

INCREMENTAL ENCODERS

SERIES RR25

Dynapar™ brand

Heavy Duty Rate Indicator

Key Features

- **Ball Bearing-less, Hub-Shaft Design with Clamping Collar and Tether**
- **Encapsulated Electronics Ideal For Wet and Dirty Conditions**
- **Corrosion Resistant Construction Resists NPK, Diesel Fuel, Gasoline Acetone and Toluene**
- **Magnetic Sensor Uses Proven Hall-IC Technology**

HD
Heavy DutyCE
EN 61326-1

SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

Code: Incremental, Magnetic
Pulses per Revolution: 180, 360 or 512 PPR
Format: Single Channel
Symmetry: 180° ± 90°

ELECTRICAL

Input Voltage: 5-28VDC (up to 32VDC overvoltage protection)
Current Draw: 50mA Maximum (not including output load)
Output:
 HD7 Push-Pull Differential Line Driver: 100mA sink or source
 7273 Open Collector: 40mA
Frequency Response: 5kHz Maximum
Noise Immunity: Tested to EN61326-1
Electrical Immunity: Reverse polarity and short circuit protected
Termination: Cable, Radial Exit with Connector

MECHANICAL

Hub Shaft Bore Diameter: 1" or 1-1/8"
Hub Shaft Bore Tolerance: Nominal +.0005"/+.0015"
Starting Torque: 7 oz-in Maximum
Shaft Fixing: Stainless Steel Split Clamp
Shaft Speed: 500 RPM Maximum
Mating Shaft Length: 1" Minimum
Mating Shaft Runout: .005" TIR Maximum
Mating Shaft Endplay: ±.025" Maximum
Housing Material: PBT Thermoplastic Resin
Hub Shaft Material: Stainless Steel
Weight: 1.6 lbs

ENVIRONMENTAL

Operating Temperature: -20°C to +85°C
Storage Temperature: -40°C to +85°C
Vibration: 10G, 5-2000 Hz
Shock: 50G, 6ms duration
Humidity: Up to 98% (non-condensing)
Enclosure Rating (electronic components): IP66/IP67

ELECTRICAL CONNECTIONS

Encoder Function	Pin	Wire Color
VCC	A	RED
COM	B	BLK
SIC	C	WHT

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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: Hub Bore	Code 4: Output	Code 5: Termination
RR25	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ordering Information				
RR25 2.5" Rate Indicator	0180 0360 0512	H 1" J 1-1/8" K 3/8" x 0.9"L male shaft extension	0 HD7 type Push-Pull 1 7273 Open Collector	A 18" Radial Cable w/ 3-pin Delphi connector C 36" Radial Cable w/ 3-pin Delphi connector D 60" Radial Cable w/ 3-pin Delphi connector

DIMENSIONS inch [mm]
TOLERANCES: ± .02 [0,5]

