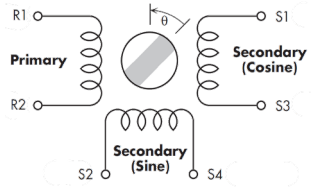
BRUSHLESS RESOLVERS QUICK GUIDE – FOR HARSH ENVIRONMENTS















PRODUCT	RE2010 Smallest, Size 08	RE3620 Size 15	RE5032 Size 20	RE7557 Size 30	RE15L Size 15	R11XJ107 R11XJ107N Size 11 Shafted Resolver
Description	Brushless Frameless Resolver High Reliability, Innovative Solid Metal, Magnetically Shaped Rotor Ideal for Dynamic Environments (including Aerospace, Space, Heavy Machinery) Standard Gap=0.3mm, Custom Gap to 1mm available				General Purpose, Brushless Frameless Resolver with Wired Rotor	Precision shafted brushless resolver with integral bearings
Outer Diameter	20mm	36mm	50mm	75mm	36mm	1.1" or 28mm
Bore or Shaft	4mm	10mm	20mm	46mm	10mm	0.120" Shaft
Excitation Frequency	5/10 kHz	5/10 kHz	5/10 kHz	5/10 kHz	5/10 kHz	5 kHz
Transformation Ratio (TR)	0.5	0.5	0.5	0.5	0.5	0.95
Pole Pairs	Single Speed	Single Speed	Single Speed	Single Speed	Single Speed	Single Speed
Accuracy	60 arcmin	60 arcmin	60 arcmin	60 arcmin	10 arcmin	7 arcmin
Max Speed (rpm) • Std Speed • High Speed	 150'000 rpm 160'000 rpm	 100'000 rpm 120'000 rpm	 60'000 rpm 65'000 rpm	 25'000 rpm 28'000 rpm	20'000 rpm	20'000 rpm
Temperature Rating • Std Temp • High Temp • Cryogenic	 -40°C to +135°C -70°C to +200°C -196°C to +200°C	 -40°C to +135°C -70°C to +200°C	 -40°C to +135°C -70°C to +200°C	 -40°C to +135°C -70°C to +200°C	-55°C to +155°C	-40°C to +125°C
Mounting Note	For thermal interference fit onto stainless steel shaft, order High Temperature/High Speed Version (rotor material is SS, provides TC match to SS shaft)				---	---
Outgassing Note	For applications requiring low outgassing, order High Speed version				Not Available	Order R11XJ107N
Radiation Resistance	Order High Temperature Version				Not Available	Order R11XJ107N

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QR Code to EM Resolvers

micronor sensors

MICRONOR SENSORS, INC.
www.micronor.com

2065 SPERRY AVE, STE B
VENTURA, CA 93003 USA

+1-805-389-6600
sales@micronor.com