

# DR274



Direct replacement encoder for the Microcut Controller for Perfecta Printing Presses



For many years, Encoder Products Company supplied an encoder to Goldengate Microsystems for their "Microcut" Controller, often used as backstop gauges in the printing and binding industry. Perfecta USA manufactures printing presses that use this Microcut Controller. With the RJ45 connector, replacement of this encoder is usually as simple as just plugging it in.

## Features:

- High precision 1.5" incremental encoder
- Stainless steel 3/8" shaft
- Quadrature A & B with reference channels
- 500 CPR
- Line Driver output
- 4.5" of cable with RJ45 phone jack
- 3 hole servo mount 120° apart

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

## Connector options

Encoders produced for Goldengate Microsystems included both male and female connectors. Because DR274 is offered with either a male or female connector, be sure to select the proper connector to match your application.



DR274-01



DR274-02

## The Accu-Coder® Advantage

- US-based since 1969
- Industry-best 3-year warranty
- Exceptional customer service
- Fast lead times – contact us for lead times and expedite options

**ACCU»»CODER®**  
by Encoder Products Company

# DR274



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## MODEL DR274 SPECIFICATIONS

### Electrical

Input Voltage	4.75 to 28 VDC max for temperatures up 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	Line Driver – 20 mA max per channel (meets RS 422 at 5 VDC supply)
Freq Response	100 kHz
Noise Immunity	Tested to BS EN61000-4-2; IEC801-3; BS EN61000-4-4; DDENV 50141; DDENV 50204; BS EN50222 (with European compliance option); BS EN61000-6-2; BS EN50081-2
Symmetry	180° (±18°) electrical at 100 kHz output
Quad Phasing	90° (±22.5°) electrical at 100 kHz output
Min Edge Sep.	67.5° electrical at 100 kHz output
Rise Time	Less than 1 microsecond
Accuracy	0.017° mechanical (1.0 arc minutes) from one cycle to any other cycle.

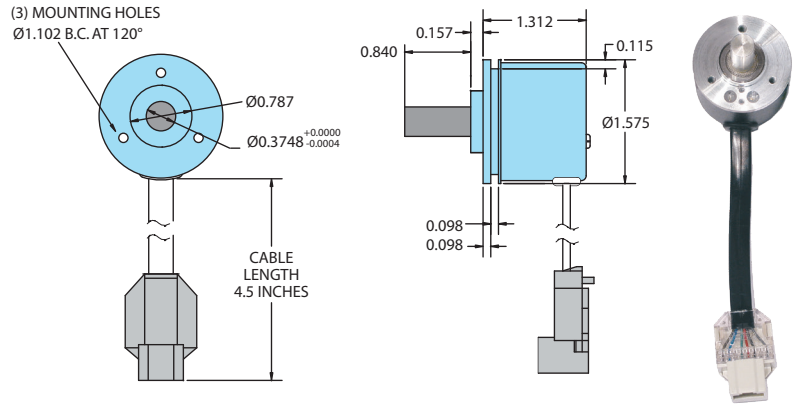
### Mechanical

Max Speed	7500 RPM. Higher shaft speeds may be achievable, contact Customer Service.
Shaft Size	0.375" outside diameter
Shaft Rotation	Bi-directional
Radial Shaft Load	5 lb
Axial Shaft Load	3 lb
Starting Torque	0.14 oz-in typical 4.0 oz-in typical for -40° C operation
Moment of Inertia	$2.8 \times 10^{-4}$ oz-in-sec <sup>2</sup>
Max Acceleration	$1 \times 10^5$ rad/sec <sup>2</sup>
Electrical Conn.	4.5" cable with RJ45 connector
Housing	Black non-corrosive finish
Bearings	Precision ABEC ball bearings
Mounting	1.570" Servo mounting face; see dimensions
Weight	3.10 oz typical

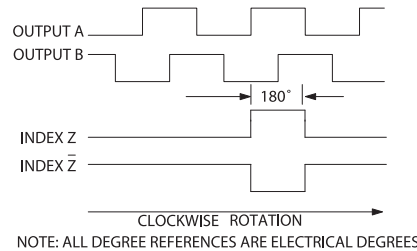
### Environmental

Operating Temp	0° to 70° C
Storage Temp	-25° to 85° C
Humidity	98% RH non-condensing
Vibration	10 g @ 58 to 500 Hz
Shock	50 g @ 11 ms duration

## DR274 Dimensions



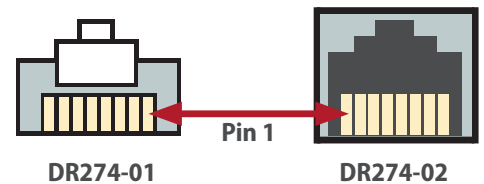
## DR274 Waveform Diagram



NOTE: ALL DEGREE REFERENCES ARE ELECTRICAL DEGREES

## DR274 Wiring Table

Function	Pin
+VDC	1
A	4
B	6
Z	8
Z'	5
Not Used	3, 7
Ground	2



**Don't see the exact encoder you need?**

Call (800) 366-5412 and our Technical Sales Department will cross-reference your encoder to the correct EPC model.