SERIES RIM Tach 8500 NorthStar™ brand

Bearingless Encoder

Key Features

- Compact, Bearingless Design Mounts to 180-C Face Motors
- **Sensor Modules are Removable On-The-Fly** and Require No Gapping
- Stainless Steel and Ductile Cast Iron **Construction for Harsh Mill Environments**
- Magneto-Resistive Technology Resists **Dust, Dirt, Oil, Water and Other Common Contaminants**

This product has been discontinued and replaced by the RIM Tach RT8 series. Please visit www.dynapar.com for more information







SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

Code: Incremental, Magnetic Pulses per Revolution: 60-1200 PPR

Phasing Sense: A leads B for Counter-Clockwise rotation (CCW) viewing encoder-mounted end

Quadrature Phasing: 90° ± 22°

Symmetry: 180° ± 54°

Index: 270°, ungated (optional gated to

falling B edge)

Number of Output Modules: Single or Dual

MECHANICAL

Bore Sizes: 5/8" to 3.75"

Mounting Configuration: 8.5" 180 C-Face Mount

for NEMA MG1 Standards Shaft Speed: 7,000 RPM Shaft Length Required: 2.5" min Allowable Shaft End-Play: ± 0.050" Allowable Shaft Runout: 0.003" TIR

Acceleration Rate: 3600 rpm/sec max Housing Material: Cast Iron/Stainless Steel

Weight: 26.5 lbs

ENVIRONMENTAL

Operating Temperature Range:

Standard: -40°C to +90°C Extended: -40°C to +100°C

Storage Temperature Range: -40°C to +120°C

Shock (Sensor Module): 30 G's Min Vibration: 18 G's @ 5-2000 Hz spectrum **Humidity:** Up to 98% (non-condensing)

ELECTRICAL

Input Power Requirements: 5-15 VDC. 15-26 VDC, 45 mA typical per sensor module plus line driver load

Output Signals:

4428 Differential Line Driver: 150mA, sink or

Frequency Response: 0 - 120kHz Data & Index Noise Immunity: Tested to EN61326-1

Electrical Immunity: Reverse polarity and short

circuit protected Connector: 10 pin industrial duty latching, sealed NEMA 4 &12. IP65

ELECTRICAL CONNECTIONS

Signal	Connector Pin	Pigtail Cable	MS 3102E18-IT#	
Common	1	Black	A	
В	2	Green	Ė	
Α	3	Blue	D	
Z *	4	Violet	C	
No Connection	5	_	-	
Vcc	6	Red	В	
B	7	Yellow	H	
Ā	8	Gray	G	
Z *	9	Orange	1	
Shield	10	Braid	J	

^{*} Index (Z) optional. See Ordering Information

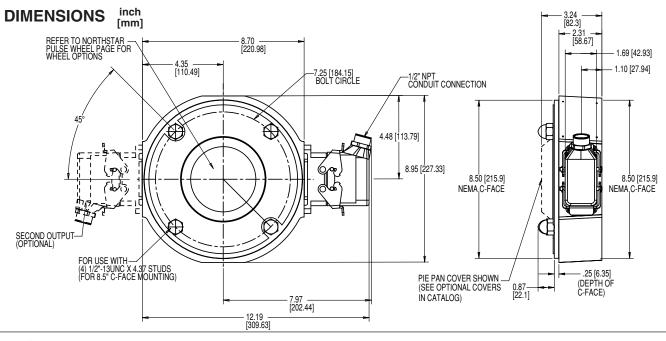
NorthStar™ brand SERIES RIM Tach 8500

Ordering Information

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

Cod	de 1: Model	Code 2:	PPR	Code 3: Index	Code 4: Wheel Bore	Code 5: Output	Code 6: Electrical	Code 7: Termination			
	R8										
	Ordering Information										
R8	Motor Mount Ring, for Nema 8 1/2" C-Face Motors (180C)	0064 0 0075 0 0120 0 0128 0 0150 1	3300 1480 1512 1600 1960 024 200	L No Index Available when Code 2 is 0480, 0512, 0600, 0960 1024 or 1200 G Gated Index (Z, \(\bar{Z}\)) Z Differential Index (Z, \(\bar{Z}\))	J04 5/8" J05 7/8" J06 1.00" J07 1-1/8" K09 1-3/8" K10 1-1/2" K11 1-5/8" K12 1-3/4" K13 1-7/8" K14 2" K15 2-1/8" K16 2-1/4" K17 2-3/8" K18 2-1/2" K19 2-7/8" For additional bore sizes up to 3.75" maximum, please consult factory. End of shaft mounting for GE & Emerson Motors E01 1.125" E0S E06 2.125" E0S E08 2.375" E0S E10 2.875" E0S	1 Single Output 2 Dual Output, (Isolated) Differential, Bidirectional signals (A, Ā, B, Ē)	L 5-15V in, 5-15V Line Driver (4428) out H Same as L with extended temp. to 100°C R 15-26V in, 15V Line Driver (4428) out 5 5-15V in, 5V Line Driver (4428) out	C Latching Industrial Connector with 1/2" NPT F Latching Industrial Connector without Mating Connector M 10 pin MS Connector P 18" Pigtail Q Latching Industrial Connector on 18" Cable R Latching Industrial Connector on 18" Pigtail Cable without Mating Connector			

Note: See ACCESSORIES Section For Connectors, Grounding Brushes, Spare Parts and Pulse Wheels





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