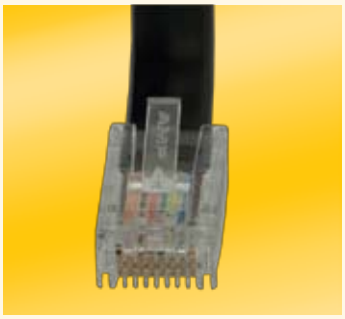
DR274

Direct Replacement Encoder For The Microcut Controller- Perfecta Printing Presses

For many years Encoder Products Company supplied an encoder to Goldengate Microsystems for their "Microcut" Controller, often used as backstop guages 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.



DR274-01

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.

DR274-02

The Accu-Coder™ DR274 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

The Accu-Coder™ Advantage

- Get this encoder **FAST!**
- ***Huge savings*** in price comparison!
- The accuracy, reliability, and quality that only come from an Accu-Coder™
- Industry Best **3-year** warranty!

ACCU-CODER™ by Encoder Products Company

MADE IN U.S.A.

DR274

Direct Replacement Encoder For The Microcut Controller- 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.

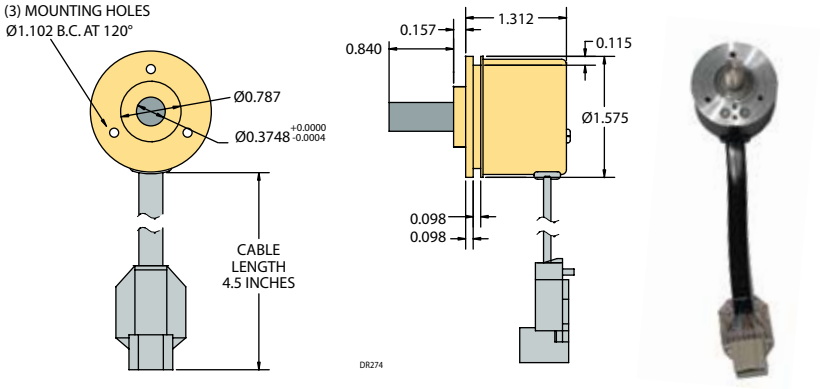
Mechanical

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	2.8×10^{-4} oz-in-sec^2
Max Acceleration	1×10^5 rad/sec^2
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

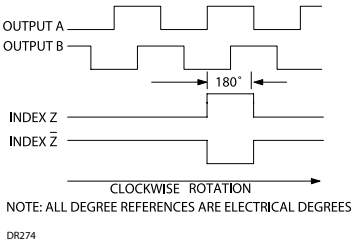
Environmental

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

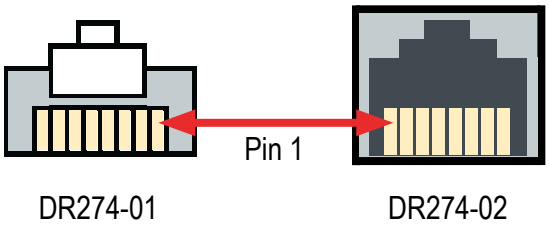


DR274 Waveform Diagram



DR274 Wiring Table

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



This Direct Replacement Encoder provided by: