

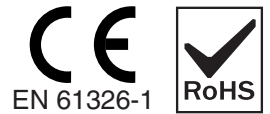
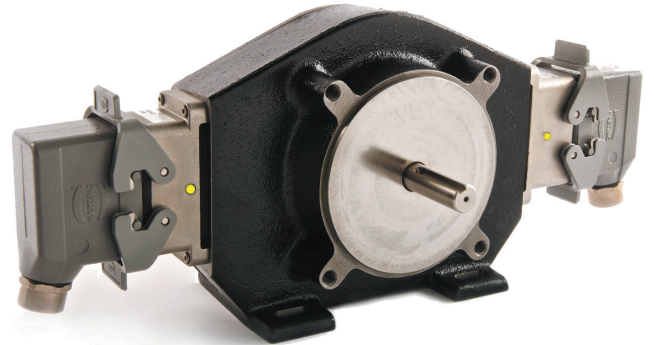
NexGen RIM Tach 6200 NorthStar™ brand

Mill-Duty Encoder

Key Features

- **Stainless Steel and Ductile Cast iron Construction for a Rugged Heavy Duty Encoder**
- **New Sensor Technology provides Extra Wide Gap for even Higher Reliability**
- **Extra Heavy Duty Bearings for Long Life**
- **Redesigned Circuitry for On-Board Diagnostics with LED and Alarm Output**
- **Foot-Mount or 56-C Face Mount Ideal for “Flower Pot” or Belt Drive Applications**

HD
Heavy Duty



SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

Code: Incremental, Magnetic
Pulses per Revolution: 60 to 4096 PPR
Phasing Sense: A leads B for Counter-Clockwise rotation (CCW) viewing the 4.5" C-face end of the Encoder
Quadrature Phasing: 90° ± 45°
Symmetry: 50% ± 15%
Number of Output Modules: Single or Dual

ELECTRICAL

Input Voltage Requirement: 5-26 Volts DC
Current Requirement: 95 mA typical per sensor module plus line driver load
Output Signals: IC-WE Differential Line Driver: 150mA, sink or source
Frequency Response: 0 - 180kHz 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

Shaft Size: 0.625" (16mm) diameter with standard key, single or double ended
Shaft Speed: 7,000 RPM
Shaft Axial/Radial Loading:
High Strength Steel: 50 lb axial, 50 lb radial
Stainless Steel: 35 lb axial, 35 lb radial
Mounting Configuration: 4.5" [115mm] diameter, 56 C-Face Mount or accessory flange to meet NEMA MG1-4 standards; foot mount with 4 slotted bolt holes
Acceleration Rate: 3600 rpm/sec max
Housing Material: Cast Iron/Stainless Steel
Shaft Material Options: High Strength Carbon Steel or Stainless Steel
Weight: 27.6 lbs

ENVIRONMENTAL

Operating Temperature Range: -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 CONNECTIONS

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

* Index (Z) optional. See Ordering Information

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Ordering Information

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

Code 1: Model	Code 2: PPR	Code 3: Index	Code 4: Shaft	Code 5: Electrical	Code 6: Termination	Code 7: Options
RT6	□□□□	□	□□□	□	□	□
Ordering Information						
RT6 Foot Mount and Close Coupled Housing	0060 0480 0064 0512 0075 0600 0120 0960 0128 1024 0150 1200 0240 1920 0256 2048 0300 2400 4096	L No Index Z With Index Signal Output	A Single Shaft Stainless Steel 5/8" B Dual Shaft Stainless Steel 5/8" S Single Shaft Hi-strength Steel 5/8" D Dual Shaft Hi-strength Steel 5/8"	1 5-26VDC in, 5-26VDC Line Driver out (IC-WE), Single output 2 5-26VDC in, 5-26VDC Line Driver out (IC-WE), Dual output	C Latching Industrial Connector F Latching Industrial Connector without Mating Connector M 10 pin MS Connector P 18" Long Pigtail Cable Q Latching Industrial Connector On 18" Cable R Latching Industrial Connector On 18" Cable without Mating Connector	Blank No Option GB Shaft Grounding Brush (Code 4 must be S)

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

DIMENSIONS inch [mm]

