DR274

Direct replacement encoder for the Microcut Controller for Perfecta Printing Presses





Features:

- · High precision 38.1mm incremental encoder
- Stainless steel 3/8" shaft
- Quadrature A & B with reference channels
- 500 PPR
- Line Driver output
- 114mm of cable with RJ45 phone jack
- 3 hole servo mount 120° apart

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.

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.



The Accu-Coder[™] Advantage

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







DR274-02

Don't see the exact encoder you need?

Call +44(0)1978 262100 and our Technical Sales Department will cross-reference your encoder to the correct BEPC model.

Rev

Direct replacement encoder for the Microcut **Controller for Perfecta Printing Presses**



DR274 Specifications

FI	lectrical	
	Coulou	

..4.75 to 28 VCC max for temperatures up Input Voltage...... to 70° C

4.75 to 24 VCC for temperatures between

70° C to 100° C

Input Current. .100 mA max with no output load Input Ripple100 mV peak-to-peak at 0 to 100 kHz Incremental- Two square waves in Output Format quadrature with channel A leading B for clockwise shaft rotation, as viewed from the encoder mounting face. See Waveform Diagrams below.

Output Types.. Line Driver- 20 mA max per channel (Meets RS 422 at 5 VCC supply)

Freq Response.. .Up to 1 MHz

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 Symmetry .. Quad Phasing...... .90° (±22.5°) electrical at 100 kHz output Min Edge Sep...... ..67.5° electrical at 100 kHz output

.....Less than 1 microsecond Rise Time.

.0.017° mechanical (1.0 arc minutes) from Accuracy. one cycle to any other cycle.

Mechanical

Max Shaft Speed......7500 RPM. Higher shaft speeds may be

achievable, contact Customer Service.

.0.375" Diameter Shaft Size.

Shaft Tolerance......g6, Sliding fit for H7 host bore

User Shaft Tolerances

Radial Shaft Load2.25 Kg max Axial Shaft Load 1.36 Kg max

Starting Torque9.886 x 10-3 Nm typical

2.824 x 10⁻² Nm typical for -40° C

operation

Max Acceleration 1 x 10⁵ rad/sec²

.2M cable (foil and braided shield, 24

SWG conductors) 5 Pin, 6 Pin or 8 Pin connectors available - see Appendix data sheet for connector cover options

Housing. .Black non-corrosive finish .Precision ABEC ball bearings Bearings.

.3 x M3 on a 28mm PCD Mounting.

Weight. .100gm typical

Environmental

Sealing

Operating Temp...... .0° to 70° C for standard models

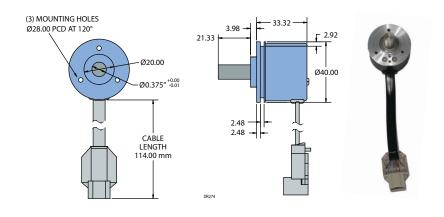
-40 to 70° C for low temperature option 0° to 100° C for high temperature option (0° to 85° C for certain resolutions, see

PPR Options.)

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

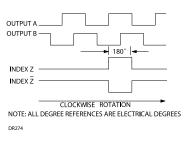
.IP50 standard

DR274 Dimensions



All dimensions are in mm with a tolerance of ±0.127mm or ±0.254 unless otherwise specified

Waveform Diagram •



Wiring Table

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

