

Angle Encoders

The Signum RESM optical angle encoders make an ideal fit for direct drive rotary (DDR) motors, eliminating position error and backlash while delivering speeds to over 3,600 rev/min, accuracy to ± 0.5 arc second, plus resolution and repeatability to 0.02 arc second. The RESM encoder features a large diameter, low-profile stainless steel ring that mounts directly to the machine shaft, avoiding coupling losses, oscillation, shaft torsion, and other hysteresis errors inherent with sealed encoders. The direct-mount, low-inertia ring design eliminates transmission components and encoder couplings, improving stiffness, and dynamic response.

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