Contact-free DC-Operated Rotary Position Sensors Features 0.1 Percent Linearity Over 120° Measurement Range

Macro Sensors introduces its RS 1500-120 series of fractional-turn contactless rotary position sensors for measuring the angular displacement of rotating elements such as quarter-turn ball and butterfly valves, air flow dampers, and diverter gates used in packaging and postal sorting machinery. Available as the RSE 1500-120 with a 24V DC input and a 0-to-10V DC output, or as the RSI 1500-120 with a 2-wire 4-20 mA loop-powered transmitter I/O, these units are adaptable to a wide variety of industrial automation and process control applications. Although their shafts can rotate a full 360º, the sensors utilize contactless inductive technology to measure shaft angle position over a nominal range of. These units exhibit a linearity error of less than 0.10 percent of full range output, have an IEC IP-66 environmental rating, and operate at temperatures from 0ºF to 185ºF (-20ºC to 85ºC). The RSE 1500-120 supplies a true 0-to-10V DC output from a nominal 24V DC power supply. The RSI 1500-120 rotary position sensor can be connected either as a loop powered two-wire 4-20 mA transmitter, or as a three-wire sourcing current transmitter using an external 24 V DC loop power supply. The voltage output version is a natural adjunct to PLC-controlled automation systems or PC-based data acquisition equipment.
Macro Sensors
856-662-8000, www.macrosensors.com [1]

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