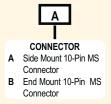


DR651 Direct Replacement Encoder For DRC 29L



The Accu-Coder[™] DR651 is EPC's Direct Replacement Encoder for the DRC 29L. DR651 is a heavy duty, rugged 2.0" encoder designed for harsh industrial environments such as machine tools and robotics. The DR651 is an exact mechanical fit to the DRC 29L; a large shafted encoder with Servo hub, CPR, and Connector mount options. But the similarities stop there. The DR651 can withstand 80 lb axial load, 60 lb radial load, and 75 g of shock, as compared to the DRC 29L's 30 lbs of load and 50 g of shock. Select the DR651 for a more durable rugged replacement for the hard to find, DRC 29L.







Model DR651 CPR Options

0025	0050	0100	0128	0150	0160	0200	0250	0256
0300	0360	0400	0500	0512	0600	0625	0635	0720
0800 1800	0900 2000	1000 2500	1024 5000	1200 10,000	1250	1270	1440	1500

The Accu-Coder™ DR651 Features:

- Rugged 2" industrial encoder with 2.796" Servo Hub
- · 0.3748" shaft with flat made from 303 Stainless
- Quadrature with index
- Line Driver output
- 5 to 28 VDC Input Voltage
- Side or end mount 10-pin MS connector
- Frequency up to 100 kHZ
- Sealing to IP66



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!





DR651 Direct Replacement Encoder For DRC 29L

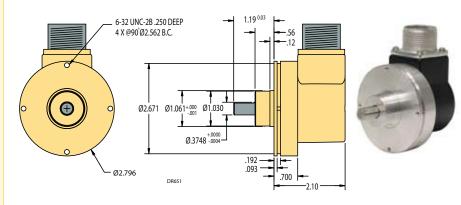
Model DR651 Specifications

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Electrical	
	4.75 to 28 VDC max for temperatures up to
input voitage	70° C
Input Current	100 mA max with no output load
	100 mV peak-to-peak at 0 to 100 kHz
Output Format	Incremental- Two square waves in quadra-
	ture with channel A leading B for clockwise
	shaft rotation, as viewed from the encoder
	mounting face. See Waveform Diagrams
0 / / T	below.
Output Type	Line Driver- 20 mA max per channel
	(Meets RS 422 at 5 VDC supply)
Index	Occurs once per revolution. See
	Waveform Diagram 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
	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
Accuracy	Instrument and Quadrature Error: 0.017°
	mechanical (1.0 arc minutes) from one
	cycle to any other cycle. (Total Optical
	Encoder Error = Instrument + Quadrature +
	Interpolation)
Mechanical	
Max Shaft Speed	8000 RPM. Higher shaft speeds may be
	achievable, contact Customer Service.
Shaft Size	
	303 Stainless Steel
Shaft Rotation	
Radial Shaft Load	60 lb max. Rated load of 15 to 30 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 10 ⁹ revolutions
	3.0 oz-in typical with IP66 shaft seal
	5.2 x 10 ⁻⁴ oz-in-sec ²
Max Acceleration	
	Side or end mount 10-pin MS
Housing	All metal construction with black protective
	coating
	Precision ABEC ball bearings
	2.796" Servo Hub
Weight	1 lb typical

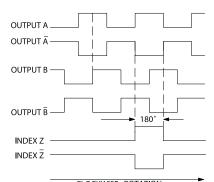
Environmental

Operating Temp0° to 70° C
Storage Temp25° to +85° C
Humidity98% RH non-condensing
Vibration20 g @ 58 to 500 Hz
Shock
SealingIP66

DR651 Dimensions -



DR651 Waveform Diagram



CLOCKWISE ROTATION NOTE: ALL DEGREE REFERENCES ARE ELECTRICAL DEGREES

DR651 Wiring Table

Pin	Function		
Α	Α		
В	Α'		
С	В		
D	Β'		
E	Z		
F	Z'		
I	+VDC		
J	COM		