

CONTACTLESS ROTARY POSITION SENSOR



Our rotary position sensor grew out of finally getting fed up with chintzy, cheap, plastic rotation sensors. After having to deal with some of that garbage, we decided to develop our own. Machined from solid billet aluminum and environmentally hardened, we might have overdone it, but you'll love the durability. It's fully contactless, leveraging hall-effect technology to provide angular position without using a potentiometer that will wear over time. It's a good fit for several applications, but commonly used for boom rotation, steering angle, and articulating arm position. It'll rotate through 360°, and will run off of a standard 12V supply, providing 0.5 - 4.5V feedback. We've almost always got them available in stock and ready for order in our store if you're ready to test in your application.

ELECTRICAL

Output voltage range	0.5 to 4.5VDC	Reverse protection	-10.0VDC
Operating temperature	-40° to +85° C	Overvoltage protection	>30VDC 1500W
Angular range	0° to 360° Continuous	Transfer function	Linear across full range
Supply voltage	6 To 30VDC	Independent linearity	<±1% across full range
Supply current	8.5mA Typical, 11mA Max	Resolution	Infinite/Stepless
Output current	8.0mA Max	Unpowered ESD	3000VDC Each Lead
Output load	10K Typical	RFI filter	Integrated in Sensor

PHYSICAL

Vibration/Drop	30G max, functions after 1m drop
Operational life	>10,000,000 operations
Environmental	Epoxy-encapsulated Electronics
Connector	3-pin Deutsch Connector - DT04-3P, 12 inch Cable
Housing	Anodized Aluminum

