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, 2000, 2500 or 5000 CPR, 9" of cable, and a 17 pin connector with the correct Heidenhain pinout. Other disc resolutions are available.

Replacing both the older ROD320.002 and the ROD 320.005 has never been faster, easier or more economical thanks to the DR735!

CPR Order Number2000 DR735-032500 DR735-015000 DR735-02

Contact Customer Service for other disk resolutions.







Encoders shown mounted on Siemens 1FT Series Simodrive

The Accu-Coder[™] DR735 Features:

- Low profile (1.19") encoder body
- 2 piece construction; Unique "Stay in Place" shaft allows for easy removal of encoder
- 2000, 2500 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

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- · 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!







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Model DR735 Specifications

Electrical

Input Voltage4.75 to 28 VDC (16 VDC Max at 100° C)
Input Current100 mA max with no output load
Output FormatIncremental- Two square waves in
quadrature with channel A leading B for

clockwise shaft rotation, as viewed from the mounting face.

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

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 Torque0.50 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

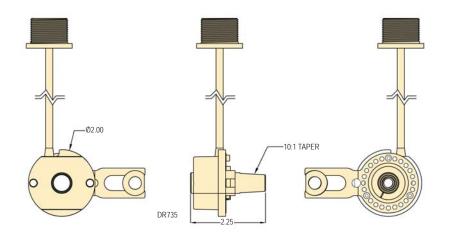
conductors) with 17-pin connector

HousingBlack non-corrosive finish Mounting....Flex Arm Mount standard Weight3.5 oz typical

Environmental

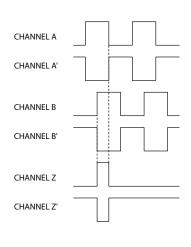
Operating Temp.....0° to 100°C
Storage Temp......40° to +100° C
Humidity98% RH non-condensing
Vibration10 g @ 58 to 500 Hz
Shock50 g @ 11 ms duration
SealingIP64

DR735 Dimensions -



DR735 Wiring Table

PIN	FUNCTION
Α	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



This Direct Replacement Encoder provided by:

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