SERIES HS85

NorthStar™ brand

Hollow Shaft Encoder

Key Features

- Hollowshaft Design Mounts Easily to Large Motor Shafts, up to 4.5" in Diameter
- Magneto-Resistive Technology with Removable On-The-Fly Sensor Modules
- Multiple Bore Sizes Available, Including Tapered Shafts
- Stainless Steel and Ductile Cast Iron Construction

This product has been discontinued and replaced by the HT85 series. Pleaes visit www.dynapar.com for more information



ENVIRONMENTAL



Operating Temperature Range: -20°C to +70°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)



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 Voltage Requirement: 5-15 VDC, 15-26 VDC Current Requirement:

With Electrical Option L: 45mA typical per sensor

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

sensor module plus line driver load

Output Signals:

4428 Differential Line Driver: 150mA, sink or source

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: 1-1/8" to 4-1/2", straight or

tapered bore

Mounting Configuration: Hollow Shaft mount

with Anti-Rotation Tether
Shaft Speed: 3,600 RPM
Shaft Length Required: 2.5" min
Acceleration Rate: 3,600 rpm/sec max
Allowable Shaft End-Play: 0.25" (Subject to

RPM Limitation)

Allowable Shaft Runout: 0.010" TIR (Subject to

RPM Limitation)

Housing Material: Cast Iron/Stainless Steel

Weight: 30 lbs

ELECTRICAL CONNECTIONS

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

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

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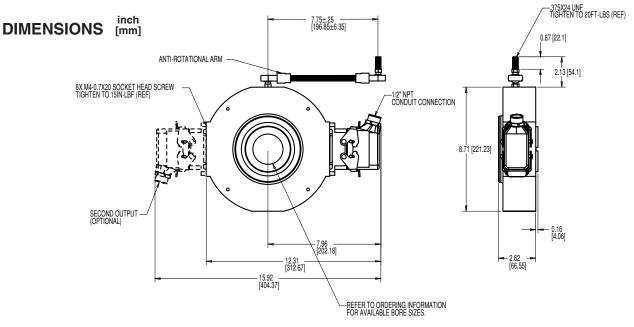
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Ordering Information

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

Codo 1: Model	Codo O: DDD	Codo 2: Indov	Code 4: Wheel Bore	Codo 5: Output	Code 6: Electrical	Code 7: Termination	
Code 1: Model	Code 2: PPR	Code 3: Index	Code 4. Wileel Bole	Code 5: Output	Code 6. Electrical	Code 7. Terrimation	
H8							
Ordering Information							
H8 Hollow Shaft	0060 0300 0064 0480 0075 0512 0120 0600 0128 0960 0150 1024 0240 1200 0256	L No Index Available when Code 2 is 0480, 0512, 0600, 0960, 1024, or 1200 G Gated Index (Z, \(\overline{Z}\)) Z Differential Index (Z, \(\overline{Z}\))	Thru-bores T01	1 Single 2 Dual (Isolated) Differential, bidirectional signals (A, Ā, B. Ē)	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 and Spare Parts





Headquarters: 1675 Delany Road • Gurnee, IL 60031-1282 • USA

Customer Service:

Tel.: +1.800.873.8731 Fax: +1.847.662.4150 custserv@dynapar.com **Technical Support** Tel.: +1.800.234.8731

Fax: +1.847.662.4150 northstar.techsupport@dynapar.com

European Sales Representitive

Hengstler GmbH Uhlandstrasse 49, 78554 Aldingen Germany www.hengstler.com