SERIES RIM 6200

NorthStar[™] brand

Severe Duty Encoder

Key Features

- Foot-Mount or 56-C Face Mount Ideal for "Flower Pot" or Belt Drive Applications
- Extra Heavy Duty Bearings for Long Life
- Stainless Steel and Ductile Cast Iron Construction
- Sensor Modules are Removable On-The-Fly and Provide up to 1200 PPR







SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

Code: Incremental

Pulses per Revolution: 60-1200

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

Quadrature Phasing: $90^{\circ} \pm 22^{\circ}$ Symmetry: $180^{\circ} \pm 54^{\circ}$

Index: 270°, ungated (optional gated to

falling B edge)

ELECTRICAL

Input Voltage Requirement: 5-15 or 15-26 Volts

DC

Current Requirement:

With Electrical Option L: 45 mA typical per sensor

module plus line driver load

With Electrical Option R: 65 mA typical per sensor

module plus line driver load

With Electrical Option 5: 65 mA typical per sensor module plus line driver load

Output Signals:

With Elec Option L: 5-15 V Line Driver, 150mA With Elec Option R: 15 V Line Driver, 150mA With Elec Option 5: 5V Line Driver, 150mA

Frequency Response: 0 - 120kHz Data & Index Electrical Immunity: 2kV ESD, Reverse Polarity,

Short Circuit

Connector: 10 pin industrial duty latching, sealed

NEMA 4 &12, IP65

MECHANICAL

Shaft Speed: 7,000 RPM

Mounting Configuration: 4.5" [115mm] diameter, 56 C motor face or accessory flange to

meet NEMA MG1-4 standards; foot mount with 4 slotted bolt holes

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

Shaft: 0.625" (16mm) diameter with standard key, single or double ended

Shaft Material Options: Hot Rolled Carbon Steel or Stainless steel

Shaft Axial/Radial Loading:

Hot Rolled Steel: 50 lbf axial, 50 lbf radial Stainless Steel: 35 lbf axial, 35 lbf radial

ENVIRONMENTAL

Operating Temperature Range: -40°C to +70°C Storage Temperature Range: -40°C to +120°C Humidity: to 98% RH (non-condensing) Shock (Sensor Module): 1 meter drop test, 30 G's Min

30 G S IVIIN

Vibration: 18 G's @ 5-2000 Hz spectrum

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	
В	7	Yellow	H	
Ā	8	Gray	G	
Z *	9	Orange		
Shield	10	Braid	J	

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

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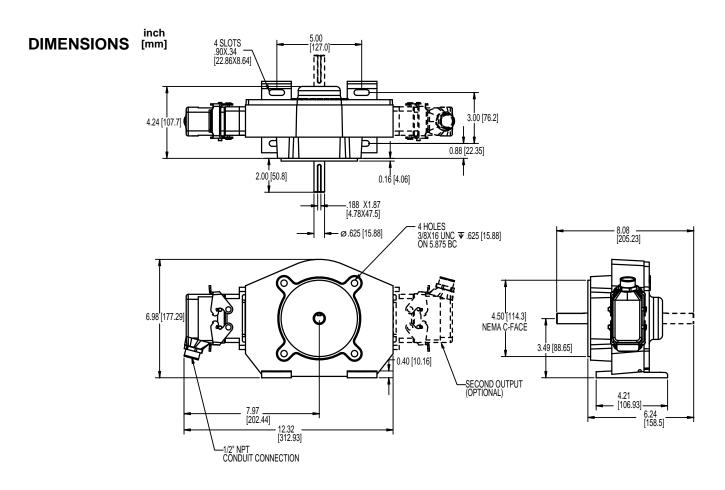
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Ordering Information

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: Output	Code 6: Electrical	Code 7: Termination	
R6							
Ordering Information							
R6 Foot Mount or Close Coupled	0060 0300 0064 0480 0075 0512 0120 0600 0128 0960 0150 1024 0240 1200 0256		A Single Shaft, Stainless Steel B Dual Shaft, Stainless Steel S Single Shaft, Steel D Dual Shaft, Steel	1 Single Output 2 Dual Output, 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 M 10 pin MS Connector P 18" Pigtail	

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





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Technical Support

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