

SERIES HS60

NorthStar™ brand

Hollowshaft Encoder

Key Features

- Industry-Leading 2-7/8" Hollowshaft Capability
- Multi-Stage Sealing for Wash-Down Applications
- Stainless Steel Shaft for Corrosion Resistance
- Dual-Split Clamping Collar for Positive Shaft Engagement
- Oversized Bearings for Long Service Life
- Magnetic Sensor Technology and Encapsulated Electronics Resist Moisture and Contamination



EN 61326



SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

Code: Incremental

Pulses per Revolution: 64-2048

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: Once per revolution

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 sensor module plus line driver load

Output Signals:

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

With Elec Option V: 5-26 V Line Driver, 100mA

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; MS connector or pig-tail

MECHANICAL

Mating Shaft Sizes: 1-1/8" to 2-7/8"

Shaft Speed: Labyrinth Shaft Seal: 3,600 RPM;

V-Ring Shaft Seal: 1,000 RPM

Mounting Configuration: Hollow Shaft mount with Anti-Rotation Tether

Housing Material: Hard Anodized Aluminum W/Stainless Steel Hub

Acceleration Rate: 3,600 rpm/sec max

Shaft Length Required: 2.36" min

Allowable Shaft End-Play: $\pm 0.150"$ (tether limit)

Allowable Shaft Runout: 0.015" TIR typical (rpm dependent)

ENVIRONMENTAL

Operating Temperature Range: -20°C to +80°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

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

ELECTRICAL CONNECTIONS

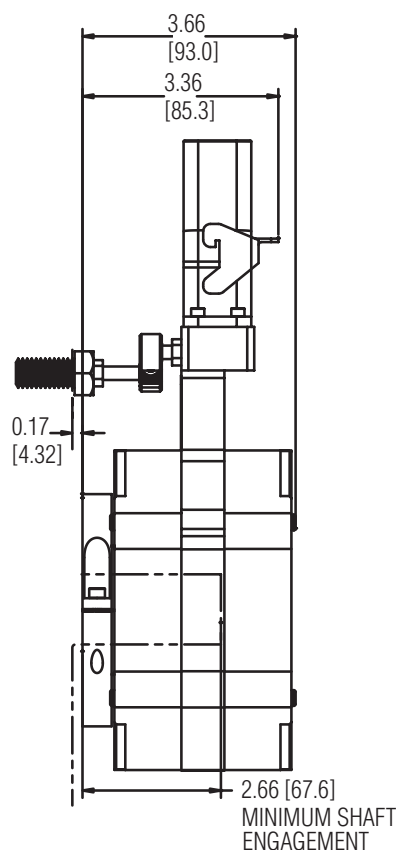
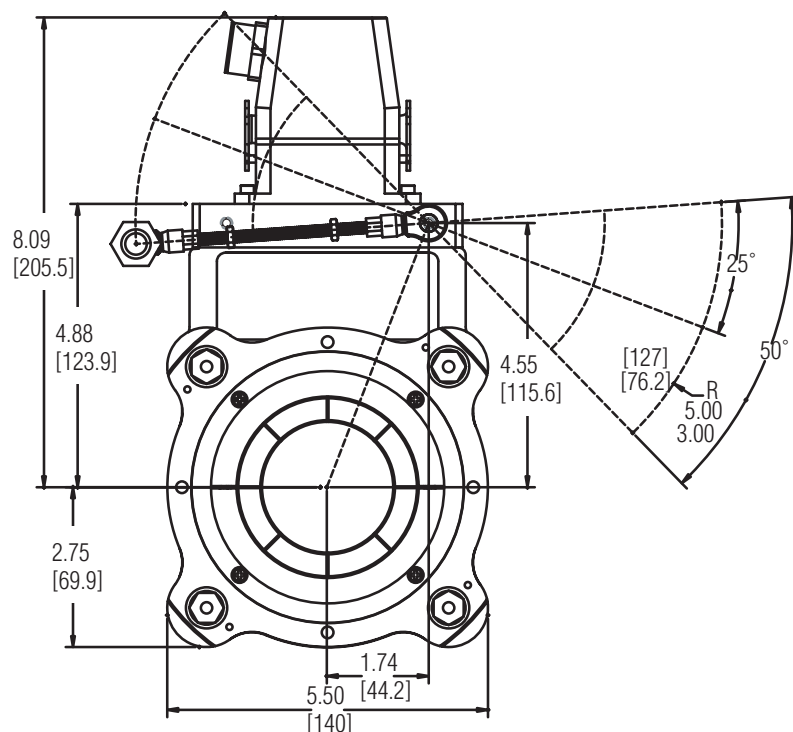
Signal	Connector Pin	Pigtail Cable	MS 3102E18-IT#
Common	1	Black	F
B	2	Green	B
A	3	Blue	A
Z *	4	Violet	C
No Connection	5	—	E
Vcc +	6	Red	D
B	7	Yellow	I
\bar{A}	8	Gray	H
\bar{Z} *	9	Orange	J
Shield	10	Braid	G

* 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: Wheel Bore	Code 5: Termination	Code 6: Electrical	Code 7: Seal
6			T			
Ordering Information						
H6 HS60 Hollowshaft, single output	0064 0128 0256 0512 1024	L No index available when code 2 is 0512, 1024, or 2048	T01 1-1/8" T02 1-3/8" T03 1-5/8" T04 1-7/8" T05 2.00" T06 2-1/8" T07 2-1/4" T08 2-3/8" T09 2-1/2" T10 2-7/8" <i>Metric bore sizes available. Consult factory for details.</i>	C Latching Industrial Connector with 1/2" NPT M 10 pin MS Connector P 18" pigtail cable Q Latching industrial connector on 18" pigtail cable	L 5-15VDC in, 5-15V Line driver (4428) out V 5-26VDC in, 5-26V Line driver (IC-WE) out 5 5-15VDC in, 5V Line driver (4428) out Differential, bidirectional signals	L Labyrinth seal V V-ring seal
D6 Dual output	available when code 1 is H6 2048	G With Gated, differential index Z With differential index				

Note: See ACCESSORIES Section For Connectors, Spare Parts and Pulse Wheels**DIMENSIONS** inch
[mm]Worldwide Brands: **NorthStar™** • **Acu™** • **Dynapar™** • **Hengstler™** • **Harowe™****DYNAPAR**
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