*** ISC3806 SERIES**

Shaft diameter Φ6 mm or Φ8 mm, clamping flange, housing diameter @38 mm.

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

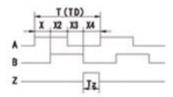
Applications:

Measure the distance, stop dog positioning, curtained door, textile machines



Output waveform

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



Square-wave accuracy: X₄+X₃=1/2T ± 1/12T X,+X,=1/2T ± 1/12T

Pitch error of period: ±0.01T Pitch error of phase position: ≤1/18T Z phase: Tz =1/4T (1T, 1/2T, 1/4T...)

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, The position of Z phase against A, B phase is not specified.



TECHNICAL SPECIFICATIONS

Output wave	Square wave				
Output signals	A, B, Z,(Line driver output A, A, B, B, Z, Z phase				
Current consumption	≤120mA				
Response Frequency	0~100KHz				
Output phase difference	90° ± 45°				
Supply voltage	5V DC, 5-12V DC, 12-24V DC				
Signal level	V.⇒85%Vcc V.≤0.3V				
Number of pulses	10, 15, 20, 30, 40, 50, 60, 100, 120, 125, 150, 180, 200, 240, 250, 256, 300, 360, 400 480, 500, 512, 600, 720, 740, 800, 900, 960 1000, 1024, 1200, 1250, 1440, 1500, 1800, 2000, 2048, 2500(Other number of pulse available on request)				
Output circuit	Open collector NPN, Push pull, Line driver, Voltage				
MECHANICAL SPECIFIC	ATIONS				
Speed without sealing	5000rmp				
Rotor moment of inertia	Appr. 3.5x10 ⁴ Kgm ²				
Starting torque without sealing	≤1.5x 10°Nm (+25°C)				
Maximum load permitted on shaft	Radial 20N, Axial 10N				
Shock resistance	980m/s³, 6ms, 2 times each on XYZ				
Vibration proof	50m/s², 10~200Hz, 2 hours each on XYZ				
Working life	MTBF≥25000h (+25°C, 2000rpm)				
Weight	Appr. 130g (with 0.5 meter cable)				
ENVIRONMENTAL SPEC	CIFICATIONS				
Working humidity	30~85% (No condensation)				
Storage temperature	-40°C−100°C				
Working temperature	-25°C~85°C				
TTO THE SECTION OF STATE OF					

Terminal assignment

Signal	+5V	0V	SIGA	SIGA	SIG B	SIG B	SIG Z	SIG Z	Shield
Cable Color	Red	Black	Green	Brown	White	Grey	Yellow	Orange	N.C

Ordering code

ISC3806	— ноз	G	600	BZ3	- 5-12	С
Series	Sequence Number	Connection	Number of Pulses	Output Signals	Supply Voltage	Output Circuit

Series: ISC3806, Radial cable: G, Number of pulses: 600 p/r, Output signals: ABZ, Tz=1/4T, Supply voltage: 5-12V DC, Output circuit: Open collector NPN, Record: ISC3806-H03G600BZ3-5-12C

Dimensions

