

RE5032 SERIES





Product description

The MICRONOR RE5032 frameless Resolver provides high performance in measurement and feedback applications where traditional resolver fail. Perfect for Aerospace, Space, Submarine or other severe applications. The solid rotor has no coils and the stator has only half the number of windings of a traditional brushless resolver, reliability is significantly increased. Solid rotor allows operation with the rotor oil or other liquids.

Application

Applications are Industrial tachometer, High-speed spindles, Motor feedback, for AC and DC Servo Motors, Angle measurement, Flight control systems, Hydraulic pumps, Down hole.

Technical Data

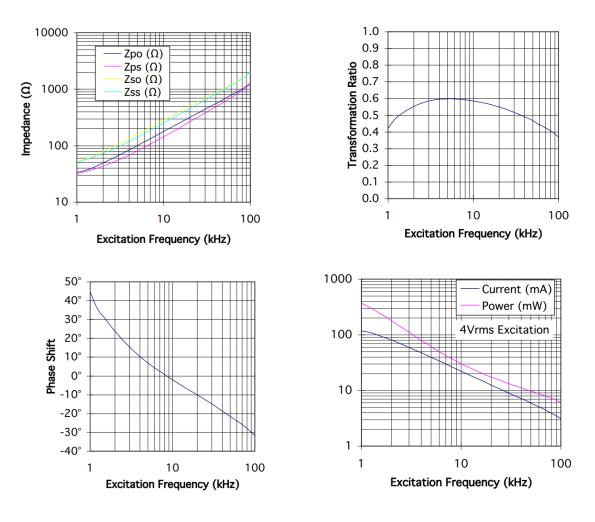
Max. dimension	ø 50 mm
Accuracy	+/- 60 arc minutes
Bore diameter (mm)	ø 20-H7
Cable outlet	axial 300 mm
Lead wire size	26 AWG
Electrical data	
Excitation frequency	8 kHz typical
Excitation amplitude	5 Vrms typical
Primary DC resistance	20 Ohm (+/- 10%)
Secondary DC resistance	27 Ohm (+/- 10%)
Transformation ratio	0,45 (+/- 10%)
Insulation resistance	100 Mega Ohm minimum
Dielectric strength	(Hipot)
winding to winding	300 Vac
• •	500 Vac
winding to housing	
Mechanical data	
Operating temperature	(see order code)
Maximum speed	(see order code)
Radial air gap	0,3 mm nominal
Rotor inertia	200 gxcm2
Shock resistance	200 gxcm2 20G
	1050Hz, 10G over 0.5 Std.
Vibration	

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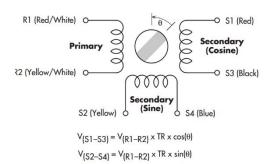
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Electrical Outline drawing (only for info not absolute value)



Electrical connection

Ref+	red/white	R1
Ref-	yel/white	R2
Cos+	red	S1
Cos-	black	S3
Sin+	yellow	S2
Sin-	blue	S4



 $\boldsymbol{\theta}$ increases for CCW rotation when viewed from lead exit end

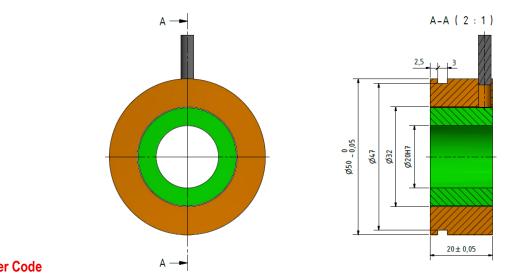
No-shaft brushless resolver Size 50mm



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Reference drawing in mm



Order Code

Order Key		/	RE5032-1-1 a b		
Configuration a Temperature					
a	1	Standard	-40°C bis +135°C		
	2	High temperatu	re –70°C bis +200°C (also radiation resistant)		
b	Speed 1 2	Standard High Speed	60'000 U/min 65'000 U/min		

Contact Micronor Sensors for special bores, special 1mm gap, and higher speed models.