



Model DR86A is an extra heavy duty unit that employs a highly reliable Opto-ASIC encoder module mounted within a rugged mechanical housing. The heavy duty sealed bearings, together with double O-ring sealing, makes this encoder a serious and reliable alternative to a wide range of machine tool encoders, and at an economical price.

Common Applications

Motion Control Feedback, Conveyors, Elevator Controls, Machine Control, Food Processing, Process Control, Robotics, Material Handling, Textile Machines

Replaces

Fanuc, Sumtak, Tamagawa, Koyo, Kwangwoo

Price: \$750

Additional discounts available for volume orders.

Features:

- Rugged All Metal Housing
- 68 mm Flange Mount or Servo Flange
- 1024 CPR*
- 17-Pin MS Style Connector
- IP65 Double O-ring Seal
- · Line Driver Output
- 15 mm Stainless Steel Shaft

*Other CPRs may be available. Contact Customer Service.

DR86A-S2-01 1024

CPR

1024

ORDER NUMBER

DR86A-F2-01

The Accu-Coder[™] Advantage

- ✓ Get this encoder FAST you'll get your encoders in days, not weeks.
- ✓ Huge savings in price comparison the DR86A is your economical solution
- ✓ The accuracy, reliability, and quality that only come from an Accu-Coder™
- ✓ Industry Best 3-year warranty!





Model DR86A Specifications

Electrical

Input Voltage 4.75 to 24 VCC max for temperatures up to 70° C

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)

Index......Occurs once per revolution. The index is
Ungated. See Waveform Diagrams below.

Freq Response........... Up to 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° (\pm 18°) electrical at 100 kHz output Quad Phasing 1 to 2540 PPR: 90° (\pm 22.5°) electrical at

100 kHz output

Min Edge Sep 1 to 2540 PPR: 67.5° electrical at 100 kHz

output

Rise Time..... Less than 1 microsecond

Accuracy......Instrument and Quadrature Error: For 1024CPR, 0.017° mechanical (1.0 arc minutes) from one cycle to any other

cycle

Mechanical

Max Shaft Speed 3600 RPM. Higher shaft speeds may be achievable, contact Customer Service

Shaft Size 15 mm

Shaft Material 303 stainless steel Shaft Rotation Bi-directional

Radial Shaft Load 35 kg max

Axial Shaft Load 35 kg max

Starting Torque 2.118 x 10-2 Nm typical

Max Acceleration...... 1 x 105 rad/sec2

Electrical Conn......... 17-pin MS Style

Housing..... Anodized Aluminium

Bearings Precision ABEC ball bearings

Mounting Square flange with 4 Holes 5.50 mm Dia

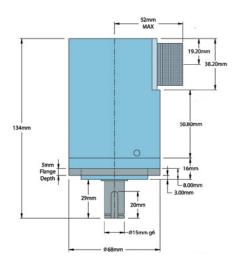
on a 71.19 mm Bolt Circle (B.C.) Servo flange with 4 Holes M3 x 5.00

deep on a 60 mm Bolt Circle (B.C.)

Weight 800 gms typical

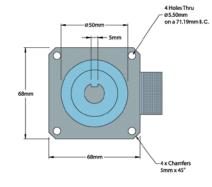
Environmental

DR86A Dimensions

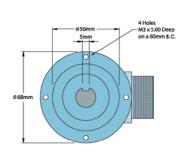




F2 (Flange Mount)



S2 (Servo Flange)



DR86A Wiring Table

17-Pin Conn	Function
Α	Α
В	Z
C	В
D	
E	
F	
G	
Н	+VCC
J	
K	0 Volts
L	
М	
N	A'
Р	Z'
R	B'
S	
Ţ	

DR86A Waveform Diagram

