DR735

Direct replacement encoder for Heidenhain* ROD320

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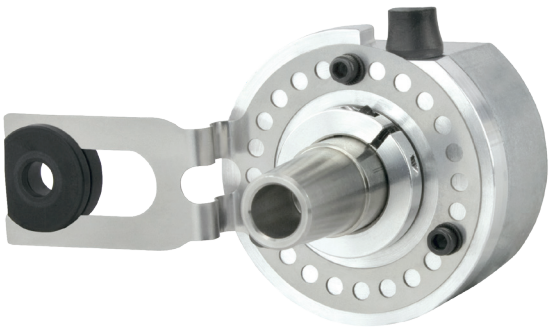
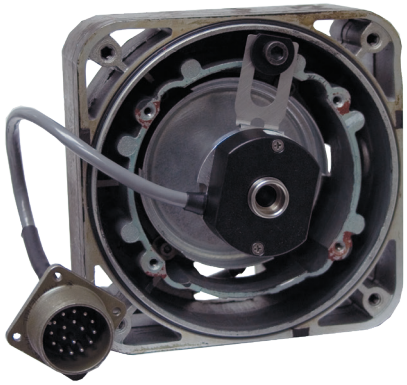
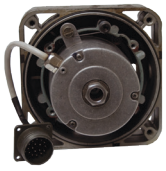




EPC Model DR735



ROD320.002

ROD320.005

Encoders shown mounted on Siemens 1FT Series Simodrive*

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
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*

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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

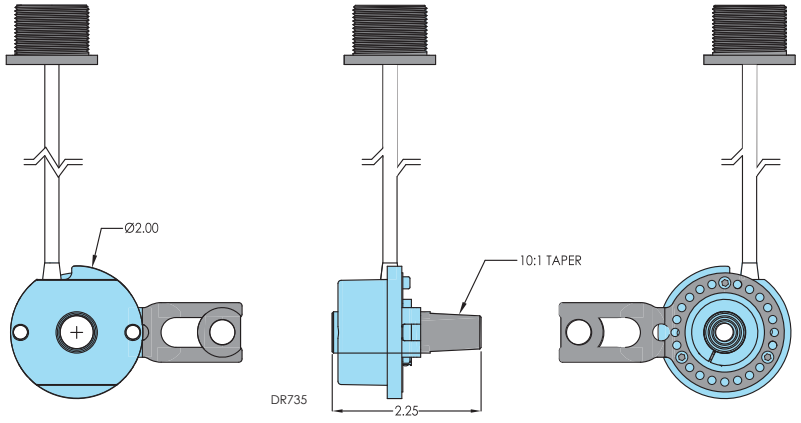
Mechanical

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-sec^2
Max Acceleration	1 X 10^5 rad/sec^2
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

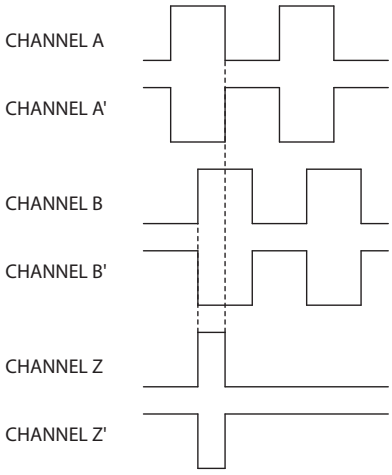
Environmental

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

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.*