Direct Replacement Encoder For Heidenhain* ROD320 Heidenhain is a trademark of Heidenhain Corporation. Siemens and Simodrive are trademarks of Siemens AG





Features:

- Low profile (30.2mm / 1.19") encoder body
- 2 piece construction "Stay in Place" shaft for easy removal of encoder
- 1000, 1250, 2000, 2500, 3000 and 5000 PPR 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

Designed as a drop-in replacement for the Heidenhain* ROD320 encoder, BEPC'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.



EPC Model DR735



ROD320.002

ROD320.005

Encoders shown mounted on Siemens* 1FT Series Simodrive



ORDER NUMBER PPR:-

DR735-04 1000 DR735-06 1250

DR735-03 2000

DR735-01 2500 DR735-05 3000

DR735-02 5000

*Other PPRs may be available, contact Customer Service.

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

The Accu-Coder[™] Advantage

- Get this encoder FAST!
- Huge savings in price!
- The accuracy, reliability, and quality that only come from an Accu-Coder™
- Industry Best 3-year warranty!

Don't see the exact encoder you need?

Call +44(0)1978 262100 and our Technical Sales Department will cross-reference your encoder to the correct BEPC model.

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DR735 Specifications

Electrical

.4.75 to 28 VDC (16 VDC Max at 100° Input Voltage C)

Input Current100 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 sup-

ply)

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

Symmetry180° (±18°) electrical Quad. Phasing......90° (±22.5°) electrical

Min. Edge Sep......67.5° electrical

.....Within 0.01° mechanical from one Accuracy..... cycle to any other cycle, or 0.6 arc

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 Conn9" cable (foil and braid shield, 24

AWG

conductors) with 17-pin connector

.....Black non-corrosive finish Mounting.....Flex Arm Mount standard

.....3.5 oz typical Weight

Environmental

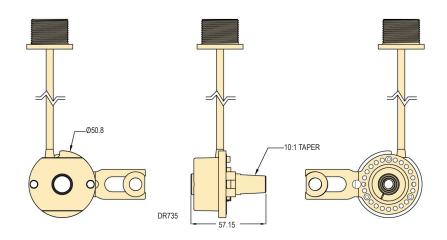
Operating Temp.....0° to 100°C Storage Temp-40° to +100° C

Humidity98% RH non-condensing Vibration10 g @ 58 to 500 Hz

Shock50 g @ 11 ms duration

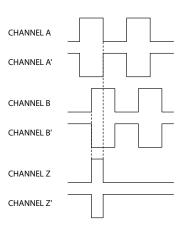
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DR735 Dimensions



All dimensions are in mm with a tolerance of ±0.127mm or ±0.254 unless otherwise specified

Waveform Diagram



Wiring Table

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