SERIES RIM Tach 1250 NorthStar™ brand

Bearingless Encoder

Key Features

- Bearingless Design Mounts to 250-C Face Motors (12.5" Diameter Mounting Flange)
- 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 RT1 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

ELECTRICAL

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

Output Signals: 4428 Differential Line Driver: 150mA, sink or source

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

MECHANICAL

Bore Sizes: 5/8" to 8" Available

Mounting Configuration: 12.5" C-Face Mount for

NEMA MG1 Standards

Shaft Speed: 7,000 RPM (J or K wheels); 3600

RPM (TL wheels)

Shaft Length Required: 3.0" 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: 38.5 lbs

ENVIRONMENTAL

Operating Temperature Range: -40°C to +80°C Storage Temperature Range: -40°C to +120°C Shock (Sensor Module): 30 G's Min

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

ELECTRICAL CONNECTIONS

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

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

NorthStar™ brand SERIES RIM Tach 1250

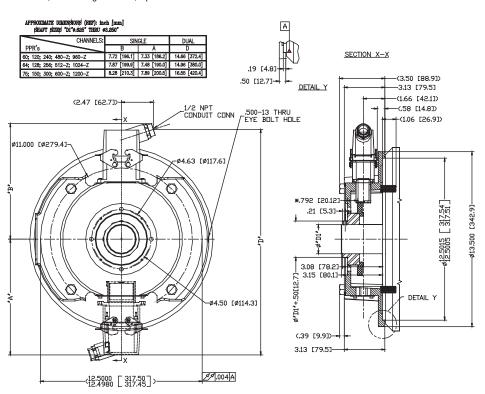
Ordering Information

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

Co	de 1: Model	Code	2: PPR	Code 3: Index	Code 4: Wheel Bore	Code 5: Output	Code 6: Electrical	Code 7: Termination			
	R1										
	Ordering Information										
R1	Motor Mount Ring, for 12-1/2" C-Face Motors	0060 0064 0075 0120 0128 0150 0240 0256	0300 0480 0512 0600 0960 1024 1200	L No Index Available when Code 2 is 0480, 0512, 0600, 1024, 1200 or 2048 G Gated Index (Z, ₹) Z Differential Index (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 8.0" maximum, please consult factory.	1 Single 2 Dual (Isolated) Differential, bidirectional signals (A, Ā, B, B)	L 5-15V in, 5-15V Line Driver (4428) out 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			

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

DIMENSIONS





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