## DR86A

# **Extra Heavy Duty Machine Tool Encoder**



#### **Features**

Model DR86A is an extra heavy duty unit which 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 advantageous 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

Order Number	<u>CPR</u>
DR86A-01	1024

## The Accu-Coder™ DR86A Features:

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

# The Accu-Coder<sup>™</sup> Advantage

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



<sup>\*</sup>Other CPR's may be available. Contact Customer Service.



# **Extra Heavy Duty Machine Tool Encoder**

# **Model 86A Specifications**

EI	ectrical

Input Voltage 4.75 to 24 VCC 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. Line Driver- 20 mA max per channel (Meets RS Output Types. 422 at 5 VCC supply) Occurs once per revolution. The index is Index

Ungated. See Waveform Diagrams below.

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

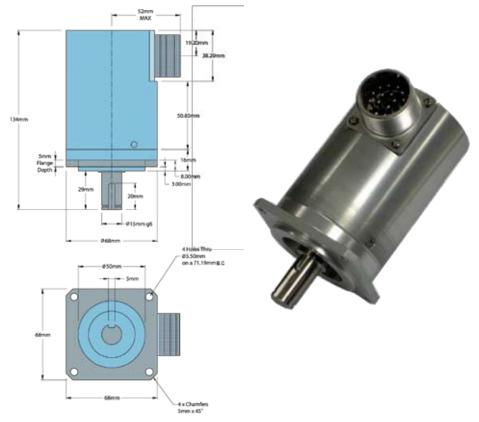
#### Mechanical

.3600 RPM. Higher shaft speeds may be Max Shaft Speed 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 .2.118 x 10<sup>-2</sup> Nm typical Starting Torque .. .1 x 10<sup>5</sup> rad/sec<sup>2</sup> Max Acceleration . .17-pin MS Style Electrical Conn .. Housing Anodized Aluminium Precision ABEC ball bearings Bearings

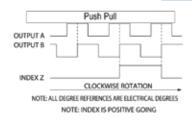
Mounting ......Square Flange with 4 Holes 5.50 mm Dia on a 71.19 mm Bolt Circle (B.C.)

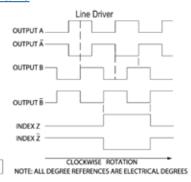
Weight .....800 gms typical

#### Environmental



## **Waveform Diagrams**





## Wiring Table

17-Pin Conn	Function
Α	Α
В	Z
С	В
D	
Е	
F	
G	
Н	+VCC
J	
K	0 Volts
L	
М	-
N	A'
Р	Z'
R	B'
S	
T	