

CONTACTLESS ROTARY POSITION SENSOR



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Features

Kar-Tech's contactless rotary position sensors have been specially designed to provide unparalleled performance under the most extreme conditions. They are used on a variety of applications for measuring angular position. Typical applications include boom pivot rotation, boom swing rotation, and steering angle. The sensor is constructed of heavy-duty anodized aluminum, and is fully sealed against the elements – perfect for mobile applications.

General

Output voltage range	0.5 to 4.5VDC
Operating temperature	-40°C to +85°C
Angular range	0° to 360° continuous
Supply voltage	5.0VDC regulated or 7-30VDC
Supply current	8.5mA typical, 11mA max
Output current	8.0mA max.
Output load	10K typical
Reverse protection	-10.0VDC
Overvoltage protection	20.0VDC
Transfer function	Linear across full range
Independent linearity	<±1% across full range
Resolution	Infinite/stepless
Unpowered ESD	3000VDC each lead
RFI filter	Integrated in sensor
Vibration/drop	30G max, functions after 1m drop.
Operational life	>10,000,000 operations
Environmental	Epoxy-encapsulated electronics
Connector	3-pin male Weatherpak
Housing	Anodized aluminum

