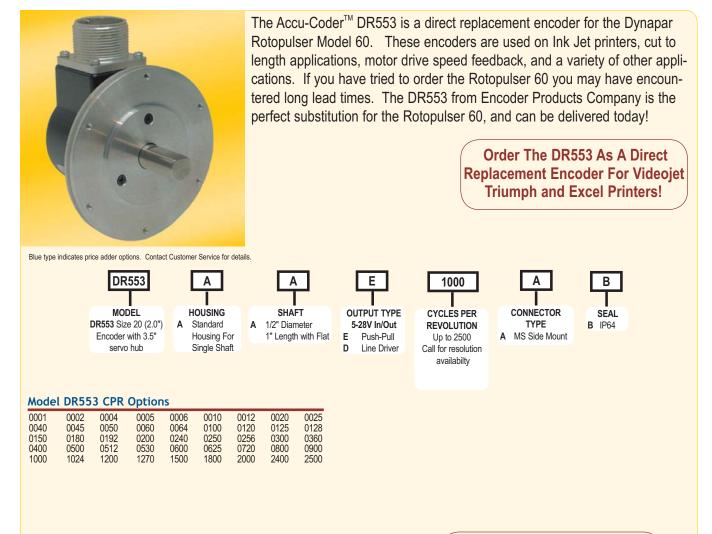
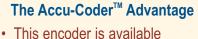


# DR553 Direct Replacement Encoder For Dynapar Rotopulser Model 60



## The Accu-Coder<sup>™</sup> 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



- and ready for quick delivery!
- *Huge savings* in price comparison!
- The accuracy, reliability, and quality that only come from an Accu-Coder<sup>™</sup>
- A 3-year satisfaction guaranteed warranty!







## DR553 Direct Replacement Encoder For Dynapar Rotopulser Model 60

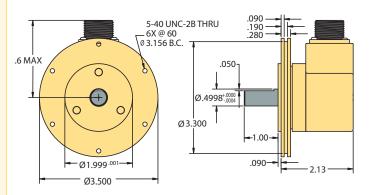
## Model DR553 Specifications

Electrical				
	.4.75 to 28 VDC max for temperatures up			
input voitage	to			
	70° C			
Input Current	.100 mA max with no output load			
Input Ripple	.100 mV peak-to-peak at 0 to 100 kHz			
Output Format	Incremental- Two square waves in			
	quadrature with channel A leading B			
	for clockwise shaft rotation, as viewed			
	from the encoder mounting face. See			
	Waveform Diagrams below.			
Output Type	Push-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				
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			
Cumana atau	EN50081-2 .180° (±18°) electrical at 100 kHz output			
	.90° (±22.5°) electrical at 100 kHz output			
	.67.5° electrical at 100 kHz output			
	Less than 1 microsecond			
	Instrument and Quadrature Error: For			
/ 10001009	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 Size	.0.50"			
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 <sup>9</sup> revolutions			
Axial Shaft Load	.80 lb max. Rated load of 20 to 40 lb for			
	bearing life of 1.5 x 10 <sup>9</sup> revolutions			
Starting Torque	.1.0 oz-in typical with IP64 seal or no seal			
Moment of Inertia	.5.2 x 10 <sup>-4</sup> oz-in-sec <sup>2</sup>			
Max Acceleration				
	.6-, and 10-pin side mount MS connector All metal construction with black protective			
	All metal construction with black protective coating			
	.Precision ABEC ball bearings			
Mounting	3.5" servo mount			
Weight				
weigint	. TT UZ typical			

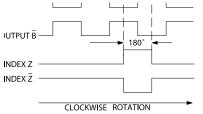
#### Environmental

Operating Temp0° to 70° C for standard n	nodels
Storage Temp25° to +85° C	
Humidity98% RH non-condensing	
Vibration	
Shock	
Sealingstandard, or IP64	

### DR553 Dimensions



### DR553 Waveform Diagram



NOTE: ALL DEGREE REFERENCES ARE ELECTRICAL DEGREES

#### 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	E	E	White -
Α	В	В	Red <sub>7</sub> *
A'		G	Black
В	D	D	Blue <sub>7</sub> *
B'		Н	Black _
Z	А	А	Green 7*
Z'			Black _
Shield	F	F	Bare
Not Used		J	ted naine Mine

#### **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

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