

Encoders

Dynapar[™] brand

Series 60 Rotopulser[©]

- Heavy-duty bearings with 1/2" diameter shaft
- LED optical light source
- · Unbreakable disk
- Wide selection of resolutions available up to 2500 PPR
- · Servo ring and face mount options

APPLICATION/INDUSTRY

The Series 60 is a rugged, incremental, optical encoder for speed, position, and motion applications. The standard mechanical size 35 package is designed for high resolution applications and rugged industrial environments.

- Length measurements
- Motor drive speed feedback
- Cut-to-length (textile, paper, wood, metal, rubber, plastics, etc.)
- Back-gage positioning
- PLC's and electronic counters

DESCRIPTION

Dual shafts and measuring wheels are recommended for better parallel tracking in measuring applications.

Series 60 Rotopulser encoders are available with line driver outputs for applications with longer cabling requirements (hundreds of feet) and/or higher signal noise immunity.

FEATURES AND BENEFITS

Mechanical & Environmental Features

- Heavy-duty 1/2" single and dual shafts available
- Rugged mylar or photoplast discs (no glass discs)
- Up to 3600 RPM
- 0-54°C operating range
- Precision machined die-cast aluminum housing with optional shaft seals
- Extra wide bearing span with precision ball bearings front and rear

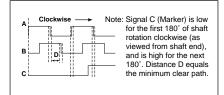
Electrical Features

- Up to 2500 pulses/rev.
- LED light source for long-term reliability and trouble-free operation
- Built-in low impedence amplifier for driving long lines
- Switches from line-to-line for current sourcing and sinking
- Up to 50 kHz electronic operating speeds

SPECIFICATIONS

ELECTRICAL

Power Requirements: 5 to 15 VDC max. 115 mA max. plus load requirements Frequency Response: 50 kHz Minimum Free Path: Between any A and B transition, will not be less than 12.5% of one full electrical cycle. This includes effects of jitter, phase and symmetry shifts.



Differential Output: 7272, 40 mA sink/source;

CONNECTIONS

Mating Connector: Style MS3106A-18-1S; Dynapar Part No. MCN-N6 Single-Ended Output: 7272, 40 mA sink/source; Mating Connector: Style MS3106A-14S-6S; Dynapar Part No. MCN-N4



Weight: 26 oz. Speed Range: Up to 3600 RPM Shaft Loading: Radial: 15 lbs. overhung; Axial: 5 lbs. Inertia: 170 gm-cm² Starting Torque: 0.45 oz-in (0.30 oz-in for 1/4 in. dia. shaft) Running Torque: 0.35 oz-in (0.15 oz-in for 1/4 in.

dia. shaft) Shaft Diameters: 1/4", 1/2" (-0.0003"/-0.0007")

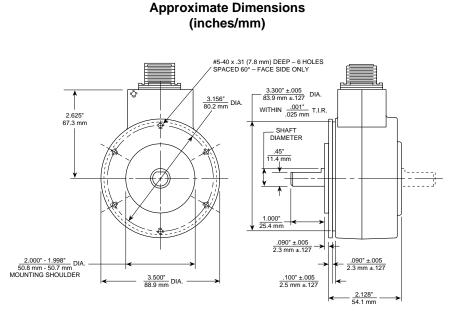
ENVIRONMENTAL

Enclosure Rating: NEMA 12 / IP54; Temperature Range: 0-54°C





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Electrical Connections

Single-Ended Output (6-pin)							
Function (If Used)	MS Pin No.	Dyn. #14002090010* Cable Accessory Color Code					
Signal A	В	RED					
Signal B	D	BLUE					
Signal C (Marker)	А	GREEN					
+V	Е	WHITE					
Common	С	BLACK					
Shield	F	SHIELD					

Differential Line Driver (10-pin)						
Function (If Used)	MS Pin No.	Dyn. #14004190010* Cable Accessory Color Code				
Signal A	В	RED				
Signal A	G	BLACK				
Signal B	D	BLUE				
Signal B	Н	BLACK				
Signal C (Marker)	А	GREEN				
Signal C	I	BLACK				
+V	E	WHITE				
Common	С	BLACK				
Shield	F	SHIELD				
Not Used	J					

*This is a mating connector/cable assembly described in the Encoder Accessories section of this catalog. Colorcoding information is provided here for reference.

Ordering Information

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

Code 1: Model	Code 2: Housing	Code 3: Shaft	Code 4: Output	Code 5: Voltage	Code 6: Pulses/Rev	Code 7: Wiring	Code 8: Misc
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 2 Bidirectional, Heavy Duty 3 Bidirectional with Marker, Heavy Duty 	 A Standard Housing for Single Shaft C Standard Housing for Double Shaft H Hand-Held Housing with Double Shaft and two 12" Circumfer- ence Measuring Wheels 	 A 1/2" Dia, 1.0" Len with Flat B 1/2" Dia, 1.0" Len without Flat C 1/2" Dia, 1.5" Len with Flat D 1/2" Dia, 1.5" Len without Flat Available when Code 2 = A or C: G 1/4" Dia, 1.0" Len without Flat H 1/4" Dia, 1.0" Len with Flat 	E Single Ended Available when Code 2 = A or C: D Differen- tial	F 5 to 15 VDC	0001 0150 0530 0002 0180 0550 0004 0192 0600 0005 0200 0625 0006 0203 0720 0010 0240 0750 0012 0250 0800 0015 0256 0805 0018 0300 0833 0020 0306 0900 0025 0315 1000 0040 0360 1024 0045 0375 1200 0050 0382 1270 0060 0384 1500 0064 0390 1800 0090 0402 2160 0100 0430 2250 0120 0450 2400 0125 0500 2500 0120 0450 2400 0125 0500 2500 0127 0508 0128 0512 5512 5512 <td>A MS Connec- tor</td> <td>0 No Shaft Seals Available when Code 3 = A, B, C, or D: B Shaft Seals</td>	A MS Connec- tor	0 No Shaft Seals Available when Code 3 = A, B, C, or D: B Shaft Seals

I NDUSTRIAL

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