SERIES HS56

NorthStar[™] brand

Hollow Shaft Encoder

Key Features

- Hollowshaft Design with Heavy-Duty **Bearings Ideal for TEFC AC Motor Mounting**
- **Magneto-Resistive Technology**
- Accommodates Shaft Sizes from 5/8" to 1-1/8"
- Stainless Steel and Anodized Aluminum Construction
- Dual Isolated Outputs Available for Redundancy

This product has been discontinued and replaced by the HT55 series. Please visit www.dynapar.com for more information









SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

Code: Incremental, Magnetic

Pulses per Revolution: 64-1024 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 Voltage Requirement: 5-15 or 5-26 Volts DC **Current Requirement:**

With Electrical Option L: 45 mA typical per sensor module plus line driver load

With Electrical Option V or 5: 65 mA typical per sen-

sor module plus line driver load

Output Signals:

4428 Differential Line Driver: 150mA, sink or source IC-WE 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; MS connector or pig-tail

MECHANICAL

Bore Diameter: 5/8" to 1-1/8"

Mounting Configuration: Hollow Shaft mount with

Anti-Rotation Tether Shaft Speed: 3,600 RPM

Shaft Length Required: 2.0" min

Allowable Shaft End-Play: ± 0.150" (tether limit) Allowable Shaft Runout: 0.015" TIR typical (rpm

dependent)

Starting Torque: 7 in-oz

Acceleration Rate: 3,600 rpm/sec max Housing Material: Hard Anodized Aluminum

W/Stainless Steel Hub Weight: 9.3 lbs

ELECTRICAL CONNECTIONS

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

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

ENVIRONMENTAL

Operating Temperature Range: -20°C to

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)

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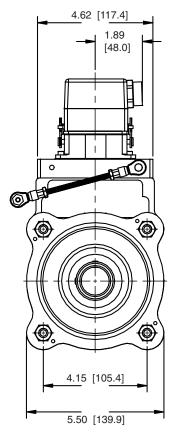
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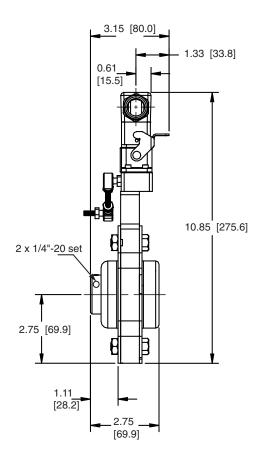
Ordering Information

To order, complete the model number with code numbers from the table below:								
Code 1: Model	Code 2: PPR	Code 3: Index	Code 4: Wheel Bore	Code 5: Termination	Code 6: Electrical			
Η□								
Ordering Information								
H5 Hollow Shaft Mount HD Hollow Shaft Mount Dual Output	0064 0128	L No Index Available when Code 2 is 0512, or 1024 G Gated Index (Z, Z) Z Differential Index (Z, Z)	J04 5/8" J05 7/8" J06 1.00" J07 1-1/8"	C Latching Industrial Connector with 1/2" NPT	L 5-15V in, 5-15V Line Driver (4428) out			
	0256			F Latching Industrial Connector without Mating Connector	 V 5-26V in, 5-26V Line Driver (IC-WE) out 5 5-15V in, 5V Line Driver (4428) out 			
	0512 1024			M 10 pin MS Connector				
			For additional bore sizes, please consult factory.	 P 18" Pigtail Cable Q Latching Industrial Connector on 18" Pigtail Cable R Latching Industrial Connector on 18" Pigtail Cable without Mating Connector 	Differential, bidirectional signals (A, \overline{A} , B, \overline{B})			

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

DIMENSIONS







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