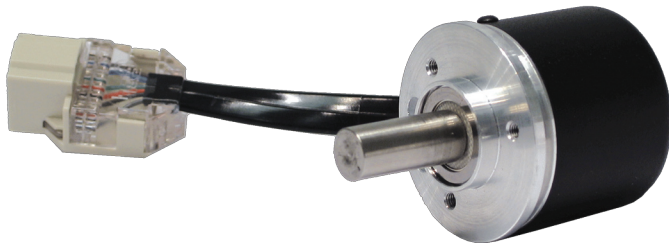


# DR274

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 1200 apart

**Price: \$385**

Additional discounts available for volume orders.

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

- ✓ Get this encoder FAST – you'll get your encoders in days, not weeks.
- ✓ Huge savings in price comparison – the DR274 is your economical solution
- ✓ The accuracy, reliability, and quality that only come from an Accu-Coder™
- ✓ Industry Best 3-year warranty!

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

# DR274

Direct Replacement Encoder for the Microcut Controller for Perfecta Printing Presses



## 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 EN55022 (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.

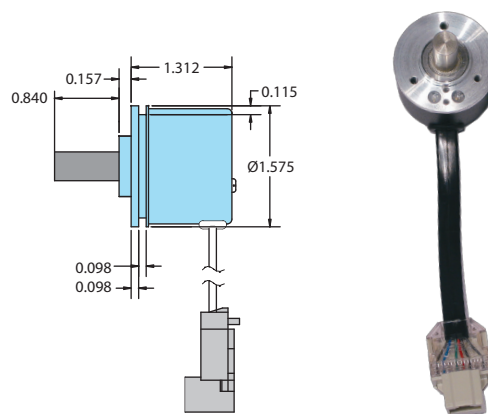
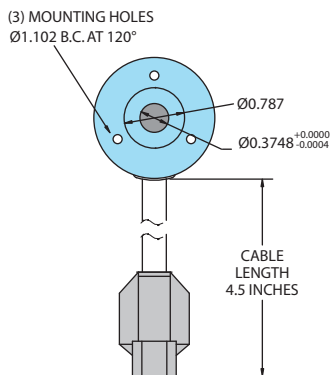
### Mechanical

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 x 10 <sup>-4</sup> oz-in-sec <sup>2</sup>
Max Acceleration .....	1 x 10 <sup>5</sup> 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

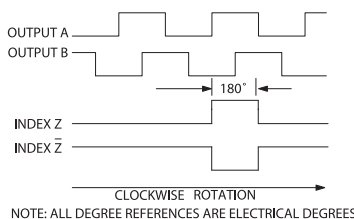
### Environmental

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



## DR274 Wiring Table

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

