

Direct Replacement Encoder For Dynapar Rotopulser Model 60



The Accu-Coder[™] DR553 is a direct replacement encoder for the Dynapar Rotopulser Model 60. These encoders are used on lnk Jet printers, cut to length applications, motor drive speed feedback, and a variety of other applications. If you have tried to order the Rotopulser 60 you may have encountered long lead times. The DR553 from Encoder Products Company is the perfect substitution for the Rotopulser 60, and can be delivered today!

> Order The DR553 As A Direct Replacement Encoder For Videojet **Triumph and Excel Printers!**

Typical Price: \$700 to \$900

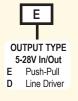
DR553 Price: \$545 Additional Discounts Available For Volume Orders.

Blue type indicates price adder options. Contact Customer Service for details















Model	DR553	CPR O	ptions

0001	0002	0004	0005	0006	0010	0012	0020	0025
0040	0045	0050	0060	0064	0100	0120	0125	0128
0150	0180	0192	0200	0240	0250	0256	0300	0360
0400	0500	0512	0530	0600	0625	0720	0800	0900
1000	1024	1200	1270	1500	1800	2000	2400	2500

Call EPC Customer Service Today At 1-800-366-5412 To Order The DR553!

The Accu-Coder™ DR553 Features:

- 3.5" servo hub on a rugged 2" encoder
- 1/2" stainless steel shaft
- Quadrature with index
- Resolutions up to 2500 CPR
- Line Driver and Push-Pull outputs
- 5 to 28 VDC
- 6-pin and 10-pin side mount MS connectors
- Sealing up to IP64

The Accu-Coder[™] Advantage

- · This encoder is available and ready for quick delivery!
- Huge savings in price comparison!
- The accuracy, reliability, and quality that only come from an Accu-Coder™
- A 3-year satisfaction guaranteed warranty!







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Model DR553 Specifications

Electrical

Input Voltage......4.75 to 28 VDC max for temperatures up to

70° C

from the encoder mounting face. See *Waveform Diagrams* below.

Output TypePush-Pull- 20 mA max per channel Line Driver- 20 mA max per channel (Meets RS 422 at 5 VDC supply)

Index.....Occurs once per revolution. See Waveform Diagrams below.

Freq Response......Up to 100 kHz.

Noise Immunity.......Tested to BS EN61000-4-2; IEC801-3; BS EN61000-4-4; DDENV 50141; DDENV

50204; BS EN55022 (with European compliance option); BS EN61000-6-2; BS EN60081.2

EN50081-2

Rise Time.....Less than 1 microsecond
Accuracy......Instrument and Quadrature Error: For

200 to 1999 CPR, 0.017° mechanical (1.0 arc minutes) from one cycle to any other cycle. For 2000 to 2500 CPR, 0.01° mechanical (0.6 arc minutes) from one cycle to any other cycle.

Mechanical

Max Shaft Speed.....8000 RPM. Higher shaft speeds may be achievable, contact Customer Service.

Shaft Size0.50"

Shaft Rotation.....Bi-directional

Radial Shaft Load.....80 lb max. Rated load of 20 to 40 lb for bearing life of 1.5 x 10^9 revolutions

Axial Shaft Load 80 lb max. Rated load of 20 to 40 lb for bearing life of 1.5 x 10⁹ revolutions

Starting Torque1.0 oz-in typical with IP64 seal or no seal

Moment of Inertia5.2 x 10⁻⁴ oz-in-sec²

Max Acceleration 1 x 10⁵ rad/sec²

Connector Type6-, and 10-pin side mount MS connector Housing......All metal construction with black protective

coating

Bearings.....Precision ABEC ball bearings

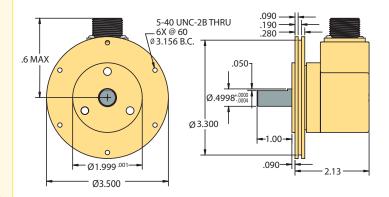
Mounting......3.5" servo mount

Weight.....11 oz typical

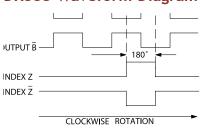
Environmental

Operating Temp0° to 70° C for standard models Storage Temp25° to +85° C Humidity98% RH non-condensing Vibration20 g @ 58 to 500 Hz Shock75 g @ 11 ms duration Sealingstandard, or IP64

DR553 Dimensions



DR553 Waveform Diagram



NOTE: ALL DEGREE REFERENCES ARE ELECTRICAL DEGREES
LDSIGC

Line Driver and Push Pull Waveform

The Line Driver output waveform is shown in the figure to the left. Output A leads Output B for clockwise rotation of the encoder shaft as viewed from the encoder mounting face. Push Pull outputs do not include complimentary channels.

DR553 Wiring Table

Function	6-Pin MS (E)	10-Pin MS (D)	10-Pin Cable Assy			
COM	С	С	Black 7*			
+VDC	Е	Е	White _			
Α	В	В	Red _¬ *			
A'		G	Black _			
В	D	D	Blue ¬*			
B'		Н	Black J			
Z	Α	Α	Green ¬*			
Z'		1	Black _			
Shield	F	F	Bare			
Not Used		J				

*NOTE: Cable is twisted pairs. Wire pairs indicated by brace (])

Mating Connectors

To order a 6-pin MS mating connector order stock # 080014

To order a 10-pin MS mating connector order stock # 080113

Cordsets

To order a 10-pin MS cable assemby order stock # 410C-xxx-HV-R-N-SPEC553 xxx=cable length in feet

Don't see the exact encoder you need replaced?

Call 1-800-366-5412 and a friendly Customer Service Representative will be happy to cross-reference any encoder that you need replaced.