

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

CE
EN 61326



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 $+70^\circ\text{C}$

Storage Temperature Range: -40°C to $+120^\circ\text{C}$

Humidity: to 98% RH (non-condensing)

Shock (Sensor Module): 1 meter drop test, 30 G's Min

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

ELECTRICAL CONNECTIONS

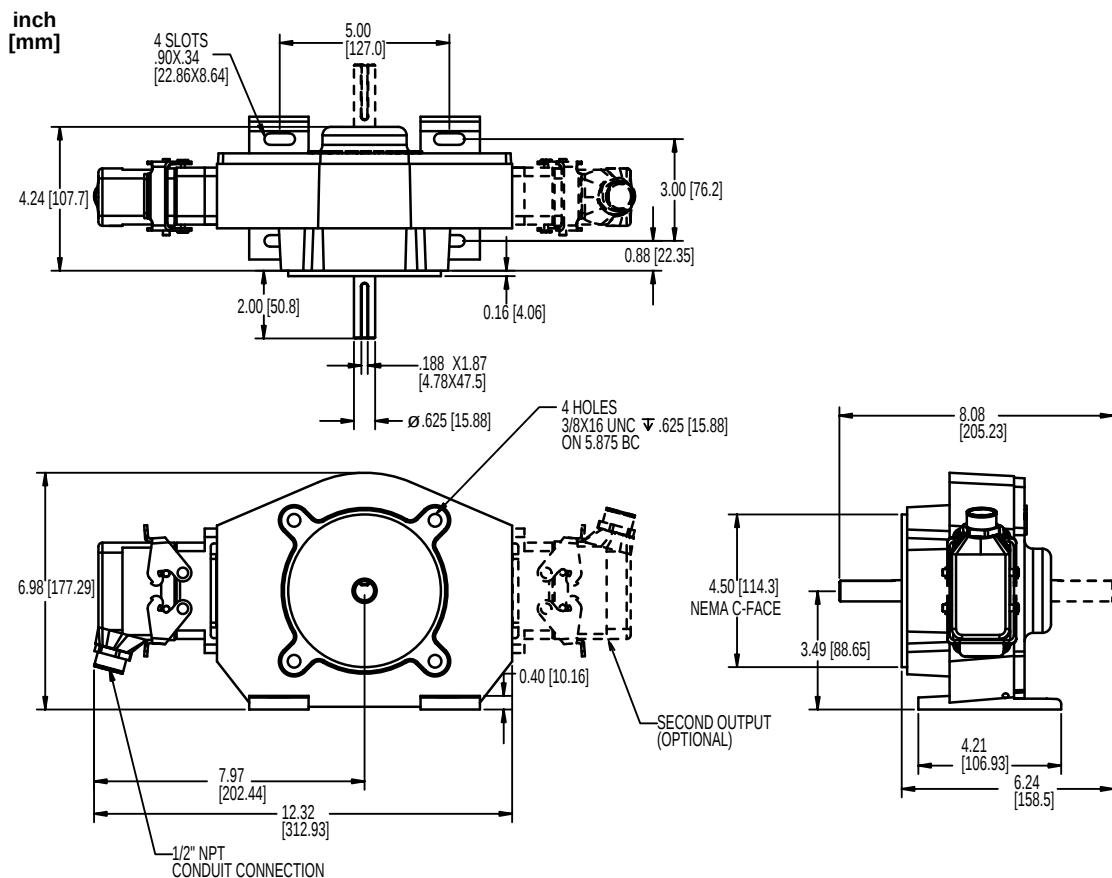
Signal	Connector Pin	Pigtail Cable	MS 3102E18-IT#
Common	1	Black	A
B	2	Green	E
A	3	Blue	D
Z *	4	Violet	C
No Connection	5	—	—
Vcc	6	Red	B
B	7	Yellow	H
A	8	Gray	G
Z *	9	Orange	I
Shield	10	Braid	J

* Index (Z) optional. See Ordering Information

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 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, 0960 1024 or 1200 G Gated Index (Z, $\bar{Z}$) Z Differential Index (Z, $\bar{Z}$)	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, $\bar{A}$, B, $\bar{B}$)	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**DIMENSIONS**

Worldwide Brands: NorthStar™ • Acuro™ • Dynapar™ • Hengstler™ • Harowe™

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