SERIES HSD44

Extreme Heavy Duty Encoder

Key Features

- O-Ring Housing with Pilot Seals Against Motor for the Ultimate in Protection
- Isolated Coupling Compensates for Motor Shaft Runout and Endplay
- Perfect for Off-Highway Vehicle Applications with High Shock and Vibration
- Unbreakable Code Disc
- 400G Shock and 20G Vibration Independently Validated





SPECIFICATIONS STANDARD OPERATING CHARACTERISTICS MECHANICAL **ENVIRONMENTAL** Code: Incremental, Optical Mechanical Interface: Electrically isolated Operating Temperature: -30 to 100°C Resolution: 1024 & 2048 PPR (pulses/revolution), Storage temperature: -40 to 100°C stainless steel shaft flex coupling Format: Two channel quadrature (AB) with Coupling: 16mm, flexible Shock: 400g, 6mSec Mating Shaft Length: 0.47" to 0.625" (11.9mm Vibration: 5-3000 Hz, 20g Index (Z), and complementary outputs Phase Sense: A leads B for CCW shaft rotation Humidity: Up to 98% (non-condensing) to 15.9mm) viewing the shaft clamp end of the encoder Shaft Speed: 6000 RPM, max. Enclosure Rating: NEMA 6 / IP67 Quadrature Phasing: 90° ± 15° electrical Bearings: 6107 Index: 150° to 300° A leads B, CCW (From Housing Material: Aluminum Allov Clamp End) Disc Material: PET Symmetry: 180° ± 18° electrical Weight: 4 lbs. Waveforms: Squarewave with rise and fall times less than 1 microsecond into a load capacitance of 1000 pf ELECTRICAL **ELECTRICAL CONNECTIONS** DATA AND INDEX Input Power: 5-30VDC, 80 mA max., not includ-Not all complements shown Function ing output loads. Pin Wire Color Ā shown for reference Outputs: 7272 Differential Line Driver: 40 mA, Sig. A А BRN sink or source (180° ELEC)-> Sig. B В ORG <---(90° ELEC) Frequency Response: 125 kHz (data & index) Sig. Z Noise Immunity: Tested to EN61326-1 C YEL Data A Electrical Immunity: Reverse polarity and short Power +V D RED circuit protected Com. F BLK Termination: 18" pigtail or 18" pigtail with MS Case G Data B GRN Connector. See Ordering Information Mating Connector: N/C E _ 10 pin MS, style MS3106A-18-1S (MCN-N6) Index Sig. A н **BRN/WHT** Index Width: 150° to 300° 10 Pin, NEMA4 Style (MCN-N6N4) Sig. B Т ORG/WHT A leads B, CCW (From Clamp End) Sig. Z J YEL/WHT

NorthStar[™] brand

INCREMENTAL ENCODERS

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Ordering Information

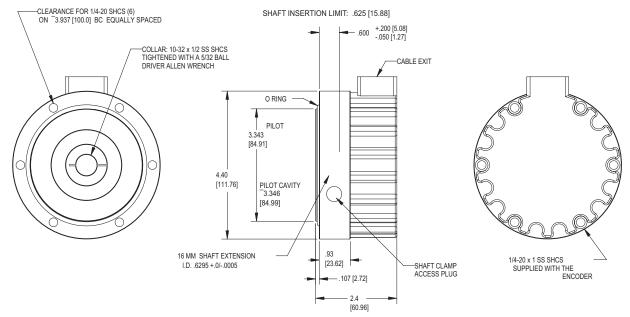
To order, complete the model number with code numbers from the table below:

Code 1: Model	Code 2: PPR	Code 3: Bore	Code 4: Output Format	Code 5: Termination Code 6: Options		Code 7: Special Option
HSD44						
Ordering Information						
HSD44 Heavy Duty Hub Shaft Encoder	1024 2048	A 16mm	3 Differential ABZ, 5-30 in, 5-30 out (7272)	A 18" Cable K 1.5 ft (18") cable w/ in line 10 pin connector	 0 No Options 1 Slotted Tether 2 Single Point 4.5" C-face Tether 3 Single Point 8.5" C-face Tether 	Blank None 01 Extended Pilot (.156")

Accessories

HSD44ADAPTER45 4-1/2" NEMA Motor Adapter Plate

DIMENSIONS (in. [mm])



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



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