SERIES H42

Dynapar[™] brand

Shafted Encoder

Key Features

- Simplified Economical Design
- Unbreakable Code Disc
- Rugged Cast Aluminum Housing







SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

Code: Incremental

Resolution: 1 to 600 PPR (pulses/revolution) Accuracy: (Worst case any edge to any other edge) ± 7.5 arc-min.

Format: Two channel quadrature (AB) with complementary outputs

Phase Sense: A leads B for CW shaft rotation as viewed from the shaft end of the encoder; see Ordering Information

Quadrature Phasing: 90° ± 20° electrical

Symmetry: $180^{\circ} \pm 18^{\circ}$ electrical

Waveforms: Squarewave with rise and fall times less than 1 microsecond into a load capacitance of 1000 pf

ELECTRICAL

Input Power:

4.5 min. to 26 VDC max. at 90 mA max., not including output loads

Outputs:

7272 Push-Pull and Differential Line Driver: 40 mA sink or source

Frequency Response: 100 kHz min.

Electrical Protection: Overvoltage, reverse voltage and output short circuit protected

Noise Immunity: Tested to EN61326 (Industrial) for Electro Static Discharge, Radio Frequency Interference, Electrical Fast Transients,

Conducted and Magnetic

Interference

ELECTRICAL CONNECTIONS

With Line Driver Output		
Pin	Function (If Used)	#14004310010* Cable Accessory Color Code
Α	Signal A	RED
В	Signal B	BLUE
С	Signal Ā	YELLOW
D	Power Source	WHITE
Е	Signal B	GREEN
F	Common	BLACK
G	Case	SHIELD

^{*}This is a mating connector/cable assembly described in the Encoder Accessories section of this catalog. Color-coding information is provided here for reference.

CONNECTIONS

Connector Termination: 7 pin, style MS3102E-16S-1P Mating Connector: 7 pin, style MS3106A-16S-1S (MCN-N5);

MECHANICAL

Shaft Loading: (at 0.25" from encoder face) 80 lbs. radial, 80 lbs. axial $\,$

Shaft Speed: 7200 RPM max. Shaft Runout: 0.001" max. TIR Moment of Inertia: 3.0 x 10⁻⁴ oz-in-sec²

Weight: 13 oz.

ENVIRONMENTAL

Operating Temperature: 0 to +70 °C Storage Temperature: -40 to +90 °C Shock: 50 G's for 11 milliseconds duration Vibration: 5 to 2000 Hz at 20 G's Humidity: to 98% without condensation Enclosure Rating: NEMA12/IP54 (dirt tight, splashproof)



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Ordering Information

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

Code 1: Model	Code 2: Pulses/Rev
H42	
H42 Size 25, Economical	0001 0012 0060 0100 0120 0500

10 foot Cable Assembly with MS Connector

1400635-0010 7 Pin MS, Cable Assy. For Use with Differential Line Driver Outputs

DIMENSIONS

