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HONEYWELL EXPANDS HALL-EFFECT ROTARY POSITION SENSOR PORTFOLIO WITH NEW RTY SERIES

Customizable, Durable Sensors Provide an Industry-Leading 12M Cycle Product Life for Use in Harsh Industrial and Transportation Applications

MINNEAPOLIS, February 13, 2012 – [Honeywell](#) (NYSE:HON) today introduces its RTY Series Hall-Effect Rotary Position Sensors that provide a cost-effective rotary position sensor solution with a variety of options (e.g., sensing range, pinout, voltage) that allow customers to customize the sensor configuration to meet their specific application needs, especially those in harsh environments.

“Design engineers need an absolute position sensing solution that meets their specifications without being over-engineered,” said Chris Gottlieb, senior global product marketing manager for Honeywell Sensing and Control. “The cost-effective, configurable RTY Series is an ideal solution. Design engineers will appreciate the sensor’s industry-leading 12 million cycle product life and eight operating ranges, up to 360°, that often allow OEMs the range of travel needed for the application.”

The RTY Series’ solid-state Hall-effect technology provides non-contact operation and low torque actuation which reduces worn-out mechanisms and at least a 12M cycle product life. The sensor’s IP67-sealed package has an integral connector. The integrated reverse polarity protection provides protection against installation errors. Robustness against electromagnetic interference is proven out by automotive-grade EMI/EMC testing. Industry-standard AMP termination, 32 mm mounting pitch, North American and European pinout styles, and the compact package provide easier drop-in replacement in existing applications.

The RTY Series uses a magnetically biased, Hall-effect integrated circuit (IC) to sense rotary movement of the actuator shaft over a set operating range. Rotation of the actuator shaft changes a magnet’s position relative to the IC. The resulting flux density change is converted to a linear output. The IC, together with

conditioning and protection circuitry, and the permanent magnet, is sealed in an IP67-qualified package for durability in most harsh environments.

Eight operating ranges (50°, 60°, 70°, 90°, 120°, 180°, 270°, and 360°) are tolerant to over-travel and allow OEMs to choose the range of travel needed for their specific application. Low voltage and high voltage versions cover an input voltage range of 4.5 Vdc to 30 Vdc. Most applications require no lever, and no brackets are necessary.

Potential transportation applications for the RTY Series sensor include position and movement detection of pedals, throttles, gear shift, levers, steering, linkages, and hitches (trucks, buses, off-road vehicles, industrial/construction/agricultural vehicles and equipment, cranes), suspension displacement/kneeling (buses, trucks), and tilt/trim position (boat engines, tilling equipment).

Potential industrial applications for the RTY Series sensor include valve and HVAC damper control, and irrigation pivot control.

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