

X 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,

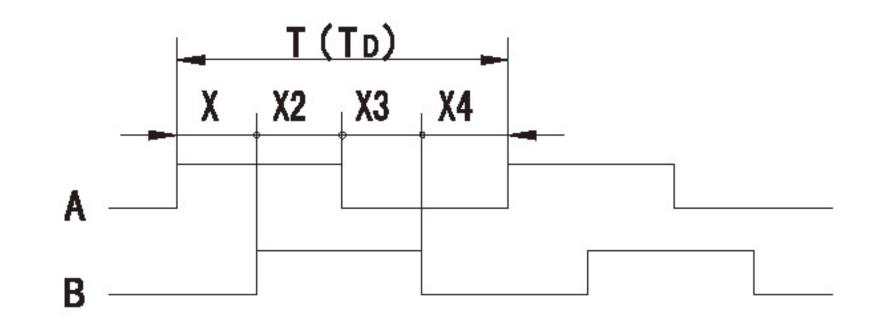
Applications:

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

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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

TECHNICAL SILCHI					
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				
Rotor moment of inertia	Appr. 3.5x10 ⁻⁶ Kgm ²				
Starting torque without sealing	≤2.0x 10 ⁻³ 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°C~100°C				
Working temperature	-25℃~85℃				

IP54

Terminal assignment

Signal	+5V	0V	SIG A	SIG Ā	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).								

Protection class

Ordering code

ISC3004	<u>901</u>	E	360	B	5	L
Series	Sequence	Connection	Number of Pulses	Output	Supply	Output

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

