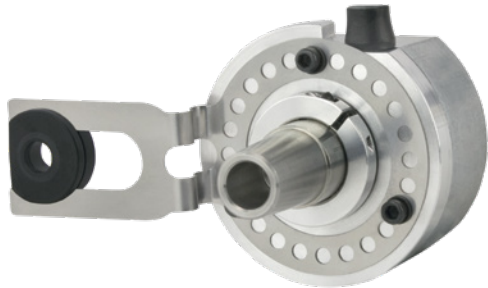


# DR735

Direct Replacement Encoder for Heidenhain\* ROD320



Designed as a drop-in replacement for the Heidenhain\* ROD320 encoder, our DR735 meets or exceeds all OEM specifications, and is available with EPC's competitive pricing, short lead-time, and 3 year warranty. 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 – Unique "Stay in Place" shaft allows 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

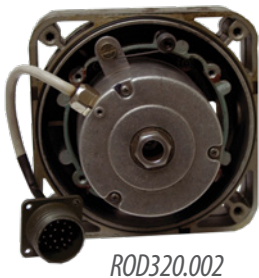
CPR	Order Number
1000	DR735-04
1250	DR735-06
2000	DR735-03
2500	DR735-01
3000	DR735-05
5000	DR735-02

Contact Customer Service for other disk resolutions.

Typical Price: for Comparable Encoder: \$975 - \$1540

**DR735 Price: \$640**

Additional discounts available for volume orders.



ROD320.002



ROD320.005

Encoders shown mounted on Siemens\* 1FT Series Simodrive



DR735

## The Accu-Coder™ Advantage

- ✓ Get this encoder FAST – you'll get your encoders in days, not weeks.
- ✓ Huge savings in price comparison – the DR735 is your economical solution
- ✓ The accuracy, reliability, and quality that only come from an Accu-Coder™
- ✓ Industry Best 3-year warranty!

**ACCU-CODER™**  
by Encoder Products Company

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

# DR735

Direct Replacement Encoder for Heidenhain ROD320



## Model DR735 Specifications

### Electrical

Input Voltage..... 4.75 to 28 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 EN50081-2; 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

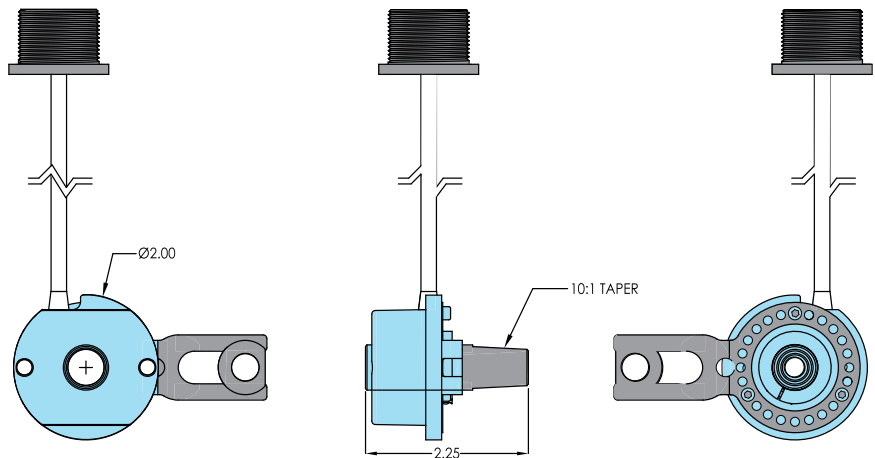
### Mechanical

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<sup>-4</sup> oz-in-sec<sup>2</sup>  
 Max Acceleration ..... 1 X 10<sup>5</sup> rad/sec<sup>2</sup>  
 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

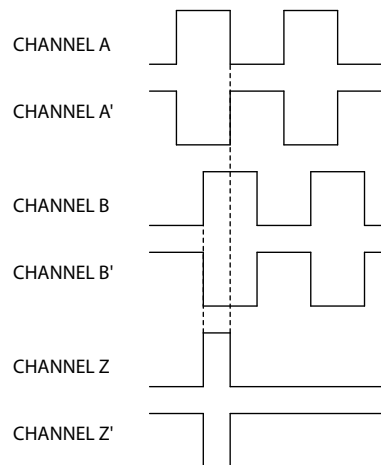
### Environmental

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

## DR735 Dimensions



## DR735 Waveform Diagram



## DR735 Wiring Table

PIN	FUNCTION
A	CHANNEL A
B	CHANNEL B
C, J, K	+VDC
D	CHANNEL A'
E	CHANNEL B'
F	CHANNEL Z
G	CHANNEL Z'
H	SHIELD
N, P, T	COMMON
R, S	BRIDGE
L	N/C