

* ISC5810 SERIES

Shaft diameter Φ10 mm, clamping flange, housing diameter Φ58 mm.

Made from encoder module, high stability, good anti-interference, long working life.

Connector:

Cable axial, Cable radial, Plug axial, Plug radial.

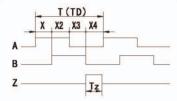
Applications:

Control of transport vehicles, print machines, fork truck, CNC- tooling- 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 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

H.					
ELECTRICAL SPECIFICAT	IONS				
Output wave	Square wave				
Output signals	A, B, Z,(Line driver output A, A, B, B, Z, Z phase				
Current consumption	≤180mA				
Response Frequency	0~120KHz				
Output phase difference	90° ± 45°				
Supply voltage	5V DC, 5-12V DC, 12-24V DC				
Signal level	V _H ≥85%Vcc, V _L ≤0.3V				
Number of pulses	100, 120, 125, 150, 180, 200, 250, 256, 300, 360, 400, 500, 512, 600, 900, 1000, 1024, 1200, 1800, 2000, 2048, 2400, 2500, 3000, 3600(Other number of pulse available on request)				
Output circuit	Open collector NPN, Push pull, Line driver, Voltage				
MECHANICAL SPECIFICA	TIONS				
Speed without sealing	6000rmp				
Rotor moment of inertia	Appr. 8.5x10 ⁻⁶ Kgm ²				
Starting torque without sealing	≤6.0x 10³Nm (+25°C)				
Maximum load permitted on shaft	Radial 35N, 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≥30000h (+25°C, 2000rpm)				
Weight	Appr. 240g (9 pin plug radial)				
ENVIRONMENTAL SPECI	FICATIONS				
Working humidity	30~85% (No condensation)				
Storage temperature	-40℃~100℃				
Working temperature	-25℃~85℃				
Protection class	IP54				

Terminal assignment

Signal	+5V	OV	SIG A	SIG A	SIG B	SIG B	SIG Z	SIG Z	Shield
Cable Color	Red	Black	Green	Brown	White	Grey	Yellow	Orange	N.C
7 pin plug	1	4	3	-	5	121	2	-	6
9 pin plug	1	4	5	7	3	6	2	8	9

Ordering code

ISC5810	— 401	С	1800	BZ1 -	12-24	F
Series	Sequence	Connection	Number	Output	Supply	Output
	Number		of Pulses	Signals	Voltage	Circuit

Series: ISC5806, Radial plug: C, Number of pulses: 1800 p/r, Output signals : ABZ, Tz=1T, Supply voltage: 12-24V DC, Output circuit: Push pull, Record: ISC5810-401C1800BZ1-12-24F



