- Maximum ESD sensitivity of ±7 kV  
- Slotted shaft  

**Benefits:** Use of magnetically coupled information in place of a mechanical wiper assembly designed to provide an enhanced life and cost-effective solution for harsh environments that include temperature, vibration, dither, moisture, and dirt. Potential applications include throttle/speed position and control, inboard lever control, foot pedal position, steering position, suspension system position, seat and mirror position, tilt position, gimbal position and control, and manipulator arm position.

RESOLVERS  
**Honeywell Hawk™ 1-Inch Series.**  
**Features:** Non-contact magnetic technology  
- Fully-housed configuration with bearing/Shaft  
- Small outer diameter of 1 inch  
- Single speed operation (1 magnetic pole pair)  
- Excitation voltage range of 2 V to 15 V  
- Excitation frequency range of 2000 Hz to 5000 Hz  
- Transformation ratio of 0.45 or 1.0  
- Accuracy of ±7 arcmin  
- Operating temperature range of -50°C to 93°C [-60 °F to 200 °F]  

**Benefits:** Non-contact magnetic technology eliminates mechanical contact, reducing wear and improving reliability and durability by enhancing operation in harsh environments (performance is not affected by sand, dust or water). Small outer diameter of 1 inch allows for use in size-restricted applications. Single speed operation (1 magnetic pole pair) allows for cost-effective angle resolution over a 360°+ range. Wide voltage range allows customers to standardize on a resolver that meets their excitation voltage needs, simplifying sourcing and delivery, and saving time. Frequency range provides a wide variety of choices with which to power the device. Transformation ratios offer customers two choices, increasing flexibility within the application. Accuracy enables precise motion control of weapon systems and space positioning devices. Wide operating temperature range allows for use in harsh environments and meets standard military and space application requirements. Product delivery up to 1.5 times faster than many competitive products. Customization due to Honeywell's manufacturing process. Global support due to Honeywell's worldwide presence. Engineering expertise due to Honeywell's 30+ years’ experience providing accurate, reliable, and durable resolvers for the aerospace and defense industries. Potential applications include providing absolute position feedback of the azimuth and/or elevation angular planes for military
electro-optical systems, fire control systems, gimbals, infrared systems, ordnance delivery and test equipment, as well as satellite, space station, space vehicle solar panel array and antennae positioning for optimum function.

**Cased-Brushless Dual Speed Series.**

**Features:** (1/10 in) 30 • 20 arcsec accuracy • Speed: 1&32 • Non-contact measurement for enhanced reliability • 360° sensing range • Multi-speed designs available for enhanced accuracies over reduced ranges • Variety of excitation voltages and frequency • Environmentally sealed and qualified to RTCA DO-160D

**Benefits:** One-speed and multi-speed resolver and rotary transformer. Potential applications include ATOM – gunners site position (azimuth and elevation), forward looking radar, missile guidance, solar panel position, and antenna position.

**Cased-Brushless Single Speed Series.**

**Features:** (1/10 in) 17 • 1.25 arcmin to 3.5 arcmin accuracy • Non-contact measurement for enhanced reliability • 360° sensing range • Multi-speed designs available for enhanced accuracies over reduced ranges • Variety of excitation voltages and frequency • Environmentally sealed and qualified to RTCA DO-160D

**Benefits:** One-speed, one pole pair resolver and rotary transformer. Potential applications include ATOM – gunners site position (azimuth and elevation), forward looking radar, missile guidance, solar panel position, and antenna position.

**Pancake-Brushless Dual Speed Series.**

**Features:** Full redundancy (duplex) • (1/10 in) 92 • 30 arcsec accuracy (multi-speed) • Speed: 1&64 • Non-contact measurement for enhanced reliability • 360° sensing range • Multi-speed designs available for enhanced accuracies over reduced ranges • Variety of excitation voltages and frequency • Environmentally sealed and qualified to RTCA DO-160D

**Benefits:** One-speed and multi-speed resolver and rotary transformer. Potential applications include ATOM – gunners site position (azimuth and elevation), forward looking radar, missile guidance, solar panel position, and antenna position.

**Pancake-Brushless Multi-Speed Series.**

**Features:** Redundant winding • (1/10 in) 38 to 63 • 3 arcmin to 30 arcsec accuracy (low-distortion harmonic) • Speed: 12 • Non-contact measurement for enhanced reliability • 360° sensing range • Multi-speed designs available for enhanced accuracies over reduced ranges • Variety of excitation voltages and frequency • Environmentally sealed and qualified to RTCA DO-160D

**Benefits:** One-speed and multiple speed. Potential applications include ATOM – gunners site position (azimuth and elevation), forward looking radar, missile guidance, solar panel position, and antenna position.

**Pancake-Multi Speed Series.**

**Features:** Simple and duplex • (1/10 in) 16 to 67 • 1 arcmin to 5 arcsec accuracy • Variety of speeds available: 4, 8, 16, 32, 64 • Non-contact measurement for enhanced reliability • 360° sensing range • Multi-speed designs available for enhanced accuracies over reduced ranges • Variety of excitation voltages and frequency • Environmentally sealed and qualified to RTCA DO-160D

**Benefits:** One-speed and one-pole pair. Potential applications include ATOM – gunners site position (azimuth and elevation), forward looking radar, missile guidance, solar panel position, and antenna position.
**Warranty.** Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell’s standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. The foregoing is buyer’s sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

For more information about Sensing and Control products, visit www.honeywell.com/sensing or call +1-815-235-6847. Email inquiries to info.sc@honeywell.com.