

ISC3004 SERIES ×

Shaft diameter Φ4 mm or Φ6 mm, clamping flange, housing diameter Φ30 mm.

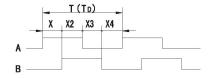
Low price at high performance, small volume, light weight, easy for installing,

Applications:

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

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

ELECTRICAL SPECIFICA	TIONS		
Output wave	Square wave		
Output signals	A, B, (Line driver output A, A, B, B phase)		
Current consumption	≤120mA		
Response Frequency	0~80KHz		
Output phase difference	90° ± 45°		
Supply voltage	5V DC, 7-12V DC, 12-24V DC		
Signal level	V _H ≥85%Vcc, V _L ≤0.3V		
Number of pulses	100, 200, 300, 360, 500 (Other number of pulse available on request)		
Output circuit	Open collector NPN, Push pull, Voltage, Line driver(5V DC only)		
MECHANICAL SPECIFICATIONS			
Speed without sealing	3000rmp		
Data assessed of leastle Asses 0 E-406Kess2			

MECHANICAL SPECIFIC	ATIONS
Speed without sealing	3000rmp
Rotor moment of inertia	Appr. 3.5x10 ^e Kgm²
Starting torque without sealing	≤2.0x 10³Nm (+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 30~85% (No condensation) Working humidity Storage temperature -40℃~100℃ Working temperature -25℃~85℃ Protection class IP54

Terminal assignment

Signal	+5V	0V	SIG A	SIG A	SIG B	SIG B	Shield
Cable Color	Red	Black	Green	Brown	White	Grey	N.C
Note: Shield is attached to connector housing, 0.5 meter cable lengths (other cable lengths on order).							

Ordering code

ISC3004	<u> </u>	E	360	В	5	L
Series	Sequence Number	Connection	Number of Pulses	Output Signals	Supply Voltage	Output 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

