

## **MEDIA RELEASE**

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### **PENNY + GILES EXTENDS SRH ROTARY POSITION SENSOR RANGE WITH ADDITION OF 0 TO 10VDC VERSION**

**Christchurch, UK – 9<sup>th</sup> August, 2011** – Penny + Giles, a business group of Curtiss-Wright Controls and a designer and manufacturer of position sensors, solenoids, and manual controllers, has introduced a new 0 to 10Vdc output version of its SRH220DR dual redundant output contactless rotary position sensor.

This SRH220DR, which uses proven, non-contact programmable Hall effect technology to provide OEMs with highly reliable and accurate rotary measurement for factory automation and process control applications, has a low output signal noise of less than 1mVrms and an input/output delay of 3.5mS.

This new rotary position sensor has a choice of integrated 6-way connectors and provides numerous factory-programmed options. Designed for operation in extreme temperatures, the Penny + Giles SRH220DR enables system designers to quickly and easily improve the safety and integrity of control systems by using the dual independent power supply and output signals, which allows compliance with SIL-2 requirements for systematic safety as defined in IEC 61508.

The rugged SRH220DR is ideal for use in arduous environments (-40 to +115°C) and suitable for applications in factory automation systems and process control machinery where a 0 to 10Vdc analog voltage signal is commonly used by machine controllers and recording instruments to monitor, control and record the status of equipment.

The configurable SRH220DR provides numerous parameter options including measurement range and clockwise or anticlockwise direction output. This flexibility provides OEMs with greater control to configure the sensor to best suit their needs and achieve maximum performance.

With the 0 to 10Vdc output option, the SRH220DR can operate from a 13.5-30Vdc unregulated power supply and is available factory-programmed with any one of 341 different angles from 20 degrees up to 360 degrees, in one degree increments. The Penny + Giles sensor also provides 12 bit resolution (0.025%) over the selected measuring range.

Unlike conventional shaft-operated rotary position sensors, the SRH220DR has an integrated shaft and magnet assembly that activates the Hall effect sensor through a hermetically-sealed chamber. This allows the sensor to be used in extreme environments that are subjected to high shock and vibration, and endure immersion in fluids for short periods (IP68 protected).

The sensor's moulded housing includes a crush-proof mounting flange detail which has stainless steel inserts, allowing fitting and re-fitting of the sensor without damage to the flange. The housing also includes a choice of integrated 6-way connectors compatible with AMP Superseal 1.5 or Deutsch DT06 profiles.

The addition of the 0 to 10Vdc version further eases configuration, with factory-configured options also including analogue (0.5 to 4.5Vdc) or digital (Pulse Width Modulated) signal outputs as standard. The SRH220DR can also be factory programmed to offer 0.1 to 4.9Vdc output range, matching the equivalent signals from a potentiometer and the two outputs can be used for error checking if they are set up to be opposed (clockwise on the first signal and anticlockwise on the second signal) and the output summed.

The Penny + Giles SRH220DR features electromagnetic immunity to 100V/m and its very low maximum output signal noise of less than 1mV means that no additional signal filtering is required on the output signal. It also has a class-leading non-linearity of  $\pm 0.4\%$  and, when powered with 5Vdc regulated supply, has an operating temperature range from -40 to +140°C, with a stability of less than  $\pm 30\text{ppm}/^\circ\text{C}$ . An optional lever arm kit can be supplied, where installations require this feature.

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**About Curtiss-Wright Controls Integrated Sensing, Penny + Giles**

Penny + Giles is a global leader in the design and manufacture of specialist position sensors, solenoids and control hardware for industrial and defence markets. Headquartered in Christchurch, Dorset, United Kingdom, Penny + Giles is part of Curtiss-Wright Controls Integrated Sensing, a business unit of Curtiss-Wright Controls, Inc. For more information visit [www.pennyandgiles.com](http://www.pennyandgiles.com).

**About Curtiss-Wright Controls, Inc.**

Headquartered in Charlotte, N.C., Curtiss-Wright Controls is the motion control segment of Curtiss-Wright Corporation (NYSE: CW). With manufacturing facilities around the world, Curtiss-Wright Controls is a leading technology-based organization providing niche motion control products, subsystems and services internationally for the aerospace and defence markets. For more information visit [www.cwcontrols.com](http://www.cwcontrols.com).

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