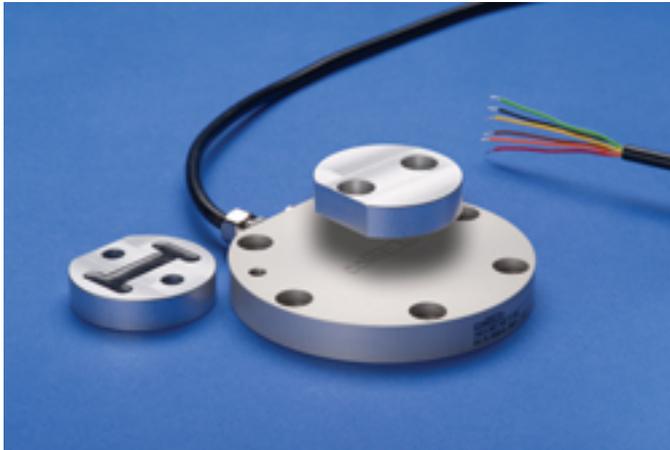


Rotary Angle Sensors Are Touchless



Novotechnik U.S. introduced the Vert-X 90E Series of touchless rotary angle sensors. These sensors use a magnetic pick up that is secured to the rotating object, so that there is no direct mechanical linkage between the shaft and the measuring system, and therefore no wear. The height of a Vert-X 90E Series sensor is a thin 0.59 inch, and they are 3.54 inches in diameter. Measurement range is 0 to 360°, and repeatability is 0.1. These rotary sensors are designed for harsh environments with environmental protection class rating of IP68 or IP69 depending on model. The sensors can be programmed by customers or at the factory for the slope of the linear output, zero and end-points, mid-point and switch steps so customers can optimize this angle sensor for their specific application. According to the company, these sensors can help achieve cost savings by eliminating the need for other components to specify the angles they want to measure from and to, choose an intermediate plateau or not, sense of rotation function (CW or CCW), V-output function and switch functions.

Program the Vert-X 90E Series is achieved using a programming tool called Vert-X Easy Adapt connected to a PC to choose between six modifiable linear output curve characteristics.

Key specifications for Vert-X 90E include 5V and 24V supply versions, up to two switch outputs, resolution to 14-bit, independent linearity to 0.3%, and hysteresis of $\pm 0.1^\circ$. MTBF is 1.3 million hours and higher depending on version. Output options include voltage of 10 to 90% of power supply, SPI, and PWM. Redundant output versions are offered as well.

Vert-X 90E Series sensors are absolute sensors so they retain their values even after power interruptions. They are ideal for off-highway and special purpose vehicles as well as applications requiring a thin or programmable sensor.

Novotechnik U.S.

508-485-2244, www.novotechnik.com [1]

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