

Magnetic encoder modules offer non-contact alternative to potentiometers with ultimate reliability and no wear

Potentiometers provide low cost, analogue position feedback with simple integration. However, they are subject to degradation of performance, or even failure, due to wear and contamination. A dirty or worn potentiometer can provide noisy, unreliable operation, requiring periodic replacement.

A new generation of non-contact solid-state devices provides a rising voltage output from a simple three-wire system to provide a viable alternative to traditional potentiometers but with virtually unlimited life, no wear and insensitivity to contamination. These devices provide all the ease of use of a conventional potentiometer but with none of the limitations.

Developed in association with its associate company RLS d.o.o., Renishaw's range of magnetic encoder modules can provide a linear output voltage, proportional to the rotation angle, like a potentiometer, but without any physical contact. These devices can be IP68 sealed for outdoor or submerged operation. Renishaw's digital pot magnetic encoders are impervious to environmental contamination with dirt, grease, oils, dust and debris being no problem. These are 100% solid state devices so they are insensitive to shock and vibration. They have no wipers, seals, bearings or other moving parts to wear out or become contaminated, offering 100% non-contact operation for the ultimate reliability.

A small package size, and low cost, make the Renishaw digital pot encoder an ideal choice when looking for a higher reliability alternative to traditional potentiometer feedback.

For more information about Renishaw's full range of position encoders, including magnetic encoder modules, magnetic encoder chips, magnetic rotary encoders, magnetic linear encoders and magnetic ring encoders, plus optical linear encoders and optical angle encoders, please visit:

www.renishaw.com

