

## **※ ISC3004 SERIES**

Shaft diameter  $\Phi 4$  mm or  $\Phi 6$  mm , clamping flange, housing diameter  $\Phi 30$  mm.

Low price at high performance, small volume, light weight, easy for installing,

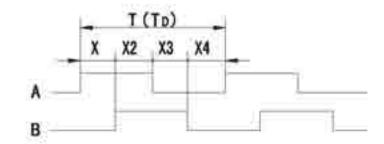
#### **Applications:**

Measure the speed, and measure the distance, shoe making machines, molding machines,

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#### **Output waveform**

90° Output phase difference, CW rotation (CW rotation as seen from fit surface)



Square-wave accuracy: X1+X2=1/2T ± 1/12T

 $X_3+X_4=1/2T \pm 1/12T$ 

Pitch error of period: ±0.01T

Pitch error of phase position: ≤1/18T

Period of pulses: T=360° /N (N : output pulses)
Signal accuracy: Xn=1/4T ± 1/12T (n=1, 2, 3, 4)

A leads B clockwise when viewing the encoder shaft end,

Usually, ISC3004 don't have Z phase.



#### > TECHNICAL SPECIFICATIONS

rer output A, Ā, B, B phase) ≤120mA 0~80KHz 90° ± 45° 7-12V DC, 12-24V DC 85%Vcc, V <sub>L</sub> ≤0.3V
0~80KHz 90° ± 45° -12V DC, 12-24V DC 85%Vcc, V <sub>L</sub> ≤0.3V
90° ± 45° -12V DC, 12-24V DC 85%Vcc, V <sub>L</sub> ≤0.3V
7-12V DC, 12-24V DC 85%Vcc, V <sub>L</sub> ≤0.3V
85%Vcc, V <sub>L</sub> ≤0.3V
200, 300, 360, 500 of pulse available on request
ollector NPN, Push , Line driver(5V DC only)
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Speed without sealing	3000rmp
Rotor moment of inertia	Appr. 3.5x10°Kgm²
Starting torque without sealing	≤2.0x 10 <sup>-3</sup> Nm (+25°C)
Maximum load permitted on shaft	Radial 20N, Axial 10N
Shock resistance	980m/s², 6ms, 2 times each on XYZ
Vibration proof	50m/s², 10~200Hz, 2 hours each on XYZ
Working life	MTBF≥20000h (+25°C, 2000rpm)
Weight	Appr. 60g (with 0.5 meter cable)

ENVIRONMENTAL SPECIFICATIONS				
Working humidity	30~85% (No condensation)			
Storage temperature	-40℃~100℃			
Working temperature	-25℃~85℃			
Protection class	IP54			

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### Terminal assignment

Signal	+5V	0V	SIG A	SIG A	SIG B	SIG B	Shield
Cable Color	Red	Black	Green	Brown	White	Grey	N.C

### Ordering code

ISC3004	- 901	E	360	В	- 5	L
Series	Sequence	Connection	Number	Output	Supply	Output
	Number		of Pulses	Signals	Voltage	Circuit

Series: ISC3004, Axial cable: E, Number of pulses: 360 p/r, Output signals: AABB, Supply voltage: 5V DC, Output circuit: Line driver, Record: ISC3004-901E360B-5L

# Dimensions

