SERIES RF25

NorthStar[™] brand

Heavy Duty Resolver

Key Features

- Flange Mount Rugged Housing Immune to Oil, Salt, Water & Dust
- Spaced Bearings for up to 10x the Life of **Traditional Duplex Bearings**
- Withstands 200g Shock and 40g Vibration
- **Shaft Seal Standard**
- Suitable Replacement for the Reliance Automax Resolvers 800123-2R and 800123-2S*



SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

ELECTRICAL	1J Winding	2J Winding	
Sensing Method	Sine/Cosine	Sine/Cosine	
Electrical Cycles	1	2	
Excitation	26 Vrms - 2.4 kHz	26 Vrms - 2.4 kHz	
Input Current	22 Max mArms	45 Max mArms	
Null Voltage	25 Max mVrms	25 Max mVrms	
Electrical Error	10 ArcMin Max	10 ArcMin Max	
DC Resistance (R1-R2)	255 Ohms	190 Ohms	
DC Resistance (S1-S3 and S2-S4)	176 Ohms	322 Ohms	
Transformation Ratio	0.454	0.454	
Phase Shift	6 degrees	18 degrees	
Dielectric Strength to Case	500 VAC w/2 Max mArms	500 VAC w/2 Max mArms	
Dielectric Strength to Phase to Phase	250 VAC w/2 Max mArms	250 VAC w/2 Max mArms	

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of their respective holders. Use of them does not imply any affiliation	ı
with or endorsement	

MECH	IANI	CAL
Shaft	Size	: 3/8

Mounting Type: Square Flange Max Radial Shaft Load: 60 lbs. Max Axial Shaft Load: 40 lbs. Max Continuous Speed: 6,000 RPM Moment of Inertia: .004 oz-in-sec² Bearing Life: 2x108 Revs at rated shaft load

Housing and Cover: Aluminum Shaft Material: 416 Stainless Steel Weight: 1.6 lbs.

ENVIRONMENTAL

Operating Temperature: -55 to +125°C Storage Temperature: -55 to +125°C Shock: 200G at 11 milliseconds time duration. Half sine waveform per Mil-S-81963 Vibration: 40G at .06 inch double amplitude at 10-2000 Hz per Mil-S-81963

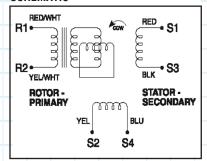
Humidity: to 98% without condensation

Enclosure: IP65

ELECTRICAL CONNECTIONS

Pin A	Pin A	Pin	Pin	Cable Color
	А	Е		
_		L	A & B	Red w/ White
В	Н	F	C & D	Yellow w/White
С	В	С	E & F	Red
D	I	D	G & H	Black
F	С	В	L & M	Blue
Е	J	А	J & K	Yellow w/Blue
G	G	-	-	-
	C D F E	C B D I F C E J	C B C D I D F C B E J A	C B C E & F D I D G & H F C B L & M E J A J & K

SCHEMATIC



NorthStar™ brand

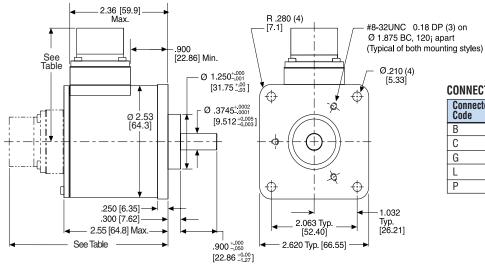
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Ordering Information

To order, complete the model number with code numbers from the table below:

Code 1: Model	Code 2: Resolver Speed	Code 3: Shaft	Code 4: Termination	Code 5: Connector Exit	Code 6: Special Opions
RF25 -	– [1]	W	L	S	A
	Ordering Information				
RF25 Heavy Duty Flange Mount Resolver	1J 2J	R Round F Round with Flat W Round with Two Flats @ 90 Degrees	B MS3102E-16S-1P C MS3102E-18-1P F Flying Leads G MS3112E-10-6P P PT02E-14-19P	R Rear Exit S Side Exit	A None

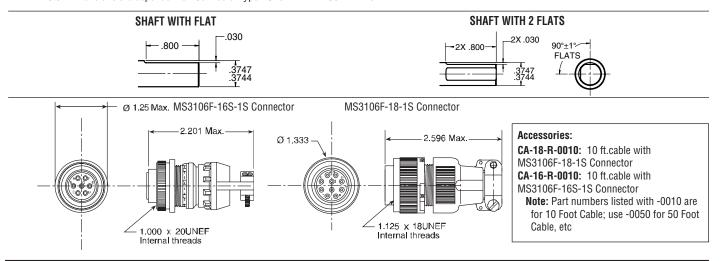
DIMENSIONS inches [mm]



CONNECTOR LOCATION

Connector Code	Connector Type	Side Location	Rear Location
В	7 Pin Screw Type	2.51 inch	3.74 inch
С	10 Pin Screw Type	2.90 inch	4.12 inch
G	6 PinTwist & Lock	2.32 inch	3.54 inch
L	11 PinTwist & Lock	2.29 inch	3.55 inch
Р	19 PinTwist & Lock	2.40 inch	3.62 inch

Note: Dimensions are dependent on Connector type - Shown with MS3112E-18-11P



Harowe™



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