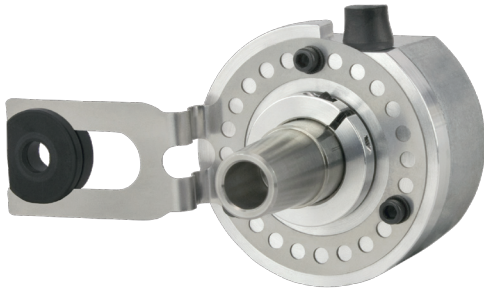


DR735

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:

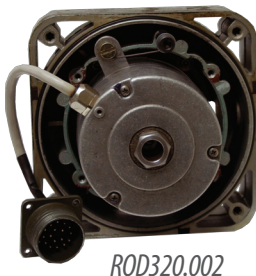
- Low profile (1.19") encoder body
- 2 piece construction – Unique "Stay in Place" shaft allows for easy removal of encoder
- 1000, 1250, 2000, 2500, 3000 and 5000 CPR available
- Line Driver output
- True flex arm mounting system makes installation easy – and allows for insulation and isolation from 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

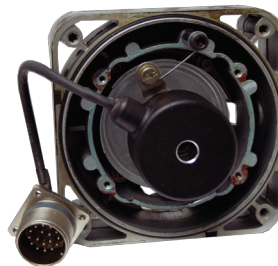
Typical Price: for Comparable Encoder: \$975 - \$1540

Contact Customer Service for other disk resolutions.

DR735 Price: \$610 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

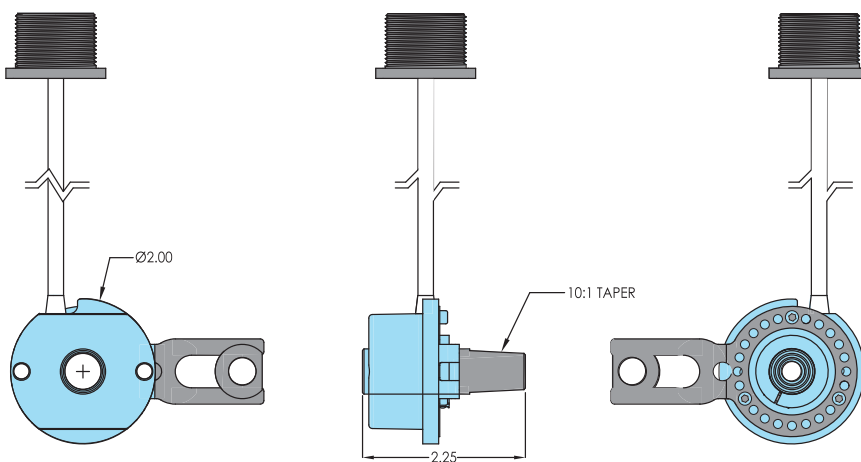
Mechanical

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 10⁻⁴ oz-in-sec²
Max Acceleration 1 X 10⁵ 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

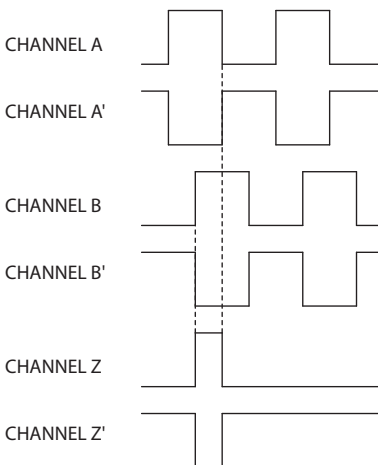
Environmental

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

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