

SERIES 60



Heavy Duty Rotopulser[®]

Key Features

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

HD
Heavy Duty



SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

Code: Incremental, Optical
Resolution: 1 to 2500 PPR (pulses/revolution) See ordering information
Format: Two channel quadrature (AB) with optional index
Phase Sense: A leads B for CW rotation of the primary shaft
Minimum Free Path: Between any A and B transition (Distance D) will not be less than 12.5% of one full electrical cycle. This includes effects of jitter, phase and symmetry shifts.

ELECTRICAL

Power Requirements: 5 to 15 VDC max. 115 mA max. plus load requirements
Frequency Response: 50 kHz
Output:
 7272 Push-Pull: 40mA, sink or source
 7272 Differential Line Driver: 40 mA, sink or source
Mating Connector: 10 Pin: Style MS3106A-18-1S,

ELECTRICAL CONNECTIONS

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

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

Dynapar Part No. MCN-N6

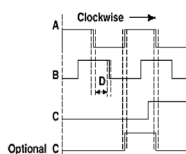
MECHANICAL

Shaft Sizes: 1/2"
Speed Range: Up to 3600 RPM
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)
Housing & Cover Material: Aluminum
Shaft Material: Stainless Steel
Disc Material: Mylar
Weight: 26 oz.

ENVIRONMENTAL

Operating Temperature: 0-54°C
Humidity: Up to 98% (non-condensing)
Enclosure Rating: NEMA 12 / IP54;

Note: Signal C (Marker) is low for the first 180° of shaft rotation clockwise (as viewed from shaft end), and is high for the next 180°.



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

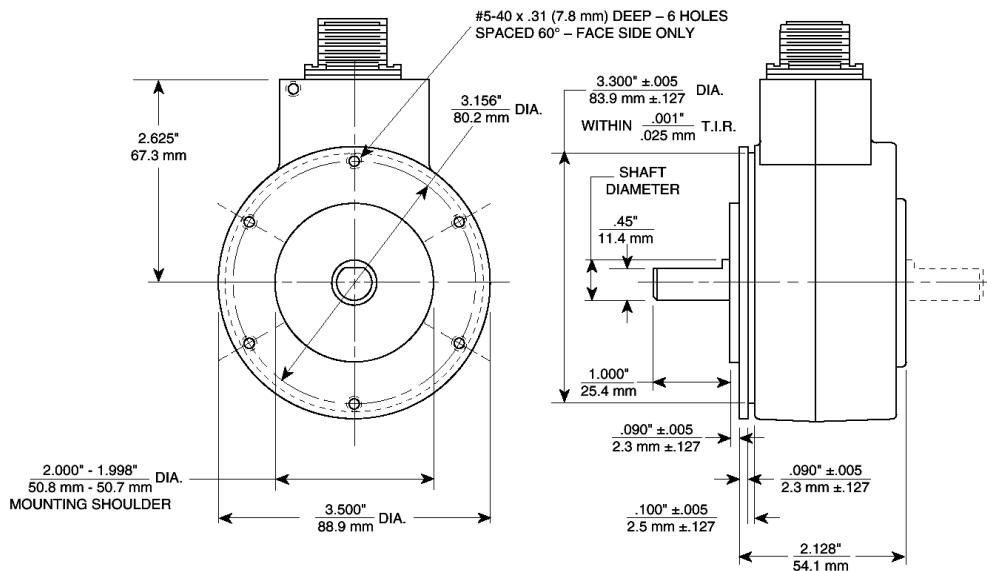
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Ordering Information

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 |
|--|--|--|--|----------------------|---|-----------------------|---|
| 6 <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | F | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | A | <input type="checkbox"/> |
| 2 Bidirectional, Heavy Duty 3 Bidirectional with Marker, Heavy Duty | A Standard Housing for Single Shaft C Standard Housing for Double Shaft | 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 | E Single Ended D Differential | 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 0400 2000 0096 0402 2160 0100 0430 2250 0120 0450 2400 0125 0500 2500 0127 0508 0128 0512 | A MS Connector | D No Shaft Seals B Shaft Seals |

DIMENSIONS inches [mm]



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