**DR735**

Direct replacement encoder for Heidenhain* ROD320

*Heidenhain is a trademark of Heidenhain Corporation. Siemens and Simodrive are trademarks of Siemens AG

Designed as a drop-in replacement for the Heidenhain* ROD320 encoder, EPC's **DR735** meets or exceeds all OEM specifications. The DR735 is designed to provide precision feedback control for Siemens* 1FT Series Simodrive* motors. It features an improved “Stay in Place” tapered shaft, custom flex mount, various different resolutions, 9” of cable, and a 17 pin connector with the correct Heidenhain* pinout. Replacing both the older ROD320.002 and the ROD 320.005 has never been faster, easier, or more economical thanks to the DR735.

**Features:**
- Low profile (1.19”) encoder body
- 2 piece construction – “Stay in Place” shaft for easy removal of encoder
- 1000, 1250, 2000, 2500, 3000 and 5000 CPR available*
- Line Driver output
- True flex arm mounting system makes installation easy and allows for insulation and isolation from vibration, extending the life of the encoder
- 17-pin connector at the end of 9” of cable
- Advanced Opto-ASIC technology for superior noise immunity
- Withstands temperatures up to 100° C

**ORDER NUMBER | CPR**
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DR735-04 | 1000
DR735-06 | 1250
DR735-03 | 2000
DR735-01 | 2500
DR735-05 | 3000
DR735-02 | 5000

*Other CPRs may be available, contact Customer Service.

Contact Customer Service for pricing. Discounts available for volume orders.

**The Accu-Coder® Advantage**
- US-based since 1969
- Industry-best 3-year warranty
- Exceptional customer service
- Fast lead times – contact us for lead times and expedite options

Encoders shown mounted on Siemens* 1FT Series Simodrive

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MODEL DR735 SPECIFICATIONS

Electrical
- Input Voltage: 4.75 to 20 VDC (16 VDC Max at 100° C)
- Input Current: 100 mA max with no output load
- Output Format: Incremental – Two square waves in quadrature with channel A leading B for clockwise shaft rotation, as viewed from the mounting face. See Waveform Diagram below.
- Output Types: Line Driver – 20 mA max per channel (Meets RS 422 at 5 VDC supply)
- Freq. Response: 200 kHz standard
- Noise Immunity: Tested to BS EN61000-6-2; BS EN55081-2; BS EN61000-4-2; BS EN61000-4-3; BS EN61000-4-6; BS EN55011
- Quadrature: 67.5° electrical or better is typical, 54°
- Edge Separation: Electrical minimum at temperatures > 99° C
- Accuracy: Within 0.01° mechanical from one cycle to any other cycle, or 0.6 arc minutes

Mechanical
- Max Shaft Speed: 7500 RPM
- User Shaft Tolerances:
  - Radial Runout: 0.007” max
  - Axial Endplay: ±0.030” max
  - Starting Torque: 0.50 oz-in
  - Moment of Inertia: 3.9 X 10⁻⁴ oz-in-sec²
  - Max Acceleration: 1 X 10⁶ rad/sec²
- Electrical Conn: 9” cable (foil and braid shield, 24 AWG conductors) with 17-pin connector
- Housing: All Metal Aluminum and Zinc Alloy
- Mounting: Flex Arm Mount standard
- Weight: 3.5 oz typical

Environmental
- Operating Temp: 0° to 100° C
- Storage Temp: -40° to 100° C
- Humidity: 98% RH non-condensing
- Vibration: 10 g @ 58 to 500 Hz
- Shock: 50 g @ 11 ms duration
- Sealing: IP64

Don't see the exact encoder you need?
Call (800) 366-5412 and our Technical Sales Department will cross-reference your encoder to the correct EPC model.